

# A SYMPOSIUM ON "THE TECHNOLOGY OF NMR"

Presented by  
SNM Computer and Instrumentation Councils  
Sheraton World Hotel — Orlando, Florida

## SUNDAY, FEBRUARY 5, 1984

### Indian Room

5 hrs. AMA Category I credit

8:30 **Opening Remarks.** R. Eugene Johnston, *University of North Carolina, Chapel Hill, NC*; Jon J. Erickson, *Vanderbilt University, Nashville, TN*; Michael L. Goris, *Stanford University, Stanford, CA*; Bryan R. Westerman, *University of Arizona, Tucson, AZ*

8:45 **Introduction.** G.A. Johnson, *Duke University Medical Center, Durham, NC*

9:00 **Pulse Sequence Considerations for Computed T<sub>1</sub>, T<sub>2</sub>, and Spin Density Images.** James MacFall—Invited Speaker. *General Electric Medical Systems Group, Milwaukee, WI*

9:30 **Uncertainties in the In Vivo Measurement of Relaxation Parameters.** G. Allan Johnson, Robert Herfkens, Mark A. Brown, *Duke University Medical Center, Durham, NC*; James MacFall, *General Electric Medical Systems, Milwaukee, WI*

10:00 **Break** (refreshments in lobby)

10:30 **A Systematic Approach to Optimization of Pulse Sequences in NMR Imaging by Computer Simulations.** G. Bielke, M. Meves, S. Meindl, A. Bruckner, P. Rinck, W. von Seelen, P. Pfannenstiel, *NMR Research Group, Deutsche Klinik für Diagnostik, Wiesbaden, FRG*

11:00 **NMR Image Synthesis in Realtime.** Stephen J. Riederer, Steven A. Suddarth, Stuart A. Bobman, James N. Lee, Henry Z. Wong, *Duke University Medical Center, Durham, NC*; James MacFall, *General Electric Medical Systems Group, Milwaukee, WI*

11:30 **In Vivo Breast Magnetic Resonance Imaging Using a Prototype Breast Coil.** Paul C. Wang, Carol B. Stelling, Sally S. Mattingly, Deborah E. Powell, *University of Kentucky Medical Center, Lexington, KY*

12:00 **Lunch**

1:30 **An Overview of MR System Design.** David D. Faul—Invited Speaker. *Siemens Medical Systems, Inc., Iselin, NJ*

2:00 **Optimization of Signal-to-Noise Ratio in NMR System Design.** Mark Riehl, *General Electric Medical Systems, Milwaukee, WI*

2:30 **Unified Description of NMR Imaging, Instrumentation, Data Collection Strategies, and Reconstruction Techniques.** Kevin F. King, *University of Wisconsin, Madison, WI*; Paul R. Moran, *Bowman Gray School of Medicine, Winston-Salem, NC*

3:00 **Break** (refreshments in lobby)

3:30 **Gated Cardiology Imaging with NMR Techniques.** W. MacIntyre, R.T. Go, J.K. O'Donnell, H. Yeung, B. Sufka, *Cleveland Clinic Foundation, Cleveland, OH*

4:00 **Council Business Meeting** (Indian)

## MONDAY, FEBRUARY 6, 1984

### Indian Room

5 hrs. AMA Category I credit

8:30 **Overview of NMR Image Reconstruction Principles.** T.M. Peters—Invited Speaker. *Montreal Neurological Institute, Montreal, Quebec, Canada*

9:00 **Some Uses of the Fast Fourier Transform in Medical Imaging.** William G. Hawkins, Peter D. Esser, Philip O. Alderson, *College of Physicians & Surgeons, Columbia University, New York, NY*

9:30 **Three-Dimensional Display of NMR Images.** John D. Austin, B.M.W. Tsui, Stephen M. Pizer, Edward V. Staab, *University of North Carolina, Chapel Hill, NC*

10:00 **Break** (refreshments in lobby)

10:30 **Special Architectural Considerations in Designing an NMR Facility.** W. Pavlicek, W. MacIntyre, J.K. O'Donnell, R.T. Go, *Cleveland Clinic Foundation, Cleveland, OH*

11:00 **Installation of High-Field NMR Systems into Existing Clinical Facilities.** Steven G. Einstein, *Philips Medical Systems, Shelton, CT*; Andrew Maudsley, Sun Ki Mun, Howard Simon, Sadek Hilal, *Columbia Presbyterian Medical Center, New York, NY*; Richard Sano, *Philips Medical Systems, Shelton, CT*; Peter Roeschmann, *Philips Research Laboratory, Hamburg, FRG*

11:30 **Methods For Describing the Uniformity, Resolution, and Contrast of Off-Peak Images.** L. Stephen Graham, Richard La Fontaine, Mark A. Stein, James A. Winter, *VA Medical Center, Sepulveda, CA*

11:45 **Update on SPECT.** Barbara Y. Croft, *University of Virginia, Charlottesville, VA*

12:00 **Lunch**

1:30 **In Vivo Spectroscopic Imaging.** Andrew A. Maudsley—Invited Speaker. *College of Physicians & Surgeons, Columbia University, New York, NY*

2:00 **Imaging True Flow Velocity and All Higher Order Flow Quantities by Phase-Modulation Techniques in NMR Scanners.** Paul R. Moran, *Bowman Gray School of Medicine, Winston-Salem, NC*

2:30 **Flow and Motion in NMR Imaging: A Tutorial Introduction.** Richard E. Wendt, Paul H. Murphy, Joseph J. Ford, R. Nick Bryan, John A. Burdine, *Baylor College of Medicine, St. Luke's Episcopal-Texas Children's Hospitals, and The Texas Heart Institute, Houston, TX*

3:00 **Break** (refreshments in lobby)

3:30 **Radio Frequency Shielding for NMR Imaging Systems.** James A. Graham, Jr. *Keen Corporation, Norwalk, CT*

4:00 **A Universal Pulse Programmer for NMR Imaging.** J.L. Delayre, D. Jenson. *University of Texas Medical School, Houston, TX*

4:30 **Adjourn**

SNM Council members will receive their Programs in December. Others may call or write Registrar, SNM, 475 Park Avenue South, NY, NY 10016; (212)889-0717

# 1983 AUTHOR INDEX

*P preceding a page number indicates an abstract of the Annual Meeting, appearing in the May issue.*

- Abbassi, V, 972  
 Abbou, C, P16  
 Abe, H, 136, P28, P54  
 Abejo, R, P111  
 Abreo, KD, P111  
 Abril, ME, P127  
 Ackers, R, P95  
 Ackerman, R, P70  
 Ackerman, RH, P33, P105  
 Ackermann, B, P112  
 Ackermann, RA, P69  
 Ackery, DM, 1099  
 Acquafredda, H, 563  
 Adams, R, P94, 1089, 1207  
 Adams, TH, P110  
 Adelstein, SJ, 1055, 1164, P122  
 Aessopos, AE, 703, P35  
 af Ugglas, M, 326  
 Ahn, YS, P74  
 Alavi, A, 204, 447, 713, P21, P27, P30, P45, P46, P77, P84, P88, P92, P108  
 Alazraki, N, P64  
 Albertini, A, P115  
 Alburger, PD, P84  
 Alcidi, L, P93  
 Alderson, PO, 977, P31, P36, P58, P59, P70, P75, P78, P84, P100, P125  
 Al-Eid, MA, P74, 1123  
 Alevizaki, C, 174  
 Alevizaki-Harhalaki, M, 174  
 Al-Fayez, AA, P114  
 Ali, A, 748  
 Allen, BT, P60  
 Alpert, NM, 61, P33, P34, P105  
 Al-Sheikh, W, 683, P38  
 Alyea, KA, 373, 916  
 Ambros, HD, P20  
 Ambruso, DR, P47  
 Amico, S, P92  
 Anaise, D, P15  
 Anderson, BG, P55  
 Anderson, GJ, P86  
 Anderson, JR, P79  
 Anderson, KC, P50  
 Anderson, PJ, P41  
 Anderson-Davis, H, P118  
 Anderton, K, P120  
 Angelberger, P, P20  
 Angels, R, P59  
 Antar, MA, P57, P114  
 Appledorn, CR, P82  
 Areeda, J, P18, P34, P53, P58, P114  
 Arliss, J, P75  
 Armas, R, 799, P94  
 Armstrong, KL, P114  
 Arnett, CD, 443, 592  
 Arnstein, NB, P109  
 Aroesty, JM, P87  
 Arreaza, N, 563  
 Asari, H, P15  
 Ascher, NL, P98  
 Ashburn, W, P45, P63  
 Ashkar, FS, P35, P38, P44, P113  
 Askienazy, S, 17, P108  
 Atkins, HL, P8, P15, P99  
 Atlan, H, P109  
 Atwood, E, P18  
 Aumont, MC, P20  
 Aurengo, A, 1135  
 Auth, R, 972  
 Babich, JB, P128  
 Babich, JW, P24, P122  
 Bacharach, SL, P17, 1176  
 Bachvaroff, RJ, P15  
 Bae, JH, P54  
 Bailey, WW, P32  
 Bain, GO, 1012  
 Bairamian, D, P21  
 Bajolet, A, P92  
 Baker, MK, 467, P85  
 Baker, SR, P112  
 Baker, W, P64  
 Bakker, WH, 1099  
 Balachandran, S, P64, 1114  
 Baldeschwieler, JD, 45, P125  
 Bales, D, P46  
 Balint, C, P60, P89  
 Bandyopadhyay, D, P7  
 Barat, JL, 228, P37, P105  
 Barber, HB, P25  
 Bardy, A, P108  
 Barker, F, P14  
 Barnden, LR, 728  
 Barnes, EL, P114  
 Barnes, JW, P24  
 Barnes, WE, P54  
 Baron, JC, 367  
 Barrett, HH, P25, P66  
 Barringer, J, P107  
 Barrio, JR, 370, 515, P12, P70, P89, P106, P121  
 Barry, DI, 17  
 Bartelt, H, P83  
 Barter, SJ, P13  
 Bartholomew, RM, P15, P77, P94, P110  
 Bartlett, RD, P50, P120  
 Basarab, R, P63  
 Bashore, T, P89  
 Basmadjian, GP, P116  
 Bateman, JE, P103  
 Baumgartner, FJ, 515  
 Bautovich, GJ, 970  
 Baxter, JN, P38  
 Baxter, L, P21  
 Bayer, J, P69  
 Bazin, JP, P62  
 Beach, JL, 89, 178, 276, 373, 374, 453  
 Beal, WH, P49, P83  
 Beardsley, MA, P49  
 Beauchamp, G, P100  
 Beaumier, P, P35  
 Beaumier, PL, P14, P116  
 Behrendt, D, 629  
 Beierwaltes, WH, 672, 732, P49, P54, P55, 1127  
 Beihn, RM, P98  
 Bekerman, C, P50  
 Beller, GA, P36, P45  
 Bellis, G, P59  
 Belman, AB, P23  
 Benedetto, AR, P88  
 Benedict, WF, P77  
 Bennett, GW, 231, P67, P75, P125  
 Bennett, LR, P7, 370, P71, P114  
 Bennett, RL, P111  
 Benson, LN, P87  
 Bentley, GE, P24  
 Benua, RS, P112  
 Berger, DE, 110, 1019  
 Berger, G, P20  
 Berger, HJ, P17, P45, P67, P68, P76  
 Bergey, P, P92  
 Bergmann, SR, P5, 130, 380, P19, P20, P59  
 Bergstrom, M, 326, P33  
 Berman, AT, P84  
 Berman, D, P4, P18, P34, P45, P53, P58, P68, P87, P97, P114  
 Bernier, J, P34  
 Bernstein, D, P52  
 Besozzi, MC, P104  
 Bessent, RG, 208  
 Beth, A, P47  
 Bettin, KM, P102  
 Bettinger, WH, 838  
 Bianco, JA, 485, 1205  
 Biello, DR, 2  
 Biersack, HJ, P13, P29, P109, P112  
 Bietendorf, J, P18, P34, P58  
 Biezk, JA, P58  
 Bigler, RE, 408, 431, P52, P90  
 Billingham, MW, P126  
 Billings, J, P23, P95  
 Bird, J, P107  
 Bischoff, PG, 722  
 Bisi, G, P93  
 Bitran, J, P50  
 Bizais, Y, 356, P67, P75, P125  
 Blahd, WH, P92  
 Blasius, KM, P76  
 Blau, M, 66, P5, P23, P95  
 Blafox, MD, 79, 397, 643, P34  
 Bledin, AG, 297  
 Blend, M, P78  
 Block, N, P102  
 Block, PC, P60  
 Bloedow, DC, P10  
 Blomqvist, G, 326  
 Blondheim, DS, P88  
 Blood, DK, P36  
 Bloomer, WD, P122  
 Bobba, VR, 217, 666, P38, P39, 1028  
 Bodmer, W, P15  
 Bogaert, M, 1185  
 Bolelli, G, P115  
 Bonazza, A, P40, 1082  
 Bongers, H, P65  
 Bonow, RO, P17, 1176  
 Bonte, FJ, P6, 492, P105  
 Boonyaprapa, S, P94  
 Borgstrom, MC, P66  
 Born, ML, P92  
 Borsato, N, 438  
 Bossaller, C, P71  
 Bossuyt, A, P118, P128  
 Bostel, F, 746  
 Bottger, I, P96  
 Bottomley, P, P108  
 Boucher, CA, P60, P68  
 Boudreau, RJ, 880  
 Boughner, DR, P27  
 Bowen, RD, P15  
 Bowers, R, P30  
 Brachman, M, P48, P97  
 Bradwell, AR, 1081  
 Brady, LW, P84  
 Brady, TJ, P47  
 Brand, DL, P99  
 Braun, AG, 1086  
 Braunstein, G, P97  
 Braunstein, P, P38, P78  
 Braunwell, E, P20  
 Bray, ST, P102  
 Breatnach, F, P113  
 Bree, RE, P94  
 Bree, RL, P8, P9, 876, P97  
 Brendel, AJ, 228, P37, P105  
 Brennan, N, P14  
 Breull, W, P118  
 Briand, P, P26  
 Bridges, RL, P78  
 Brill, AB, 231, 238, 356, P67, P75, P118, P125  
 Brismar, T, 326  
 Britton, KE, P15, P16  
 Brizendine, M, P76  
 Brodack, JW, 353  
 Brody, S, P39  
 Brooks, RA, 367, P21  
 Brown, JM, 861  
 Brown, JP, 123, 362, P14, P116  
 Brown, LE, P117, P122  
 Brown, ML, 114, P56, P72  
 Brown, TJ, 110  
 Brownell, GL, P33, 1135, P119  
 Brugge, WR, P8  
 Bruno, S, P39  
 Buchsbaum, MS, P69  
 Buckner, D, P113  
 Buddemeyer, EU, 716  
 Budinger, TF, 73, 339, 812  
 Budner, N, P90  
 Buell, U, P6, 746, 761, 1201  
 Buja, LM, 492, P86  
 Bungo, MW, P24  
 Bunker, SR, 1083  
 Bunko, H, P27  
 Bunting, RW, P60  
 Buonanno, FS, P47  
 Burdine, JA, 703, P35  
 Burk, MW, P77  
 Burke, AM, P71  
 Burks, R, P18, P30  
 Burnett, KR, P85  
 Burns, HD, P10, P43, P117, P127  
 Burns, RJ, 775, P87  
 Burrows, BA, 949  
 Burt, RW, P64, P85  
 Busemann-Sokole, E, 973, P59, P103  
 Bush, L, P12  
 Bushberg, J, P42  
 Butler, TA, P24  
 Butfield, IH, 728  
 Buxton, RB, P34, P105  
 Byrd, BL, P121  
 Byrne, EF, P126  
 Byrne, PJ, P109  
 Byrom, E, P29, P91  
 Cadranet, S, P98  
 Cady, E, P109  
 Cahill, PT, P25  
 Caldwell, JH, P29  
 Caldwell, RL, P32  
 Callahan, AP, P43, P118, P121  
 Callahan, RJ, P60  
 Camerani, M, 438  
 Camin, LL, P9, P28, P86, P102  
 Campbell, JP, P85  
 Canby, JP, P41  
 Cannon, PJ, P36  
 Caparros, B, P112  
 Capek, V, P111  
 Capello, WN, P58  
 Cardarelli, JA, 949  
 Cardell, GC, P108  
 Carey, JE, Jr, P49  
 Caride, VJ, P57  
 Carlo, DJ, P15, P77, P94  
 Carlton, E, P118  
 Carrasquillo, JA, 123, 362, P14, P35  
 Carrera, GF, P41  
 Carretta, R, 308, P41  
 Carroll, LR, P11  
 Carroll, MJ, P15, P16  
 Carson, R, P69  
 Carson, RE, P63, P81  
 Carter, W, P30  
 Carvalho, A, 545  
 Casal, H, 563  
 Casara, D, P40, 1082  
 Casey, M, P14  
 Castaigne, A, 768  
 Castel, JP, P105  
 Castronovo, FP, 369, P126

- Casu, AR, 302  
 Cattor, H, 1185  
 Catz, B, P97  
 Causer, DA, 157  
 Cavaillolles, F, P62  
 Cawley, KA, 14  
 Cerqueira, M, P103  
 Cesaro, P, P108  
 Chadwick, VS, P79  
 Chaikin, L, P102  
 Chan, DW, 498  
 Chan, SM, P116  
 Chance, B, P47  
 Chandeysson, PL, P97  
 Chandraratna, PAN, P37  
 Chang, CC, P77, P106  
 Chang, J, P33  
 Chapman, CN, 1149  
 Chapman, D, P58  
 Chapman, N, P97  
 Chappel, M, P114  
 Charnock, JS, 728  
 Chasko, JH, P121  
 Chatal, JF, P14  
 Chaudhuri, TK, P49, P83  
 Chauvel, P, P108  
 Chen, A, P77  
 Chen, CT, P50  
 Chen, DC, 841  
 Chen, DCP, 735, P57, P91  
 Chen, IW, P114  
 Cheng, KT, P124  
 Chervu, LR, 643  
 Chervu, S, 643  
 Chesnut, CH, P58, P84  
 Chesser, RB, 1046  
 Chevigne, M, 886  
 Chikote, W, P46  
 Childs, PO, 157  
 Childs, RL, 544  
 Chilton, HM, 1080  
 Chin, D, 589  
 Chin, HW, 647  
 Chisin, R, P109  
 Choiniere, L, P79  
 Chonecky, N, P103  
 Chopin, D, P16  
 Chowdhury, S, P26, P127  
 Christian, PE, 264, P61  
 Christman, D, 447  
 Chu, CM, P35  
 Chu, YK, P42  
 Chuang, VP, 297  
 Chugani, DC, P70, P106  
 Chugani, H, P70  
 Cierny, G, III, P72  
 Cillax, G, P61  
 Cinotti, L, 768  
 Claflin, A, P102  
 Clanton, JA, P47  
 Clark, RE, P60  
 Clarke, LP, 683, P75  
 Clarke, R, P94  
 Clarke, SEM, 750  
 Clements, JP, P28, P46  
 Clorius, JH, 104, 593, 746, 859, P129  
 Clouse, ME, P6, P8, 749, P106  
 Coakley, AJ, 641  
 Coates, G, P113  
 Cochavi, S, P85  
 Coenen, HH, P116  
 Coffey, C, P59  
 Coffey, JL, 511, P103, P118, P121  
 Coffey, WA, 861  
 Cogan, BM, 297  
 Cohen, M, P114  
 Cohen, MB, P77, P106  
 Cohen, MD, 467  
 Cohen, SN, 470  
 Colcher, D, P109  
 Cole, W, P30  
 Coleman, RE, P8, 273, 876, P13, P80, P82, P97  
 Colle, JP, 228  
 Colletti, P, P8, P37  
 Collice, M, P5  
 Collier, BD, P19, P41  
 Collin, J, 571  
 Collins, JD, 370  
 Collins, R, 641  
 Colombaro, P, P98  
 Colombo, F, P5, P71  
 Colombo, R, P5  
 Colvin, C, P45  
 Combellas, I, 563  
 Come, SE, P51  
 Conklin, JJ, P40, P56, P95, P98  
 Conley, RA, 423  
 Conroy, R, P47  
 Consigny, PM, P130  
 Constable, AR, 79  
 Conte, E, 334  
 Conte, N, 438  
 Conte, SA, P41  
 Conti, PS, P40, P110  
 Cook, JS, P121  
 Cook, KS, P55  
 Cool, SL, 1072  
 Cooley, LR, 716  
 Cooper, JF, P123  
 Copp, J, 672, 732  
 Corbett, JR, P12, P27, P38, P86, P88, P93, 1200  
 Corbus, HF, P71  
 Corley, JH, 559  
 Corr, PB, P19  
 Correia, JA, P33, P105  
 Coscia, A, 1202  
 Costanza, C, 302  
 Costello, CE, 353  
 Cothren, R, P126  
 Coupal, JJ, 91, 180, 276, 278, 376, 455, 551, 650, 754, 864, 979, P70, P99, 1088, 1089, 1207, P123  
 Coutts, JP, 479  
 Craddock, TD, 973, P59, P103  
 Crampton, RS, P36  
 Craven, MR, P115  
 Crawley, JCW, P76  
 Creutzig, H, P71  
 Critchley, M, P38  
 Crockett, TM, P85  
 Croft, B, 1087  
 Croft, BY, 376, 455, 646, 754, 864, P102  
 Croft, C, P88, P93  
 Croft, DN, 641, 750  
 Crofton, ME, P6  
 Currie, PJ, P36  
 Cullison, RC, 36  
 Cunningham, DA, P60  
 Cunningham, EB, P118  
 Currie, PJ, P36  
 Curtet, C, P14  
 Cywes, S, 479  
 D'Addabbo, A, 334  
 Dahlborn, M, 1197  
 Dalakas, MC, P21  
 Dann, R, P82, P108  
 Dannals, RF, P10, P43  
 Dampure, HJ, 39  
 Darcourt, J, P76  
 Das, DK, P7  
 Datz, FL, 264, P61, P64  
 Daube, ME, P104, P119, P121  
 Davenport, R, 945  
 David, GS, P15, P77, P94, P110  
 Davison, A, 353  
 Davy, JM, P20  
 Decostre, Ph, P91  
 Dees, SM, 383  
 DeGrado, TP, P12, P52  
 Dehmer, GJ, 1200  
 DeJesus, OT, P70  
 de Jong, R, 139  
 DeLand, FH, 1, 97, 179, P59, P70, P98, P99, 1086, 1205, P123  
 Delano, ML, P9, P28, P86  
 De Leenheer, A, 1185  
 Dell'Italia, LJ, P88  
 DeNardo, G, 547, P30  
 DeNardo, S, P30  
 Dendy, PP, 1046  
 Denenberg, BA, P76  
 Denny, MJ, P36  
 Deputte, H, 1185  
 Deorio, AJ, 1084  
 DePuey, EG, 703, P35  
 Deschildre, A, P92  
 deSouza, M, P32  
 Detsky, A, P64  
 Detsky, AS, 1001  
 Deutsch, E, P9, P23, P125, P128  
 Deutsch, SD, P83  
 Devito, M, P100  
 Devous, MD, Sr, P6, 492, P12, P105  
 DeVries, WC, P61  
 Dewanjee, MK, 368, P26, P60, P72, P73, P127  
 Dey, HM, P83, P114  
 D'Haene, EGM, 1199  
 Dhawan, VK, 173  
 Diamanti, CI, P31, P32  
 Di Chiro, G, 367, P21  
 Didisheim, P, P26  
 Digenis, GA, P98  
 Diksic, M, 603, P107, P108, P119  
 Dillman, JD, P15  
 Dillman, RO, P15  
 Dinerstein, R, P70  
 Di Paola, R, P62  
 DiPiazza, HJ, 1070  
 Dirksen, JW, P130  
 Dischino, DD, P53, P62, 1030  
 Dixon, RM, 505  
 Doherty, FJ, P96  
 Doherty, JU, P27  
 Doherty, PW, P8, 544, P81, 1039, 1072  
 Doliwa, R, 761  
 Dolovich, M, P113  
 Domstad, PA, 91, 180, 278, 376, 455, 551, 650, 754, 864, 979, P70, P99, 1089, 1207  
 Donati, RM, P129  
 Don-Michael, TA, P12  
 Dormont, D, P20  
 Dorval, ED, P98  
 Douglas, MA, P17, 1176  
 Douglass, KH, P39, P91, P104  
 Douillard, JY, P14  
 D'Ovidio, NG, 302  
 Drane, WE, 710  
 Drechsler, HJ, P115  
 Dreikorn, K, P129  
 Druck, MN, 775  
 Dubois, A, P56, P98  
 Dubovsky, EV, 722  
 Dubuisson, RL, 98, 969  
 Ducassou, D, 228, P37, P105  
 Dudczak, R, P20  
 Dudley, AH, III, P84  
 Duenes JA, P56  
 Duffy, GJ, P14  
 Dunn, EK, 1151  
 Dunn, WL, 588, P73  
 Durakovic, A, P40, P95, P98  
 Durst, A, P109  
 Dvorak, AD, 14  
 Dworkin, HJ, 371, 383  
 Dykes, PW, 1081  
 Earnest, F, IV, 649  
 Eastman, G, P54  
 Easton, RL, P25  
 Ebbert, MA, P31, 1158  
 Eckelman, WC, 932, P31, P49, 1158, P116  
 Eckhauser, F, 511, P56  
 Eckner, F, P26  
 Edeburn, GF, P72  
 Edeling, CJ, P44  
 Edelstein, W, P108  
 Edlund, G, 747  
 Edwards, RHT, P109  
 Effros, RM, P14  
 Egbert, R, P38  
 Ege, GN, 369, 370, 371, P40, P95  
 Ehrhard, JC, 979  
 Ehrhardt, GJ, 349  
 Ehrhardt, JC, 91, 180, 650  
 Ehrin, E, 326  
 Eichelkraut, W, P12  
 Einhaupl, K, P6  
 Eisenman, JI, P7  
 Eisner, RL, P19  
 Ellis, JJ, 1084  
 Ellis, RC, P84  
 Ellison, DJ, P4  
 Ellrodt, AG, P87  
 Elmaleh, DR, 1135, P105, P120, P125, P126  
 Elmor, J, P31  
 Elson, MK, 700, P102  
 Emrich, JG, P43, P117  
 Endo, K, P65, P66  
 Eng, R, P56, P98  
 Eng, RR, P40, P95  
 Engdahl, JC, P19  
 Engelstad, BL, P54  
 Engin, S, P39  
 English, RJ, 1065  
 Ennis, M, P39  
 Ensminger, WD, 871, P51  
 Ensminger, WE, P51  
 Ensminger, WH, P51  
 Ensslen, RD, 586  
 Epenetos, AA, P15  
 Epps, LA, P10, P127  
 Epstein, E, P35  
 Erbel, R, 22  
 Eriksson, L, 326, P33  
 Eshima, D, P10  
 Espinola, D, P39  
 Esser, JD, 1119  
 Esser, PD, P58, P59, P75  
 Esterbrook, A, P78  
 Esterhai, J, P84  
 Etani, H, 136  
 Eugene, J, P85  
 Ezekowitz, MD, P60, P89  
 Fairbanks, VF, 339  
 Fairweather, DS, 1081  
 Fallon, JT, P37  
 Fand, E, P94  
 Fand, I, 231, 238  
 Fang, R, P26  
 Fardi, M, P47  
 Faris, JV, P85  
 Farrokhzad, S, P119  
 Faulhaber, PF, P50, P120  
 Fawwaz, RA, P31, P78, P100, P125  
 Fazio, F, P5, P71, P88  
 Fazzi, P, P71  
 Feder, JC, P36  
 Feenstra, A, 522  
 Feenstra, H, 641  
 Feiglin, D, 1001  
 Feiglin, DH, P64, P79  
 Feindel, W, 603, P107, P108, P119  
 Feinendegen, LE, 22, 545, P100  
 Feld, T, P80  
 Ferens, JM, P14, P116  
 Ferguson, WR, 475, P79  
 Ferlin, G, 438  
 Fernandez-Ulloa, M, 589  
 Ferreira, N, P49  
 Ferrone, S, P31, P78, P125  
 Ferry, JD, P35  
 Fetterman, RC, P28, P46  
 Ficke, DC, P61  
 Findley, AM, 443, 592  
 Findley, SL, P17  
 Fink-Bennett, DM, P94, P97  
 Fintelman, H, 1199  
 Firth, BG, P27, P88, 1200  
 Fisher, DJ, 898, 907, P28  
 Fisher, MF, 803  
 Fisher, RM, 479  
 Fisher, RS, P39  
 Fisher, SJ, P42  
 Fitzgerald, MX, P14  
 Fitzgerald, RH, P72  
 Flanagan, RC, 89, P130  
 Flechner, SM, P129  
 Fleischman, JB, P123  
 Fleming, JS, 1099  
 Flesher, AC, P103  
 Fletcher, C, P53, P87  
 Fletcher, JW, P129  
 Flournoy, JG, 450  
 Flower, MA, P103  
 Flynn, MJ, P25  
 Foder, B, P44  
 Fogelman, I, 208, 312  
 Folmer, SCCR, 212  
 Fonroget, J, P61  
 Ford, KK, P80  
 Fordham, EW, 748, P127  
 Forman, A, P83  
 Formiconi, AR, P93  
 Forstrom, LA, P98, P101, P102  
 Foster, DM, P85  
 Foulon, J, 886  
 Fowler, JG, 1055  
 Fowler, JS, 238, 443, 592, P52  
 Fox, KAA, P5, P20, P59  
 Fragu, P, 582  
 Franchimont, P, P34  
 Francis, BE, P49  
 Frank, SJ, 1084  
 Franke, L, P116  
 Frankel, N, P13  
 Fraser, CB, 479  
 Fratello, A, 334  
 Frederick, RJ, 110, 1019  
 Freeman, LM, 178, 277, 374, 453, 643, 753  
 Freeman, M, P45, P54  
 Fregoso, A, P88  
 Freitas, JE, P8, P9, 383, 646, 732, 876, P35, P55, P94, P97  
 Frenkel, A, P88  
 Freund, H, P109  
 Freundlieb, C, 22  
 Frey, GD, P91, P115  
 Frick, MP, P37  
 Fried, A, 91, 180, 278, 376, 455, 551, 650, 754, 864, 979, 1089, 1207  
 Friedlaender, G, P60  
 Friedland, RP, 812  
 Friedman, A, P25  
 Friedman, AM, P70

- Friedman, J, P18, P34, P45, P58  
 Frincke, JM, P15, P77, P94, P110  
 Frischauf, H, P20  
 Fritzberg, AR, 8, 353, P10, P47, P80, P126  
 Froelich, JW, 752, P87  
 Front, D, P88  
 Frost, RJ, P34  
 Fruhling, J, P40  
 Fuchs, Z, P109  
 Fujibayashi, F, P124  
 Fujibayashi, Y, P123  
 Fujii, H, P129  
 Fujimi, K, P29, P48  
 Fukushima, M, P28, P54  
 Fuller, PJ, 448  
 Fultz, KR, P50, P120  
 Fumoleau, P, P14  
 Funch-Rosenberg, H, P44  
 Fymat, AL, 642
- Gado, M, P106  
 Gaeta, J, P11  
 Gagne, GM, P80  
 Gallagher, BM, P28, P86, P102  
 Galloway, D, P60  
 Galvin, EG, P72  
 Gamble, RC, 45, P125  
 Gandsman, EJ, P83  
 Ganz, W, P4  
 Garbarino, JL, P84  
 Garcia, E, P18, P34, P45, P53, P58, P114  
 Garvin, BW, P70  
 Gates, GF, P80  
 Gatley, SJ, P12, P52, P69  
 Gauden, ME, 160, 646  
 Gaunt, JI, 641, 750  
 Gebhardt, V, P27  
 Geft, I, P4  
 Geisinger, M, P46  
 Gelfand, MJ, P22, P32  
 Geltman, EM, P61  
 George, EA, P129  
 George, FH, 716  
 Georges, B, P98  
 Georgiou, E, 174  
 Gerbrands, JJ, 1099  
 Gerding, DN, P102  
 Gergans, G, P25  
 Gerner, R, P21  
 Gertz, E, P19, P36  
 Gerundini, P, P5, P71, P88  
 Gevaert, Y, P34  
 Giacomini, P, P31, P78, P125  
 Gibellino, F, P13  
 Gibson, RE, P49, P116  
 Gibson, RS, P36, P45  
 Gilardi, MC, P5, P71, P88  
 Gilbert, S, P44  
 Gilday, DL, P32  
 Giles, R, P76  
 Gilula, LA, P60  
 Giordano, H, 563  
 Girod, DA, P32  
 Giuntini, C, P71  
 Glass, E, P56, P71  
 Glass, EC, P114  
 Glassman, AB, P115  
 Glaubitt, D, P83, P115  
 Glenn, HJ, P102  
 Glickman, M, P60, P89  
 Gliviczki, P, P60  
 Glowinski, J, P54, 1127  
 Go, M, P19  
 Go, RT, P46, P74, P114  
 Go, VLW, 548  
 Goble, J, P107  
 Gobuty, A, 508  
 Gobuty, AH, P57  
 Goeckeler, WF, 349
- Goethals, P, 1185  
 Gohil, D, P7  
 Goin, JE, P95  
 Gold, HK, P4, 545, P37, P68  
 Goldenberg, DM, 360  
 Goldfarb, H, P10  
 Goldman, KJ, 2  
 Goldsmith, SJ, 799, P85, P92, P94, P101  
 Goldstein, HA, 204, P27, P46, P92, P106  
 Goldstein, RA, 546, 898, 907, P28  
 Goldstein, SJ, 277  
 Goldman, J-L, 529, P67  
 Gonzales, J, P44  
 Goodenday, LS, 34  
 Goodgold, HM, P49, P57  
 Goodman, MM, P43, P117, P125  
 Goodwin, DA, P31, P32, P53  
 Goodwin, PN, 643  
 Gordin, M, P109  
 Gordon, E, P28  
 Gordon, I, P16, P32, P113  
 Gordon, L, 1023  
 Goris, ML, P28, P53  
 Gorman, C, 659  
 Gottschalk, S, P25, P74  
 Gottschalk, SC, 822  
 Gould, HR, 505  
 Gould, KI, P86  
 Gould, KL, 52, 577, 898, 907, P11, P28  
 Gourgon, R, P20  
 Goveltiz, GF, 145  
 Grady, PJ, 36  
 Graham, GD, 110, 568, 1019  
 Graham, LS, 91, 187, 197, 278, 551, 629, P77, P79, 1207, P106, P114  
 Graham, MM, 543, 710, P58, P110  
 Granowska, M, P15, P16  
 Gray, D, P106  
 Gray, HW, 312  
 Green, A, P45  
 Green, AM, 971  
 Green, MV, P17, 1176  
 Greenberg, J, P21  
 Greenberg, ML, P101  
 Greenfield, D, P56  
 Greenfield, MA, 642  
 Greenman, GF, P58  
 Greenspan, BS, P79  
 Greenwell, K, 629  
 Greer, KL, P82  
 Gregg, J, P8  
 Greitz, T, 326  
 Grekin, RJ, P55  
 Griffiths, JR, P109  
 Grill, BB, P56  
 Grime, JS, P38  
 Grissom, M, P56  
 Grissom, RL, P130  
 Gross, MD, P8, 672, 732, 876, P30, P55, P110  
 Grossman, HB, P110  
 Grossman, LW, P104  
 Grossman, W, P87  
 Growcock, GW, P83  
 Grubb, RL, Jr, P108  
 Grubbs, D, P71  
 Grunder, JR, P116  
 Grunze, M, P20  
 Gryboski, JD, P56  
 Guerrero, JL, P37  
 Gullberg, GT, P19, P81, P104  
 Gundel, W, P46  
 Gunson, BK, 367  
 Gur, RC, P21
- Gust, WF, P130  
 Gustafson, G, P77  
 Gutierrez, C, 508, P129  
 Guvenis, A, P11  
 Guzy, PM, P12  
 Guzzetta, PC, P23  
 Gyves, JE, P51  
 Gyves, JW, 871, P51
- Haber, E, 545, P37  
 Hachisuka, Y, P129  
 Hadjipavlou, A, 880  
 Haerten, RL, P58  
 Hafez, G-R, 505  
 Hagan, PL, P15, P77, P110  
 Hahn, N, P52  
 Haines, JE, 1028  
 Hakki, AH, P68  
 Halama, JR, P12, P17, P52, P69  
 Halgren, E, P69  
 Hall, CE, 367  
 Hall, J, P32  
 Hall, RJ, 703, P35  
 Haller, F, P96  
 Halls, JM, P8  
 Halperin, J, P92  
 Halpern, SE, P15, P18, P30, P63, P77, P110, P111  
 Halvorsen, R, P83  
 Ham, HR, P98  
 Hamaoka, D, P18, P66  
 Hamilton, JRL, 475  
 Hammes, CS, 1083  
 Hammond, ND, P49  
 Hannequin, P, P92  
 Hannon, DW, P32  
 Hansen, AM, P44  
 Hansen, HW, P4  
 Hanson, JA, P58  
 Hanson, R, P116  
 Hanson, RJ, P97  
 Harbert, JC, 1070, P109  
 Harcke, HT, P47, P84  
 Harcastle, JD, P15  
 Hardeman, MR, 615, P73  
 Harloff, R, P34  
 Hardy, JG, P15  
 Hardy, MA, P31, P78, P100, P125  
 Harp, GD, P29  
 Harpen, MD, 98, 969, 971, P44  
 Harper, PV, P50, P77, P120  
 Harrington, WJ, P74  
 Harris, CC, P80  
 Harrison, B, P129  
 Hartshorne, MF, 1019, 1083  
 Hartz, R, 52  
 Hartz, RK, P11  
 Hartzell, CR, P47  
 Hasegawa, BH, 532  
 Hashimoto, N, P123  
 Hasselbach, W, P20  
 Hastings, WL, P61  
 Hata, N, P66, P126  
 Hattner, RS, P54, 1081  
 Hauser, AM, P35  
 Hauser, H, 593  
 Hauser, MF, P72  
 Hawker, RJ, 367  
 Hawkins, B, P47  
 Hawkins, LA, P15  
 Hawkins, RA, P20, P21  
 Hawman, EG, P58  
 Hayden, PW, P113  
 Haydock, C, 1164  
 Haynie, TP, 297, 966, P102  
 Hays, MT, 90  
 Hays, SJ, P122  
 Hazue, M, P123, P124, P127
- Head, GB, III, 98, 969  
 Heal, A, P38, P74  
 Heal, AV, P35, P44, P101  
 Heindel, ND, P10, P117  
 Heineman, WR, P23  
 Heiss, W-D, 1188  
 Heitzman, M, P46  
 Heller, GV, P87  
 Heller, SL, P34  
 Hellman, RS, P19, P41  
 Hellstrom, I, 123, 362, P14, P35, P116  
 Hellstrom, KE, 123, 362, P14, P35, P116  
 Helus, F, P20  
 Heminger, LA, P114  
 Hendee, WR, 532, P67, 1192  
 Henderson, S, P19, P36  
 Hendricks, PA, 29  
 Hendry, GO, P121  
 Henesy, GT, P97  
 Henriksen, L, 17  
 Henze, E, 370, 987, P12, P54, P87  
 Herholz, K, 1188  
 Herlyn, D, P77  
 Herscovitch, P, 782, 790, P22, P62, P63, P106, P108  
 Hersenson, L, P39  
 Hess, T, 285  
 Heyman, S, P22, P84  
 Hill, TC, P6, P8, 749, 922, P49, P106, P117  
 Hillemeier, AC, P56  
 Hillis, LD, P88, 1200  
 Hirano, T, P96, P99  
 Hirao, N, P129  
 Hirata, K, P104  
 Hirose, K, P90  
 Hirschhaut, E, 563  
 Hisada, K, P27  
 Hnatowich, DJ, P23  
 Hnatowich, DM, 544  
 Hock, A, 22, P100  
 Hodgins, DW, 275  
 Hodgson, HJF, P79  
 Hoeflin, F, 285  
 Hoek, C, 1099  
 Hoffer, P, P42, P76, P83, P103  
 Hoffer, PB, 608  
 Hoffman, BB, 1194  
 Hoffman, E, 987  
 Hoffman, EJ, 245, P10, P11, P81  
 Hoffman, TJ, P10, P128  
 Holden, JE, P12, P17, P52, P69  
 Holder, JE, P62  
 Holder, LE, 735, 841  
 Hollenberg, M, P19, P36  
 Holloway, EC, P103  
 Holm, S, 17  
 Holman, BL, P6, 922, P49, P62, 1065, P106, P117  
 Holmes, RA, 997, P10, P128  
 Holt, S, P101, P110  
 Homan, R, P20  
 Homan, RW, P105  
 Hooper, HR, 1012  
 Hoory, S, P7  
 Hopfer, RL, P102  
 Hopkins, JM, P92  
 Hopkins, KT, P59, P60, P73  
 Horiuchi, K, P123, P126  
 Horowitz, S, P85  
 Horowitz, SF, P92  
 Hoskins, R, P94  
 Hotze, L-A, P65  
 Houle, S, 775
- Hourani, M, P33, P38, P75, P113  
 Houser, TS, P74  
 Hsu, TH, 498  
 Hu, B, P58  
 Huang, MJ, P35, P112  
 Huang, S-C, 245, 987, P12, P19, P63, P69, P81, P89, 1060  
 Huberty, JP, P54, 1081  
 Hubner, KF, P103, P118, P121  
 Hudson, D, P71  
 Huffer, WE, 224  
 Hughes, B, P19  
 Hughes, JA, 589  
 Hulse, S, P4  
 Hundeshagen, H, P71, P93, P121  
 Hunermann, B, P112  
 Hung, Y-L, P120  
 Hurst, DJ, 997  
 Hurwitz, RA, P32  
 Husserl, F, 916, P44  
 Hutchins, GD, P69, P91, P104  
 Hutton, BF, 970  
 Huxley, R, P27, P93
- Ibuki, Y, P29, P48  
 Ice, RD, P116  
 Ido, T, P120  
 Iga, C, P70  
 Iida, F, P97  
 Iida, Y, P65, P66  
 Ikekubo, K, P29, P48, P66  
 Ikkos, D, 174  
 Ilse, HW, 1188  
 Ilves, R, P79  
 Imura, H, P65  
 Inada, M, P65  
 Inbasekaran, M, P42, P117  
 Inoue, M, P28, P54  
 Inoue, S, P104  
 Inouye, IK, P36  
 Inrgartinger, G, P129  
 Ishida, Y, P28, P54  
 Ishii, H, P65  
 Ishii, Y, P18  
 Ishiwata, K, P120  
 Isitman, AT, P41  
 Iskandrian, AS, P68  
 Ismail-Beigi, F, P39  
 Ito, Y, P31, P127  
 Itoh, H, P18  
 Iwa, T, P27  
 Iwata, R, P120  
 Iwata, Y, 136  
 Izquierdo, C, 492, 1200
- Jackson, FI, 586  
 Jackson, LJ, 1154  
 Jacobs, DA, 1039  
 Jacobs, J, P64  
 Jacobus, J, P56  
 Jaffe, AS, P59  
 Jaffe, N, 1205  
 Jager, B, 1201  
 Jagoda, EL, P49, P116  
 Jahangir, SM, 356  
 Jahns, M, P102  
 James, AE, P47  
 James, V, P95  
 Jansholt, A-L, P78  
 Jansson, PE, 326  
 Jaques, S, Jr, P117  
 Jarboe, G, 1028  
 Jarmolowski, C, P13  
 Jaszczak, RJ, 273, P82  
 Jeske, D, P101  
 Jhingran, S, P122  
 Jobsis, AC, 641  
 Joergensen, D, P94  
 Johnson, AN, P127

- Johnson, DG, P13  
 Johnson, DL, 353, P10, P47, P80  
 Johnson, M, P18, P30  
 Johnson, P, P122  
 Johnson, PC, P24, P45  
 Johnson, RP, P41  
 Johnson, SD, P37  
 Johnston, DL, P27  
 Johnston, GS, 716  
 Jonckheere, J, 1185  
 Jones, AE, P17, P21  
 Jones, AG, 353, 922, P49  
 Jones, ET, 543  
 Jones, PL, P102  
 Jones, SC, 447  
 Jones, TB, 98, 969  
 Jones-Collins, BA, P17  
 Joseph, K, P65  
 Joskowicz, E, P89  
 Jugdutt, BI, 1012  
 Julien, P, P114  
 Junck, L, 805, P107  
 Jungmans, RP, P74  
 Juni, JE, P30
- Kadota, K, P18  
 Kahan, BD, P129  
 Kahn, CR, P66  
 Kahn, PC, P96  
 Kaindl, F, P37, P89  
 Kairento, A-L, 1135, P119  
 Kalff, V, 672, P36, P55  
 Kaliman, J, P89  
 Kambara, H, P18  
 Kameyama, M, P69  
 Kamps, DL, P55  
 Kantarjian, HM, 297  
 Kaplan, E, 642, P25, P54  
 Kaplan, ML, 922, P49, P116, P117  
 Kaplan, S, P32  
 Kaplan, WD, P40, P50, P51, P109, P117  
 Kapsch, DN, 349  
 Karcher, RE, P35  
 Kares, S, P26, P111  
 Karimeddini, MK, 116, P83  
 Kariyone, S, P7  
 Karlberg, N, 1197  
 Karran, SJ, 1099  
 Kasagi, K, P65  
 Kaschula, ROC, 479  
 Kashiwada, K, P115  
 Kashiwagi, T, P48  
 Kasi, LP, P102  
 Kasina, S, 353  
 Kass, EJ, P23  
 Kassiss, AI, 862, 1055, 1164  
 Kataoka, K, 136  
 Kato, A, P107, P108  
 Kato-Azuma, M, P127  
 Katowitz, J, P22  
 Katzberg, RW, P42  
 Katzenellenbogen, JA, P52  
 Kaufman, HD, 1151  
 Kawada, T, P7  
 Kawagoe, Y, P90  
 Kawai, C, P18  
 Kawashima, K, P120  
 Kaye, MP, P60  
 Kearfott, KJ, 555, 805, P107  
 Keen, R, P4, 515, P70  
 Kelly, MJ, 448, P36  
 Kemper, AJ, 485  
 Kempi, V, 747  
 Kenyon, RV, P66  
 Kessler, M, 746  
 Kessler, RM, P69, P107  
 Ketting, AR, P9, P125  
 Kew, MC, 1119  
 Keyes, JW, Jr, P30, P51, P61  
 Khan, H, P35, P44
- Khan, O, P103  
 Khaw, BA, 545, P37  
 Khuri, SF, 485  
 Kidder, RE, 1039  
 Kilbourn, MR, P52, P53, P62, P63, 1030, P120  
 Kilcoyne, RF, P58  
 Killion, LT, P15  
 Kim, BH, P28, P54  
 Kim, EE, 297, 508, 966, P129  
 Kim, I, P29, P91  
 Kimata, S, P90  
 Kimchi, A, P53, P87  
 Kimura, K, 136, P28, P54  
 King, MA, P8, 625, P66, P81, 1039, 1072  
 Kingston, E, 217  
 Kinser, J, 285  
 Kipper, M, P63  
 Kipper, S, P63  
 Kirchner, PT, 642  
 Kirk, GA, P107  
 Kirsch, CM, P6, 746, 761, 1201  
 Kistler, JP, P47  
 Kitaura, Y, P29, P48  
 Kleaveland, JP, P27  
 Klein, HA, P98  
 Kleiner, E, P40  
 Kleinhans, E, P6, 1201  
 Kletter, K, P20  
 Klicpera, M, P37  
 Kling, AS, P20  
 Klingensmith, GJ, 224  
 Klingensmith, WC, III, 8, 224, 972, P10, P47, P67, P80  
 Kloss, G, P128  
 Kloster, G, 417  
 Kluge, D, P26, P60  
 Knapp, FF, P125  
 Knapp, FF, Jr, P24, P43, P117, P118  
 Kneeland, JB, P25  
 Knesaurek, K, 543  
 Knight, LC, 835  
 Knopf, RD, 172  
 Knopp, R, P13, P29, P109  
 Knowles, RJR, P25  
 Knust, EJ, P118  
 Kobayashi, M, P97  
 Kobayashi, Y, P41  
 Kodery, B, P119  
 Koeppel, RA, P62, P69  
 Koerner, S, P114  
 Kohler, D, P113  
 Koller, DW, P104, P105  
 Kolodny, GM, P87, P99  
 Komori, H, P29, P48  
 Konishi, J, P65, P66  
 Kontzen, F, 722  
 Kooij, PPM, 1099  
 Kopiwoda, S, 369  
 Koprowski, H, P77, 1158  
 Koral, KF, P61  
 Korchik, W, P65  
 Koroshetz, AM, P8  
 Kostuk, WJ, P27  
 Kowalsky, RJ, 1080  
 Kowalsky, WP, P19  
 Kramer, AV, P10, P127  
 Kremer, M, P14  
 Kretz, P, P11  
 Krewer, KD, P8, 876  
 Krishnamurthy, GT, 217, 666, P38, P39, 1028  
 Krishnen, L, P77  
 Krivokapich, J, P19, P89  
 Krohn, KA, P14, P24, P33, P79, P110, P116, P124  
 Kronenberg, J, 1005  
 Kroop, SA, P84  
 Kropac, J, P4  
 Kruger, JB, P104
- Krug, KB, 589  
 Kubler, W, P20  
 Kudo, M, P29, P48  
 Kufe, D, P109  
 Kuhl, DE, P20, P21, P69  
 Kulkarni, PV, P6, P12  
 Kumamoto, M, P104  
 Kumar, B, P60  
 Kung, HF, 66, P5, P23, P95  
 Kuni, CC, 8, 532, P80  
 Kuromoto, N, P70, P100  
 Kurozumi, T, 693  
 Kuruc, A, 258  
 Kusakabe, K, P90  
 Kyle, RW, 559
- La Cava, G, P93  
 Lacroix, F, P37  
 Lacy, JL, P24, P122  
 Laffin, SM, P40, P51  
 La Fontaine, R, 629  
 Lahiri, A, P76  
 Lai, CD, P31, P32  
 Lai, N, 302  
 Laird, JD, 475, P79  
 Lake, RR, P106  
 LaManna, MM, P84  
 Lambrecht, RM, P122  
 Lamki, L, 689, P129  
 Lancaster, JL, 1083  
 Landrum, W, P64  
 Landry, AJ, 1083  
 Landvatter, SW, P52  
 Lang, G, 308  
 Lange, K, P81  
 Lange, R, P56, P76, P103  
 Langrell, K, 666, P38, P39  
 Lanteigne, D, 544, P23  
 Larson, SM, 123, 362, P14, P35, 1176, P110, P116  
 Lassar, TA, P75  
 Lassen, NA, 17  
 Lassman, CR, P31, 1158  
 Lathrop, KA, P50, P120  
 Laurent, MF, 582  
 Lautin, EM, 178, 374, 453  
 Lavender, JP, 39, P6, P13, P79  
 Lawson, A, P42  
 Lawson, J, P42  
 Lazewatsky, JL, 485, P91  
 Leach, MO, P103  
 Lear, JL, P69  
 LeBlanc, AD, P24, P45, P122  
 Lebrunec, J-F, 529, P67  
 Leccia, F, P37  
 Lecklitner, ML, 450  
 Lee, H-B, 397  
 Lee, J, P29  
 Lee, L-Y, P70  
 Lee, RGL, P6, P8, 749, P106, P117  
 Lee, SH, P116  
 Lee, WNP, 642, P44  
 Lee, YS, 116  
 Lees, AM, 154  
 Lees, RS, 154  
 Lefkopoulou, D, P61  
 Leger, AF, 582, 1135  
 Legrand, V, 886  
 Leigh, B, P114  
 Leighton, RF, 34  
 Leinbach, RC, P4, P37, P68  
 Lense, L, P90  
 Lentle, BC, P101  
 Lenzi, GL, P5  
 Leonard, JCF, P108  
 Leonard, RCF, P50  
 le Poncin-Lafitte, M, 17  
 Lerch, RA, 130, 380  
 Levasseur, A, P100  
 LeVeen, HH, 302  
 Leventon, G, 1005  
 Levin, G, P39
- Levin, J, 1119  
 Levitsky, S, P26  
 Levy, LM, P7  
 Levy, W, P68  
 Lewellen, TK, P58, P84, P110  
 Lewis, MH, 644, P38, P93  
 Lewis, SE, P6, 492, P12, P27, P38, P86, P88, P93, 1200  
 Leytens, J, 641  
 Liaw, YF, P35  
 Libson, K, P9, P23  
 Lichtenberg, T, P115  
 Lie, SP, P27, P93, 1099  
 Lieberman, LM, 505, P55, P111  
 Liehn, JC, P92  
 Lightner, JM, P45  
 Lim, CB, 822, P74  
 Lim, YL, P36  
 Lin, A, P103  
 Lin, DS, 894, P16  
 Lin, K, 1151  
 Lin, LH, P35  
 Linder, K, P9, P28, P86  
 Links, JM, P91, P104, P105  
 Lipszyc, H, P85  
 Lisbona, R, 753, 880  
 Liss, LF, P85  
 Lister-James, J, P6  
 Liteplo, M, P9  
 Littlefield, JL, 463, 1202  
 Litton, J-E, 326  
 Liu, RS, P30, P42  
 Livni, E, P120, P126  
 Llaurado, JG, 402  
 Lloyd, LK, 722  
 Lobenhoffer, P, P71  
 Loberg, MD, 423, 898  
 Locke, E, 545  
 Lockhart, J, P33  
 Loeb, H, P54  
 Loken, MK, P37, P96, P98, P101  
 London, JW, 713, P30  
 Longenecker, BM, P110  
 Lopez-Berestein, G, P102  
 Lord, P, P42  
 Lorman, JG, 978  
 Losman, JG, P29, P91  
 Losse, B, 22  
 Loudenslager, D, P39  
 Lovett, RD, P6  
 Lovisatti, L, P125  
 Lown, B, P62  
 Ludbrook, PA, 2  
 Luedke, D, P129  
 Lukes, SJ, P9, P104  
 Lull, RJ, P72  
 Lundy, MM, 110, 568, 1019  
 Lushbaugh, CC, 276  
 Lynne, C, P33  
 Lyons, B, P80  
 Lyons, KP, P47, P85
- Ma, KW, P65  
 MacDonald, AC, P129  
 MacDonald, NS, 515  
 MacEwen, GD, P84  
 Macey, DJ, 571  
 MacGregor, RR, 238, 443, 592  
 Machac, J, P92  
 Machulla, H-J, P12, P13, P100, P118  
 MacIntyre, WJ, P46, P74, P114  
 Mack, L, P58  
 Mackey, ST, P26  
 Maddahi, J, P4, P18, P34, P45, P53, P87  
 Madden, JA, 402  
 Madeddu, G, 302
- Mader, J, P72  
 Maeda, H, P89, P99  
 Magarian, RA, P116  
 Maggiolo, L, P33  
 Magorien, D, P89  
 Magoun, S, P99  
 Maier-Borst, W, 593  
 Majd, M, P23, P57  
 Maki, M, P90  
 Makimoto, K, P66  
 Makler, PT, Jr, 204, 713, P27, P30, P45, P46, P88, P92  
 Malagelada, J-R, P56  
 Malik, R, P39  
 Malko, JA, P19  
 Malmberg, P, 326  
 Malmun, RE, P58  
 Malmud, LS, 835, P39, P76  
 Malone, M, P113  
 Man, AC, 1151  
 Mandell, GA, P84  
 Manger, WM, 1194  
 Mangham, D, P38  
 Mangner, TJ, P118  
 Mann, BD, P77  
 Mann, MD, 479  
 Manning, RG, P69  
 Mansi, L, P21  
 Mantravadi, R, P111  
 Marani, SK, 898, 907, P28  
 Marciano, D, P111  
 Marcus, CS, 36, 747  
 Margolin, RA, P69  
 Margonato, A, P88  
 Marigold, JH, 750  
 Marini, G, P71  
 Mariwalla, RG, P99  
 Markham, J, 782, 790  
 Markham, RV, 1200  
 Markisz, JA, P40  
 Marks, HG, P47  
 Markwell, K, P26  
 Marmor, A, P88  
 Marsh, CL, P45  
 Marshall, K, P92  
 Marshall, RC, 1060  
 Marten, DF, P116  
 Martin, BC, P31  
 Martin, JB, P73  
 Martin, K, P111  
 Martin, NL, P57  
 Martin, WRW, 208, 790, P62, P63, P108  
 Maruoka, Y, 693  
 Maruyama, Y, 863  
 Maseri, A, P88  
 Mashio, Y, P65  
 Mason, GR, P14  
 Mason, J, P54  
 Massant, B, P40  
 Massie, B, P19, P36  
 Masuhara, K, P115  
 Mather, S, P15  
 Mathias, CJ, 130, 380, P59, P60  
 Mathis, CA, 812  
 Matin, P, 308, P41  
 Matsuda, S, P7  
 Matsui, K, P41  
 Matsumoto, M, P28, P54  
 Matsumura, K, P89, P96  
 Matsuo, M, P100  
 Mattered, JA, P28, P46  
 Matys, R, 593  
 Maublant, J, 139, 273, P76  
 Maurer, AH, P39, P76  
 Mausner, LF, P43  
 Maxon, H, P114, P125  
 Mayer, FR, P79  
 Maziere, M, P20  
 Mazziotto, JC, P20, P21, P69  
 McAfee, JG, P80  
 McCabe, E, P47

- McCall, MJ, P31, P32  
 McCalley, M, P38  
 McCallum, RW, P56, P57  
 McCarthy, DM, 204, 713, P27, P36, P45, P46, P88, P92  
 McConnell, D, 217  
 McCready, VR, P103, P109  
 McCullough, J, P101  
 McDougall, IR, 29  
 McElvany, KD, P52, P123  
 McFadden, KW, P73  
 McGann, LE, P101  
 McGuffin, RW, P14  
 McLrath, EM, 475  
 McIntosh, GH, 728  
 McKay, RG, P87  
 McKillop, JH, 312  
 McKusick, KA, P4, P37, P48, P60, P68, P87  
 McLaughlin, PR, 775  
 McLaughlin, WH, P122  
 McNally, WP, 238, P94  
 Meany, TF, P46  
 Meares, CF, P30, P31, P32  
 Medvec, BR, P112  
 Mehr, SH, P84  
 Meier, DA, 119  
 Meignan, M, 768  
 Meinken, GE, P24, P118, P125  
 Meizlish, JL, P17, P67, P68  
 Melby, JC, P55  
 Meldolesi, U, P93  
 Mele, M, 334  
 Melloul, M, 735, 841  
 Mena, I, 139, P14, P76  
 Mendel, JB, P87  
 Mendiano, O, 977  
 Mendoza, I, 563  
 Merkel, KD, P72  
 Mermall, H, P78  
 Mertens, J, P118  
 Mesgarzadeh, M, 217, 666, 1028  
 Meshkinpour, H, P78  
 Mestvedt, B, P35  
 Metter, EJ, P20, P21, P106  
 Meyer, E, P107  
 Meyer, G-J, P71, P121  
 Meyer, JH, 187, 197, P79  
 Meyer, MA, 238  
 Meyers, LJ, P49, P112  
 Mickle, JP, 548  
 Mielke, DK, P37  
 Mignogna, FV, P58  
 Mikhail, SH, P96, P98  
 Milanes, J, P53  
 Milanesi, L, P88  
 Milius, R, P122  
 Milla, PJ, P32  
 Miller, A, 949  
 Miller, TR, 2, 625, P66, 1039  
 Mills, K, P102  
 Mills, SR, P13  
 Milstein, DM, 643  
 Milster, TD, P25  
 Minato, K, P17, P18  
 Mingace, G, P86  
 Miniati, M, P71  
 Mintun, MA, 790, P63, P106  
 Minuk, CM, P64  
 Mirell, SG, P92  
 Mirzadeh, S, P122  
 Misaki, T, P27, P65  
 Mitchell, A, 571  
 Mitchell, RA, P107  
 Mitnick, RJ, P58, P75  
 Miyakawa, M, P97  
 Mlodkowska, E, P16  
 Moak, GD, P85  
 Mock, BH, P64  
 Modell, HI, 543  
 Moerlein, SM, P42  
 Moldofsky, PJ, P49  
 Molnar, M, P23  
 Molter, M, P128  
 Monma, M, P120  
 Monroe, LR, 703, P35  
 Montesinos, A, P113  
 Mooradian, A, P65  
 Moore, MM, 645  
 Moore, RH, 61, P37, P87  
 Moore, SC, 644  
 Moorthy, AV, P111  
 Moreno, AJ, 568, 861  
 Moretti, JL, 17, P16, P108  
 Morgan, CG, P12  
 Morin, RL, P101  
 Morita, R, P17, P66, P123, P126  
 Moriama, H, P104  
 Morley, JE, 700, P65  
 Morris, L, P41  
 Moser, E, P6  
 Moskowitz, G, P7  
 Mostafa, AB, 157  
 Motte, G, P20  
 Mould, RF, 974  
 Moyer, BR, 812  
 Muehlheiner, G, P11, P82, P88  
 Mueller, G, 285  
 Mukai, T, P17, P18  
 Mulhern, CB, P49  
 Mullani, NA, 52, 577, 898, 907, P11, P28, P86  
 Mullen, DC, 1154  
 Muller, St, P93  
 Mura, R, 302  
 Muranaka, A, P31  
 Murano, R, P58, P84  
 Murata, GH, P87  
 Murphy, PH, 542, 976  
 Murphy, PR, 932, P31, 1158  
 Myvaganam, R, P74  
 Nagai, K, P31, P127  
 Nagle, CE, P8, 876  
 Naito, K, P65  
 Najafi, A, 370  
 Najarian, JS, P96, P98  
 Nakagawa, T, P89, P96, P99  
 Nakajima, K, P27  
 Nakajima, T, P65  
 Nakajo, M, 511, 672, 732, P55, P56, 1127, P100  
 Nakamoto, S, P124  
 Nakamura, K, P89, P99  
 Nakamura, M, 136, 693  
 Nalls, G, 332  
 Napoli, CA, P46, P114  
 Narabayashi, I, P100  
 Narahara, KA, 139, P76  
 Nash, WW, 1060  
 Natarajan, AT, 615  
 Naunheim, K, 642  
 Nawaz, MK, P16  
 Neacy, W, P102  
 Nejatheid, M, P94  
 Nelp, WB, 710, P14, P58, P84, P85  
 Nelp, WB, Jr, P116  
 Nelson, SJ, P91  
 Neumann, DR, P25  
 Neumann, R, 799  
 New, PFJ, P47  
 Newhouse, MT, P113  
 Ng, CK, P52  
 Nickles, RJ, P69, P91, P104, P119, P121  
 Nickoloff, E, 862  
 Nicod, P, 492, P27, P88, P93, 1200  
 Nicolotti, RA, P123  
 Niederhuber, JE, 871, P51  
 Nilsson, JL, 326  
 Nimmon, CC, P15, P16  
 Nishikawa, M, P65  
 Nishimura, T, P4, P68  
 Nishiyama, H, P9, P104  
 Nishiyama, S, P100  
 Noelpp, U, 285  
 Nohara, R, P18  
 Nolan, NG, P57  
 Nold, JB, P40  
 Nolder, C, P61  
 Nolten, GMJ, 522  
 Norris, FS, P99  
 Norton, EF, 443, 592  
 Noujaim, AA, 1012, P110  
 Nowak, DJ, P19  
 Nunn, AD, 423  
 Nusynowitz, ML, P88  
 O'Brien, AW, 110  
 O'Brien, H, P30  
 O'Brien, HA, P28  
 O'Brien, HA, Jr, 898, 907, P24, P43  
 O'Brien, PC, 83, 165, 269, 363, 444, 535  
 O'Donnell, JK, P46, P74, P114  
 Oehr, P, P112  
 Ogata, I, 693  
 O'Grady, LF, P79  
 Ogris, E, P37, P89  
 Ohchi, M, P104  
 Ohgushi, A, P104  
 Ohmomo, Y, P123, P124  
 O'Hara, KT, P52  
 Ohta, H, P66  
 Ohtake, E, P41  
 Oiticica, C, P113  
 Okajima, K, P104  
 Okimoto, Y, P29, P48  
 Okuda, Y, P99  
 O'Leary, DH, P106  
 Olesnick, M, P70  
 Olteanu, V, P6  
 Oluwale, S, P70  
 O'Mara, RE, P42, P71  
 Ono, Y, P41  
 Oppenheim, BE, P82  
 Oravez, WT, P50  
 Orcutt, G, P11  
 Osbakken, M, 369  
 Osman, S, 39  
 Oster, Z, P15  
 Oster, ZH, 238, P24, P99, P118  
 Otsuka, FL, P123  
 Ott, MA, P24  
 Ott, R, P85  
 Ott, RJ, P103  
 Ott, SM, P84  
 Owyang, C, 511  
 Pabst, HW, P96  
 Pachinger, O, P37, P89  
 Padgett, H, P111  
 Padgett, HC, 177, 515, P121  
 Paik, CH, 932, P31, 1158  
 Pak, KY, 1158  
 Palac, R, P54  
 Paldi, JH, P53  
 Palestro, CJ, 1202  
 Palladino, E, P80  
 Palmer, DW, 979, P41  
 Pant, KD, P123  
 Park, HM, P64  
 Parker, CW, 316  
 Parker, H, P7, 332  
 Parker, JA, 258, P66, P87, P99  
 Parker, LS, 36  
 Parkey, RW, 492, P12  
 Parmley, LF, 98, 969  
 Partain, CL, P47  
 Pasculli, D, 334  
 Passamonte, PM, 997  
 Patel, A, P27  
 Patel, BR, 894, P16  
 Patel, S, P75  
 Paterson, A, 1119  
 Patronas, N, P21  
 Patronas, NJ, 367  
 Patterson, RE, P17  
 Patton, DD, 452, P66, P108  
 Patton, JA, P15  
 Paulson, OB, 17  
 Pauwels, EKJ, 388  
 Pavel, D, P26, P50, P111  
 Pawlik, G, 1188  
 Pelker, R, P60  
 Pelletteri, ML, 238  
 Pendleton, DB, P9  
 Perez, JF, 563  
 Perkins, AC, P15  
 Perkins, G, P18, P30  
 Perlman, JM, P22  
 Peters, AM, 39, P6, P79  
 Peterson, AA, P114  
 Peterson, ME, P25  
 Petras, AF, 1026  
 Pettigrew, R, P18, P30  
 Pettit, W, 549  
 Phatak, MG, 1084  
 Phelps, ME, 245, 515, 987, P11, P12, P19, P20, P21, P63, P69, P70, P81, P89, 1060, P106  
 Philippe, FA, P11  
 Philippe, JC, P37  
 Phillippe, EA, 52  
 Philpott, GW, 316  
 Piacentini, M, P5  
 Piepsz, A, P98  
 Pieralice, M, 334  
 Pierson, R, 452  
 Pilo, A, P115  
 Pinkerton, TC, P124  
 Pinsky, S, P25, P29, P50, P78, P91  
 Pirani, C, P70  
 Pistolesi, M, P71  
 Pitt, A, P36  
 Pitt, WR, 1046  
 Piyachon, C, P94  
 Plankey, M, P17, P56, P67, P68, P76  
 Pluchinotta, A, P40  
 Podrid, PJ, P62  
 Polak, JF, P62, 1065  
 Polico, C, P40  
 Politano, V, P33  
 Pollack, W, P15  
 Pollycove, M, P7, 332, 339  
 Pope, CF, P60, P89  
 Port, S, P75  
 Porter, WC, 383  
 Postley, JE, P58  
 Potchen, EJ, 863  
 Potter, BM, P23  
 Powe, J, P77, 1158  
 Powers, TA, P15  
 Powers, WJ, P59, P73, P108  
 Pozza, G, P88  
 Prato, FS, 816  
 Prenant, C, P20  
 Presant, CA, 45, P125  
 Preston, DF, P57, P95  
 Price, RR, 339  
 Pride, NB, P13  
 Prigent, F, P18, P53  
 Pritchard, J, P113  
 Probst, P, P37  
 Proffitt, RT, 45, P125  
 Prokop, EK, P57  
 Proukaus, C, 174  
 Provisor, A, 467  
 Pryor, DB, P13  
 Puigbo, JJ, 563  
 Pupi, A, P93, P94  
 Purves, P, P27  
 Pykett, IL, P47  
 Qadir, F, 683  
 Quaike, MA, P130  
 Rabinowitz, SA, P48  
 Raff, U, P67  
 Raftery, EB, P76  
 Rahimian, J, P71, P114  
 Rahimtoola, SH, P37  
 Raichle, ME, 782, 790, P22, P62, P63, 1030, P106, P108  
 Ralls, PW, P8  
 Ramanna, L, P48, P97  
 Rand, AL, P5, P20  
 Ranganathan, N, P127  
 Rao, BR, 275, 543  
 Rao, DV, 145  
 Rao, H, P114  
 Rapaport, E, P126  
 Rapaport, FT, P15  
 Rapin, J, 17, P108  
 Rapoport, S, P60, P89  
 Rapoport, SI, P107  
 Ratib, O, 987  
 Rauch, B, P20  
 Ravert, HT, P10, P43, P127  
 Ravin, CE, P13  
 Ray, G, P75  
 Raynaud, C, 17, P108  
 Rayudu, GVS, P127  
 Reavy, HJ, 39  
 Reba, RC, 932, P31, P49, P97, 1158, P116  
 Redd, RE, P41  
 Redington, R, P108  
 Regelink, E, P32  
 Reiber, JHC, P27, P93, 1099  
 Reichen, J, P126  
 Reichmann, K, P29  
 Reid, AM, 586  
 Reiffers, S, 522  
 Reilly, WM, 548  
 Reines, HD, P70  
 Reinke, FE, 1154  
 Reisman, S, P68  
 Reivich, M, 447, P21, P108  
 Rellas, JS, P12, P27, P86  
 Rembish, RA, P57  
 Remington, MM, P56  
 Replogle, RL, P29, P91  
 Reske, SN, P12, P13, P29, P118  
 Resnekov, L, P77  
 Reuter, A, P34  
 Revenaugh, J, P70  
 Reynolds, JC, P35  
 Reznick, R, P113  
 Ricci, AR, P10, P11  
 Richards, P, P24, P31, P43, P78, P118, P125, P128  
 Richardson, RL, 838  
 Richman, AH, 1202  
 Riedinger, M, P87  
 Riege, WH, P20, P21  
 Rigby, J, P48  
 Rigo, P, 886  
 Ritchie, JL, P29, P73  
 Ritenour, ER, 752  
 Ritter, C, P80  
 Robb, JA, P58  
 Robbins, PS, P76  
 Robertson, JS, 83, 165, 269, 339, 363, 444, 535, P56, P73  
 Robinson, AE, 98, 969, P44  
 Robinson, RG, P57, P95  
 Rock, E, P39  
 Roedler, D, 761

- Roedler, HD, 746  
 Roesler, H, 285  
 Rogers, C, P64  
 Rogers, CA, 1114  
 Rogers, WL, P61  
 Rogus, R, P95  
 Roizen, MD, P54  
 Rolla, AP, 749  
 Roos, JP, P5  
 Ropchan, JR, 515  
 Roper, K, P26  
 Rose, G, P106  
 Rose, JG, 36  
 Rose, V, P32  
 Rosen, AD, P21  
 Rosen, G, P112  
 Rosen, JM, 977  
 Rosen, M, 812  
 Rosen, P, P83  
 Rosen, PR, P22, P33  
 Rosenbaum, HD, 977  
 Rosenbaum, JT, 29  
 Rosenberg, RJ, 116, 1072, 1149  
 Rosenblatt, R, 753  
 Rosenquist, A, P82  
 Rosenthal, MS, P104  
 Rossi, GR, P25  
 Rottenberg, DA, 805, P107  
 Roucayrol, J-C, 529, P61, P67  
 Rougier, P, 582  
 Roulston, M, P129  
 Rousseau, AJ, P99  
 Rovekamp, MH, 212  
 Rowe, RW, 356, P67, P75  
 Rowell, KL, 722  
 Royal, HD, P6, P40, P87, P99  
 Royston, I, P15  
 Rozanski, A, P53, P87  
 Rudd, TG, 463, 803, 1202  
 Ruley, EJ, P23  
 Runge, VM, P46, P47  
 Russell, CD, 722  
 Russell, JAG, 238  
 Rwoe, RD, P32  
 Ryan, JM, P45  
 Ryan, JW, P77  
 Ryo, UY, P29, P50, P91  
 Rypins, EB, P47  
 Rzeszotarski, WJ, P116  
  
 Saccavini, JC, P14  
 Sachs, M, P13  
 Sacker, DF, P118  
 Sadek, S, P116  
 Saito, J, P31, P127  
 Saji, H, P123, P126  
 Sakai, K, 693  
 Sakimura, I, P130  
 Sako, K, P107, P108, P119  
 Salcedo, A, P103  
 Salem, D, 822, P74  
 Salit, IE, P64, 1001  
 Salmon, Y, P91  
 Salvadori, P, P52  
 Sammartano, MC, P9  
 Samosik-Mast, C, P30  
 Sampathkumaran, KS, 2, 625, P66  
 Sanabria, E, P108  
 Sandberg, D, P113  
 Sanders, JA, 894, P16  
 Sandler, CM, P129  
 Sandler, MS, 713  
 Sands, H, P28, P86, P102  
 Sands, M, P45  
 Santos, GW, P74, 1123  
 Sarfeh, JJ, P47  
 Sasaki, Y, P115  
 Sastre, J, P20  
 Sastry, KSR, 145, 1164  
 Satinger, A, P88  
 Savage, D, 548  
  
 Savarymattu, SH, 39, P6, P79  
 Savitch, I, 1119  
 Savoie, F, 1135  
 Savoie, JC, 582  
 Savoie, JD, 1135  
 Saxton, RE, P77  
 Sayle, B, P64, P72  
 Sayle, BA, 1114  
 Scanlon, P, 659  
 Schaffer, MS, P32  
 Schalch, DS, 224  
 Schapiro, JR, 922  
 Scharf, SC, 397, P34, P90  
 Schauwecker, DS, P64, P85  
 Scheffel, U, P124  
 Scheibe, PO, P24, P33, P79, P124  
 Scheibelhofer, W, P89  
 Schelbert, HR, P4, 370, 987, P12, P54, P87, P89  
 Schellekens, PThA, 615  
 Scheufelen, Ch, P112  
 Schiff, R, P7  
 Schlegel, P, P8  
 Schleren, R, P100  
 Schlom, J, P109  
 Schluenderberg, J, 1135  
 Schmall, B, 408, P40, P52, P110  
 Schmidlin, P, 104, 859  
 Schmidt, DH, P75  
 Schmidt, RP, P101  
 Schmiedek, P, P6  
 Schmittle, SE, P47  
 Schmitz, R, P65  
 Schmoliner, R, P20  
 Schneck, H-J, P96  
 Schneider, RF, P80  
 Schober, O, P71, P121  
 Scholl, H, 417  
 Schon, S, P12  
 Schreiber, GJ, 608, P42  
 Schuhmacher, J, 593  
 Schulz, EE, P107  
 Schumichen, C, P112  
 Schwaiger, M, P4, P12, P54, P89  
 Schwartz, W, P30  
 Schwarz, A, P128  
 Schweigart, U, P96  
 Schwinger, RB, P81, 1039  
 Sciacca, RR, P36  
 Scoles, P, P64  
 Seeley, GW, P66  
 Seger, RM, 997, P128  
 Seitz, D, P116  
 Sekiguchi, M, P90  
 Selberg, LA, P25  
 Selby, JB, 177, 373  
 Seldin, DW, P59, P84  
 Selikson, MH, 366, P34  
 Selin, C, P12, P19  
 Semine, AA, P96  
 Senga, O, P97  
 Serafini, A, 683, P33, P38, P74, P75, P102, P113  
 Setiawan, H, 1087  
 Sever, JL, P21  
 Sfakianakis, GN, 683, P33, P38, P64, P74, P101, P102, P113  
 Sgouros, G, 431, P90  
 Shafer, RB, 89, 700, P65, P72, 1205, P102  
 Shaffer, P, P89  
 Shah, PK, P68  
 Shampo, MA, 83, 165, 269, 363, 444, 535  
 Shapiro, B, 511, 672, 732, P49, P54, P55, P56, 1127, P100  
 Shapiro, JR, P49  
 Sharp, PF, 1046  
  
 Shaw, P, P28, P86  
 Shaw, SM, P124  
 Shearer, DR, 645  
 Shellock, FG, P68  
 Shepherd, J, P15  
 Sheridan, MB, P57  
 Sherman, PS, P42, P117  
 Shiang, H, P85  
 Shields, R, P38  
 Shih, W-J, 91, 180, 278, 376, 455, 549, 551, 650, 754, 864, 979, P70, P99, 1089, 1207, P123  
 Shimazu, A, P66  
 Shine, KI, P19  
 Shinoda, N, P96  
 Shiue, C-Y, P52, 1055  
 Shively, JE, 29  
 Shnitka, TK, 1012  
 Shreeve, WW, 545, P100  
 Shreiner, DP, 859  
 Shug, AL, P12  
 Shuler, SE, 916, P44  
 Siafarikas, K, P83  
 Siddiqui, AR, 467, P32  
 Siegel, BA, P59, P60  
 Siegel, JA, 835, P76  
 Siegel, ME, P8, P37, P130  
 Silverman, DG, P106  
 Silverman, KJ, P87  
 Silverman, N, P26  
 Simkin, PA, P85  
 Simmons, G, P70  
 Simon, G, 308  
 Simon, TR, P38, P93  
 Simoons, ML, P27, P93, 1099  
 Simor, AE, P64, 1001  
 Sisson, JC, 672, 743, P49, P54, P55, 1127, P117  
 Skinner, S, P110  
 Slagle, S, P90  
 Slavin, SA, P40  
 Slingerland, DW, 949  
 Smalling, RW, 854  
 Smith, EO, P60, P89  
 Smith, FW, P46  
 Smith, GA, 402  
 Smith, ML, 208  
 Smith, S, P59  
 Smith, T, 447  
 Smock, D, P30  
 Smoger, B, P22  
 Smoller, S, P90  
 Smuclovsky, C, P33, P102  
 Snyder, J, 659  
 Sobel, BE, 2, P5, 130, 380, P19, P20, P59, P61  
 Sobel, RE, P15  
 Sochor, H, P37, P89  
 Sodd, VJ, P9  
 Soderborg, B, 1197  
 Sodayez, JC, P66  
 Sodayez-Goffaux, F, P66  
 Sokolor, JJ, P86  
 Sollinger, HW, P55  
 Solomon, NA, 1151  
 Som, P, 231, 238, P24, P118, P125  
 Someya, K, P115  
 Song, CH, P32  
 Sonnemaker, RE, 703  
 Sordillo, EM, P110  
 Sordillo, PP, P110  
 Sorenson, JA, 264, 648  
 Sostman, D, P60, P89  
 Spann, JF, P76  
 Spence, AM, P110  
 Spence, JD, P129  
 Spence, RAJ, P79  
 Spencer, RP, 116, 976, P83, 1149  
 Spicer, JA, P57  
 Spicer, KM, P70, P91, 1023  
  
 Spigos, D, P111  
 Spitzer, VM, 8, P67, P80  
 Spoliansky, G, P38  
 Spolter, L, P77, P106  
 Sprayegen, S, 277  
 Sprinz, PG, P74  
 Srivastava, PC, P43, P118  
 Srivastava, SC, P24, P31, P78, P118, P125, P128  
 Stadalnik, RC, P24, P33, P79, P124  
 Stallworth, R, 861  
 Stark, VJ, P50, P77  
 Starling, MR, P88  
 Steinbach, JJ, P95  
 Steiner, R, P63  
 Steingart, R, P90  
 Steinkruger, FJ, P24  
 Steplewski, Z, P77, 1158  
 Sterk, C, 1199  
 Stern, HS, 835  
 Stewart, CA, P130  
 Stockigt, JR, 448  
 Stocklin, GL, 417, P42  
 Stoddard, DD, P41  
 Stoffer, SS, 119, 173  
 Stokely, EM, 644, P38, P105  
 Stone, RG, P84  
 Stone, SC, P38  
 Stone, WJ, P15  
 Stone-Elander, S, 326  
 Stotler, RE, 559  
 Straatmann, MG, P121  
 Strashun, A, P85, P94  
 Stratton, JR, P29, P73  
 Strauss, HW, 61, P4, 154, 369, 545, P37, P48, P60, P68, P87, P120, P125, P126  
 Strauss, L, 91, 180, 278, 376, 455, 551, 650, 746, 754, 864, 979, 1089, 1207, P129  
 Straw, JD, P49  
 Strife, JL, P22  
 Strodel, WE, P56  
 Studer, C, P85  
 Sturm, J, P71  
 Styles, CB, 1012, P101, P110  
 Subramanian, G, P80  
 Subramanyam, V, P9  
 Sufka, B, P46, P74  
 Sugeno, A, P97  
 Sugimura, K, P100  
 Sullivan, S, 689  
 Sun, TT, P121  
 Sundoro-Wu, BM, P40  
 Sundrehagen, E, 173  
 Sussman, HH, P32  
 Sutherland, DER, P96  
 Sutherland, JB, P126  
 Svitra, ZV, P43  
 Swan, HJC, P53, P68, P87  
 Swanson, D, 511, P49, P55, P56, P100, P118  
 Swartz, MR, P119  
 Sykes, TR, 1012  
 Syrota, A, P20  
 Sziklas, JJ, 116, 1149  
 Szpunar, WE, 119, 173  
  
 Tada, A, P27  
 Taddei, G, P5, P71  
 Tadmor, R, 1005  
 Taguchi, M, P89, P96, P99  
 Taillefer, R, P100  
 Takagi, Y, P7  
 Takahashi, K, P124  
 Takahashi, S, P115  
 Takahashi, T, P120  
 Takami, K, P104  
 Takeda, K, 829, P89  
 Taki, J, P27  
  
 Takvorian, RW, P51  
 Tallents, RH, P42  
 Talma, AG, 522  
 Tamaki, N, 274, P17, P18, P29, P48  
 Tamer, A, P113  
 Tan, W, P111  
 Tanabe, S, P23  
 Tanaka, F, P129  
 Tanaka, K, P65  
 Tanaka, T, P90  
 Tanaka, Y, P124  
 Tanasescu, D, P48, P97  
 Tangvanich, R, P94  
 Tauxe, WN, 722, 1197  
 Taveras, JM, P33  
 Taylor, A, 264, 485, P61, P64  
 Taylor, KJW, 89  
 Taylor-Papadimitriou, J, P15  
 Tazaki, H, P90  
 Teates, CD, P102  
 Teckemeyer, I, P102  
 ten Berge, RJM, 615  
 Tennison, JR, P37  
 Terner, UK, P110  
 Ter-Pogossian, MM, P5, P61  
 Tewson, T, 753  
 Tewson, TJ, 442, 718, P52  
 Thirumurthi, K, P14  
 Thom, P, P37  
 Thomas, FD, P80  
 Thomas, KE, P24  
 Thomasson, D, 187, 197  
 Thomforde, GM, P56  
 Thompson, J, P79  
 Thompson, L, P103  
 Thompson, WL, 703, P35  
 Thomson, J, 187, 197  
 Thrall, JH, 871, P19, P51, P54, P112  
 Timmis, GT, P35  
 Tin, GW, 45, P125  
 Tirer, S, P106  
 Tobes, MC, P122  
 Tobes, MD, P117  
 Todd-Pokropek, AE, P74, 1197  
 Todo, A, P29, P48  
 Tolman, GL, P126  
 Tomita, S, P29, P48  
 Tomoike, H, 693  
 Tonami, N, P27  
 Tono, M, P7  
 Torizuka, K, P17, P18, P29, P48, P65, P66, P123, P126  
 Torti, FM, P31  
 Totty, WG, P60  
 Touya, JJ, P71  
 Tow, DE, 485, P91  
 Towbin, RB, P22  
 Toyoda, S, P96  
 Trampusch, KM, 66  
 Treves, S, 258, P22, P33, P66  
 Trip, MD, P73  
 Troncale, FT, P57  
 Trotter, J, P62  
 Troutner, DE, P10, P128  
 Trow, RS, 224  
 Tsan, M-F, P74, 1123, P124  
 Tsuda, Y, 136  
 Tsugaya, M, P129  
 Tsuneoka, T, P28, P54  
 Tubiana, M, 582  
 Turner, DA, 748, P127  
 Turner, FE, 217, P38, P39  
 Tuscan, M, 871, P19, P51  
 Tutschka, PJ, 1123  
 Tutshka, P, P74  
 Tyson, IB, P83

- Tzall, WR, P36  
Tzen, KY, P112
- Uchida, T, P7  
Ueda, H, P127  
Ueda, K, P104  
Ueda, N, P123, P124  
Uliana, J, 45, P125  
Uri, BG, P58  
Usdin, J-P, 768  
Utz, JA, P72
- Vaalburg, W, 522  
Valecillos, R, 563  
Valeyre, J, P92  
Vallabhajosula, S, P85, P101  
Van Buren, CT, P129  
Vandecasteele, C, 1185  
Vanden Driessche, R, P118, P128  
Van den Winkel, P, P118  
Vanderheyden, J-L, P9  
van der Linden, W, 747  
van der Molen, HD, 522  
van der Schoot, JB, 212, P73  
van der Stee, LMAM, P10, P11  
van der Wall, EE, P5  
VanDeventer, G, 187, 197  
Vandewalle, T, 1185  
VanDort, M, P117  
van Duyvendijk, K, P27, P93  
Van Heertum, RL, P19  
Vannier, MW, 453, 1086, 1206  
Van Nostrand, D, 559  
van Royen, EA, 212, 615, 641, P73  
Vanryckeghem, W, P118, P128  
Van Sickle, DC, P124  
Van Train, K, P18, P34, P45, P53, P58, P114  
Varma, VM, P97  
Varnum, D, P120, P126  
Vasile, N, 768  
Vasquez, TE, P78  
Vaughan, S, P75  
Velchik, MG, 204, P27, P30, P92  
Venot, A, 529, P67
- Vera, DR, P24, P33, P79, P124  
Verba, J, P18, P30  
Verbist, A, P40  
Verelst, J, P98  
Vergara, M, 542, 644, 969  
Verma, RC, P7, P51  
Vicedomini, G, P88  
Vinitski, S, 816  
Vinten-Johanson, J, P4  
Virgin, J, 1197  
Virupannavar, S, P54  
Visser, C, P73  
Visser, FC, P5  
Vitale, D, P17, 1176  
Vivian, G, P16, P32, P113  
Voegelin, MR, P93, P94  
Volkert, WA, 349, 932, P10, P128  
Volpe, JJ, P22  
Von Dollen, LE, 1028  
Vorstrup, S, 17  
Vos, PH, 388  
Voss, KJ, P66  
Vossepoel, AM, 388  
Vyska, K, 22, P100
- Wachspress, J, P90  
Wackers, FJ, P28, P46, P76  
Wacksmann, J, P22  
Wagner, HN, Jr, P39, P43, P74, P91, 1123, P104, P105, P124  
Wahl, RL, 316  
Wahner, H, 454, 548, P73  
Waird, B, P15  
Wakat, MA, 172  
Wake, RH, 822, P74  
Wakefield, JA, P102  
Walker, S, 871  
Wallace, S, 297  
Wallis, WJ, P85  
Walmsley, BH, 1099  
Walsh, RA, P88  
Waltzer, W, P15  
Wanek, PM, P24  
Wang, P, P59  
Wang, TST, P31, P70, P78, P100, P125  
Ware, RW, 450, P49, P83  
Warnell, RA, P47  
Warner, TF, P55  
Washburn, LC, P121  
Washer, G, P80  
Washida, H, P129
- Wasterlain, C, P106  
Watanabe, C, P19  
Watanabe, M, P52  
Waterfield, RP, P45  
Watson, CE, P97  
Watson, DD, P36, P45  
Watson, EE, 637, P95  
Waud, JM, 498  
Waxman, A, P4, P18, P34, P48, P53, P58, P87, P97, P114  
Waxman, S, P114  
Webb, R, P18  
Webb, S, P103  
Webber, M, P51, P103  
Weber, DA, P42  
Wechsler, LR, P105  
Wegst, AV, 91, 376, 551, 650, P57, P95  
Weil, R, III, P80  
Weinberg, J, P13  
Weiner, RE, 608  
Weininger, J, P125  
Weinstein, RL, P9  
Weise, S, P119  
Weisel, RD, P64, 1001  
Weiss, M, 285  
Weiss, T, P4, P53  
Weizenberg, A, 34  
Welch, MJ, P5, 130, 380, 862, P52, P53, P59, P60, P62, P63, P73, 1030, P120, P123  
Wellman, HN, P58, P64  
Wells, CP, 641  
Wendt, RE, III, 542  
Wessels, BW, P95  
Westendorf, BA, P126  
Westera, G, P5  
Wexler, JP, 397, P90  
Wheeler, RH, P112  
White, G, P17, 1176  
White, SA, P38  
Whitfield, HN, P16  
Whitmore, WF, Jr, P40  
Wholey, MH, P13  
Wick, M, P117  
Wicks, R, P95  
Widen, L, 326  
Wiegman, T, 522  
Wieland, A, P20  
Wieland, BW, P122  
Wieland, DM, P42, P117, P118  
Wiener, SN, P25  
Wienhard, K, 1188
- Wijns, W, P27, P93, 1099  
Wilbur, DS, P43  
Wilcox, BE, P128  
Wild, WJ, P25  
Wilkie, D, P109  
Willerson, JT, 492, P12, P27, P38, P86, P93, 1200  
Williams, DL, P29  
Williams, JG, 633  
Williams, LE, 45, P125  
Williamson, BRJ, P102  
Williamson, MR, P80  
Wilmot, MD, 14  
Wilson, GA, P42, P71  
Wilson, JL, P60  
Wilson, MA, P85  
Wilson, PD, P104, P105  
Wiltshaw, E, P109  
Winchenbach, K, P57  
Winkler, C, P13, P29, P109, P112, P118  
Winniford, M, P88  
Winston, MA, 470  
Winter, J, P21  
Winzelberg, GG, P13, P39  
Wirth, N, 511, P100  
Wisneski, J, P19, P36  
Witherspoon, LR, 373, 916, 952, P44  
Witt, WS, P15  
Witztum, K, P18, P30  
Witztum, S, P63  
Woldring, MG, 522  
Wolf, AP, 238, 443, 592, P21, P52, 1055, P122  
Wolfe, CL, P86  
Wollett, FC, 1026  
Wong, CY, P42  
Wong, DF, P91, P104, P105  
Wong, DW, 173  
Wong, W-H, 52, P11  
Woo, DV, P43, P86, P117  
Woodward, DS, 775  
Woollenden, JM, P25, P108  
Wooten, WW, 278, 551, 621  
Woronowicz, EM, P19  
Wraight, EP, 747  
Wright, PW, 123, 362  
Wu, LC, P30  
Wu, RK, 835  
Wu, YL, P53  
Wu-Connolly, L, P112  
Wulf, BG, P130
- Wynchank, S, P105
- Yablonski-Peretz, T, P109  
Yamada, H, P120  
Yamada, L, P106  
Yamaguchi, N, P89  
Yamamoto, K, P118, P125  
Yamamoto, YL, 603, P107, P108, P119  
Yang, P, P39  
Yang, PJ, P51  
Yasuda, T, P4, P37, P68  
Yeatman, LA, P4  
Yeh, E-L, 1203  
Yeh, SDJ, P112  
Yeh, SH, P30, P42  
Yen, C-K, P7, 332  
Yerian, K, P11  
Yokoyama, A, P66, P123, P124, P126  
Yomoda, I, P123  
Yoneda, S, 136  
Yonekura, Y, 231, 238, P17, P18, P118, P125  
Young, AE, 641  
Young, R, P123  
Yui, T, P7  
Yuille, DL, 1154
- Zalutsky, MR, P109, P122  
Zanganeh, A, P20  
Zanzonico, PB, 408, P52, P90  
Zapf-Longo, C, P80  
Zaret, BL, P17, P60, P67, P68, P76, P89  
Zawacki, JK, P8  
Zeft, HJ, 1154  
Zelac, RE, 835  
Zemyan, SE, P10  
Zielonka, JS, P37  
Ziessman, HA, 871, P51, P112  
Zimmerman, RE, 91, 455, 922, P49, P108  
Zodda, JP, P23  
Zollman, PE, P26  
Zorba-Rivera, J, P41  
Zorich, PT, P105  
Zotti, D, 438  
Zubal, IG, P67, P75, P125  
Zucchelli, GC, P115  
Zwas, ST, 1005



**British Nuclear Medicine Society  
12th Annual Meeting**

**April 16-18, 1984**

**Imperial College**

**London, U.K.**

**Announcement and Call for Abstracts**

The British Nuclear Medicine Society announces its 12th Annual Meeting, to be held April 16-18, 1984 at Imperial College, London.

The program includes review and original presentations, specialist sessions in radiopharmacy and nuclear magnetic resonance and, for technicians, poster sessions and a commercial exhibit.

Abstracts must be prepared for direct photo-reproduction using the official abstract form.

For abstract forms and further information, contact:

Mrs. A.M. Taylor  
22 Leinster Avenue  
East Sheen  
London SW14 7JP  
England

Deadline for receipt of abstracts is January 23, 1984.

# 1983 SUBJECT INDEX

*P preceding a page number indicates an abstract of the Annual Meeting, appearing in the May issue.*

## Abdomen

Diffuse abdominal uptake of Ga-67 citrate in patient with hypoproteinemia, 508

## Ablation

Thyroid remnant ablation: questionable pursuit of ill-defined goal, 659

## Abscess

Cardiac aneurysm complicated by *E. coli* abscess, 1154

Cell kinetics In-111 PMN leukocytes in experimental abdominal abscesses in rabbits, P102

Correlation of In-111-leukocyte and Ga-67 scintigraphy with TCT, ultrasonography and plane radiography in diagnosis of focal infection, P38

Early In-111 leukocyte has a low sensitivity for detecting occult infection, P64

Imaging of inflammation with In-111 tropolonate labeled leukocytes, 39

In-111 chloride imaging in patients with suspected abscesses, P64

In-111 chloride imaging in patients with suspected abscesses, 1114

In-111 chloride imaging in the detection of osteomyelitis, P72

In-111 leukocyte imaging: review of 1,178 studies, P101

Rapid detection of intra abdominal abscesses using In-111 tropolonate labelled leucocytes, P6

Variation of In-111 white blood cell scan patterns, P103

## Adrenal glands

Adrenal scintigraphy with I-131-6-beta-iodomethyl-19-norcholesterol in primary aldosteronism, P55

[<sup>131</sup>I]iodocholesterol scintiscan and rare "functional" black adenoma of adrenal cortex, 505

Imaging of adrenal cortical carcinoma and its skeletal metastasis, 710

Normal and abnormal distribution of adrenomedullary imaging agent I-131 MIBG in man: evaluation by scintigraphy, 672

Scintigraphic localization of abnormal adrenals in primary aldosteronism, P55

Sensitivity and specificity of *m*-iodobenzylguanidine scintigraphy for the detection of pheochromocytoma, P54

Synthesis and biodistribution of radioiodinated 5-iodonitrocin, P116

Synthesis of I-131- and I-123-meta-iodobenzylguanidine for diagnosis and treatment of pheochromocytoma, P118

Value of bowel preparation in adrenocortical scintigraphy with NP-59, 732

## Adrenal medulla

Mechanisms of uptake and retention of meta-iodobenzylguanidine in adrenal medulla, P117

## Adult respiratory distress syndrome

Early diagnosis of adult respiratory distress syndrome by Tc-99m human serum albumin and portable probe, P70

## Aerosols

Comparison between sub-micronic aerosol and Xe-127 for ventilation images, P113

Rapidly changing appearance of deposited submicronic Tc-99m DTPA aerosol in smokers' lungs, P113

## Aldosteronism

Scintigraphic localization of abnormal adrenals in primary aldosteronism, P55

## Allograft

Effect of cyclosporin-A on migration of In-111 lymphocytes, P100

## Allograft, cardiac

Thallium myocardial uptake during acute cardiac allograft rejection, P29

## Allograft, pancreas

Diagnosis of early pancreas transplant rejection with In-111 oxine labeled platelets, P55

## Alzheimer's disease

Differential diagnosis of dementia with "pure" I-123 iodoamphetamine and a clinical camera, P106

Patterns of local cerebral glucose utilization in depression, multiple infarct dementia, and Alzheimer's disease, P20

## Amino acids

Biodistribution of the carboxyl carbon from some L, D, and D,L-amino acids, P120

Compartmental model for in vivo assessment of A-type amino acid transport, P90

New synthesis of C-11-aralkyl amino acids: [3-(C-11)]phenylalanine, P53

## Anastomosis, STA-MCA

Demonstrating patency of STA-MCA anastomosis with Tc-99m albumin microspheres, 136

## Aneurysms

Cardiac aneurysm complicated by *E. coli* abscess, 1154

Scintigraphic detection of ventricular aneurysm with Tl-201, 34

## Anger cameras

Count-rate variations with orientation of camera detector, 356

Evaluation of SPECT system performance using a SPECT phantom, P58

High activity Kr-81m generator-delivery system for dynamic pulmonary cinescintigrams, P25

Modular imaging system for use in nuclear medicine, P25

## Angina pectoris

Pattern of myocardial perfusion at rest in patients with unstable angina pectoris, P68

## Angiocardiography

Accuracy of deconvolution algorithms assessed by simulation studies, 258

## Angiocardiography, radionuclide

Ventricular function, mitral regurgitation and early prognosis in infants and children with cardiomyopathy, P32

## Angiography

Comparison of predischage exercise testing, Tl-201 scintigraphy and coronary angiography for identifying post-infarction patients at risk for future cardiac events, P36

## Angiography, radionuclide

Arterial perfusion with Tc-99m MAAAP in monitoring intra-arterial chemotherapy of sarcomas, 297

Blood flow ratios obtained by residue detection and linear regression, P93

Diagnosis of jugular paraganglioma by radionuclide angiography, 1005

Exercise left ventricular function in asymptomatic diabetics assessed by sequential Au-195m first pass studies, P88

Left ventricular function under "physiological" pacing: evaluation by radionuclide angiography, P89

Multiwire proportional counter gamma camera and Ta-178 radionuclide, P24

Radionuclide angiographic demonstration of systemic lung arterIALIZATION with arteriovenous fistulas, 228

Radionuclide angiography as primary investigation in chemodectoma, 475

Rapidly alternating gated cardiac blood pool and myocardial perfusion imaging using gold-195m and Th-201, P76

Re: determination of absolute LV volume from first-pass kinetics, 970 (le)

Re: determination of LV volume from first-pass kinetics of labeled red cells, 969 (le)

Repeatability of estimates of left-ventricular volume from blood-pool counts, 775

Right bundle branch block in acute transmural anterior MI: relationship of prognosis to degree of ventricular dysfunction, P68

Scintiphotosplenoportography: method for scanning portal circulation and estimating regional hepatic blood flow, P48

## Angiography, radionuclide, exercise

Maintained LV exercise response and regional wall motion abnormalities in patients on doxorubicin, P54

## Angiography, radionuclide multigated

Role of preload reserve during dynamic exercise in patients with MI, P54

## Angioplasty

Preliminary evaluation of In-111 platelet scintigraphy in patients undergoing peripheral percutaneous transluminal angioplasty, P89

## Angioplasty, balloon

Differential renal function in diagnosis of renovascular hypertension and followup of balloon angioplasty, P129

## Angioplasty, coronary

Evaluation of platelet deposition at site of coronary angioplasty using In-111 labeled platelets, P60

## Angioplasty, transluminal

Scintigraphic demonstration in patients of effect of aspirin on platelet deposition at sites of transluminal angioplasty, P60

## Angioplasty, transluminal coronary

Quantitative Tl-201 imaging before and after transluminal coronary angioplasty, P37

## Antibodies

Factors influencing DTPA conjugation with antibodies by cyclic DTPA anhydride, 1158  
In vivo binding of In-111 labeled monoclonal

- antibody (MoAb) to a human high molecular weight melanoma-associated antigen (HMW-MAA), P78
- Optimization of the DTPA mixed-anhydride reaction with antibodies at low concentration, 932
- Potential interfering antibody response in TSH assays, 173 (le)
- Antibodies, radiolabeled**
- Perchlorate blocking for radioimmunodetection, 1081 (le)
- Aortocoronary bypass grafts**
- Inhibition of thrombotic aortocoronary bypass graft occlusion with verapamil and papaverine in dogs, P60
- Aortocoronary bypass surgery**
- Creatine kinase-MB immunoradiometric assay to diagnose MI following aortocoronary bypass surgery, P35
- Arteriography**
- Detection of severe coronary heart disease with Tl-201: comparison of resting single photon emission tomography with invasive arteriography, 761
- Arthritis**
- Pathophysiology of synovial effusions: intra-articular volume, metabolism and clearance kinetics, P85
- Arthroplasty**
- Assessment of technetium and gallium scanning in patient with painful total joint arthroplasty, P84
- Comparison of radiographic and radionuclide hip arthrography in determination of femoral component loosening of conventional total hip arthroplasties, P58
- Variability of follow-up bone scans after asymptomatic total hip prostheses, P72
- Artifacts**
- Bone imaging in infections: artefacts from spectral overlap between a Tc-99m tracer and In-111 leukocytes, 589
- Polarity in a hexagonal collimator, 1203 (le)
- Uniformity artifact reduction with noncircular tomographic detector motion, P104
- Aryltrimethylsilanes**
- Applications of aryltrimethylsilanes in radiobrominations, P43
- Aseptic necrosis**
- Failure of uptake of radiocolloid by femoral heads, 116
- Astatine-211 tellurium colloid**
- Astatine-211: optimization for production of inorganic radiopharmaceuticals, P122
- Atherosclerosis**
- External imaging of human atherosclerosis, 154
- Attenuation correction**
- Accuracy of measured attenuation correction in positron tomography, P10
- Correction of attenuation in whole-body determination of Co-57 B<sub>12</sub> absorption, 949
- Determination of left-ventricular volume from first-pass kinetics of labeled red cells, 98
- Left ventricular volumes from gated radionuclide ventriculograms: attenuation correction in female and male patients, P27
- Orbiting rod source: improving performance in PET transmission correction scans, P11
- Auger electrons**
- Radiotoxicity of Tl-201 in mouse testes: inadequacy of conventional dosimetry, 145
- Autoradiography**
- Autoradiographic studies of labeled fatty acid analogs as potential myocardial imaging agents, P125
- Autoradiographic technique for simultaneous measurement of cerebral blood flow and glucose metabolism, P108
- Differential registration of two types of radionuclides on macroautoradiograms for studying coronary circulation, 693
- Direct evaluation of interrelationships of local cerebral blood flow, glucose metabolism, and protein synthesis using simultaneous multiple radionuclide autoradiography, P69
- L-[1-C-11]phenylalanine for the determination of cerebral protein synthesis rates in man with positron emission tomography, P70
- Quantitative analysis of double isotope autoradiography, P125
- Quantitative autoradiography with radiopharmaceuticals, part 1: digital film-analysis system by videodensitometry, 231
- Quantitative autoradiography with radiopharmaceuticals, part 2: applications in radiopharmaceutical research, 238
- Spiperone metabolism: significance for kinetic modeling and nonspecific binding estimates, P106
- Background subtraction**
- Optimization of dual isotope imaging techniques in immunoscintigraphy, P15
- Bayesian analysis**
- Bayesian analysis using Fourier transforms of Tl-201 scintiscans to predict the presence of CAD, P36
- Bayes theorem**
- Bayes theorem and diagnostic value of total body calcium measurements for osteoporosis, P84
- Benzodiazepine receptors**
- Br-75-labeled 1,4-benzodiazepines: potential agents for mapping of benzodiazepine receptors in vivo, 417
- Biliary atresia**
- Comparison of Tc-99m-PIPIDA with I-131 rose bengal in diagnosis of biliary atresia in neonate with direct reacting hyperbilirubinemia, P113
- Biodistribution**
- Biodistribution of the carboxyl carbon from some L, D, and D,L-amino acids, P120
- I-125-m-iodobenzoyl hydrazide: radiolabeling moiety for carbonyl-containing biomolecules, P117
- Synthesis and biodistribution of adenine[C-11], P120
- Tc-99m bifunctional chelating agent: thiolactone for coupling to biomolecules, N<sub>2</sub>S<sub>2</sub> ligand for chelation to technetium, P126
- Bladder**
- Radioimmunodetection of a transplantable human bladder cancer in a nude (athymic) mouse model, P110
- Blood-brain barrier**
- Quantitative measurement of blood brain barrier permeability following osmotic opening, P107
- Synthesis and biodistribution of neutral lipid-soluble Tc-99m complexes which cross the blood-brain barrier, P23
- Blood flow**
- Absolute quantitation of local cerebral blood flow and partition coefficient without arterial sampling, P62
- Accuracy of radionuclide cerebral perfusion scan in "brain death", P107
- Autoradiographic measurement of regional cerebral blood flow with PET validation studies, P62
- Blood flow ratios obtained by residue detection and linear regression, P93
- Brain blood flow measured with intravenous H<sub>2</sub><sup>15</sup>. I. Theory and error analysis, 782
- Brain blood flow measured with intravenous H<sub>2</sub><sup>15</sup>O. II. Implementation and validation, 790
- Can the three-phase bone scan differentiate osteomyelitis from metabolic or metastatic bone disease?, P72
- Cerebrovascular disorders using brain imaging agent, (I-123)HIPDM, and SPECT, P5
- Comparison of three-phase bone scintigraphy and Ga-67 imaging in evaluation of painful total hip prostheses, P84
- Detection of compartmental slippage in noninvasive rCBF measurements, 1188
- Differential registration of two types of radionuclides on macroautoradiograms for studying coronary circulation, 693
- Direct determination of relative renal blood flow using the Tc-99m DTPA renogram, P80
- Direct evaluation of interrelationships of local cerebral blood flow, glucose metabolism, and protein synthesis using simultaneous multiple radionuclide autoradiography, P69
- cerebral blood flow, glucose metabolism, and protein synthesis using simultaneous multiple radionuclide autoradiography, P69
- Dynamic measurement of rCBF and rCMRO<sub>2</sub> using O-15, P91
- ECG-gated blood-pool study of carotid arterial pulsation as sign of stenosis, 470
- Experience with gamma camera measurement of regional cerebral blood flow, P108
- First-pass measurements of regional blood flow with external detectors, 577
- Flow-dependence of uptake of (I-123-phenyl)-pentadecanoic acid(IP) in the canine heart, P12
- Hemodynamic results of cerebral bypass surgery measured by PET, P108
- Measurement of myocardial blood flow in man with Xe-133 during pyridamole induced coronary vasodilation, P75
- Myocardial perfusion with Rb-82. I. Measurement of extraction fraction and flow with external detectors, 898
- Myocardial perfusion with Rb-82. II. Effects of metabolic and pharmacologic interventions, 907
- N-Isopropyl I-123 p-iodoamphetamine: arterial injections, P106
- Nonuniform washout of Tl-201 (within normal range): criterion for improved detection of single vessel CAD, P46
- On-line synthesis of [<sup>15</sup>O]N<sub>2</sub>O: new blood-flow tracer for PET imaging, 603
- Peak-counts model for measuring regional myocardial blood flow with Rb-82, P86
- Potentiality of D7PHT for dynamic tomography, P75
- Quantification of regional myocardial flow with Rb-82 despite pharmacologic intervention, P28
- Quantitation of portal blood flow following portacaval shunting using Tc-99m MAA, P47
- Quantitative hepatic arterial perfusion scintigraphy and starch microspheres in cancer chemotherapy, 871
- Radiiodinated (E-1-Iodo-1-Penten-5-Yl)-triphenylphosphonium iodide: convenient preparation of attractive myocardial perfusion agent, P43
- Re: determination of absolute LV volume from first-pass kinetics (reply), 971 (le)
- Regional blood-flow measurement in rabbit soft-tissue tumor with positron imaging using C<sup>15</sup>O<sub>2</sub> steady-state and labeled microspheres, 1135
- Regional cerebral blood flow measured with I-123-labeled diamine or amphetamine and radioactive tracer microspheres, P6
- Relationship between lipophilicity and brain extraction of C-11 radiopharmaceuticals, 1030
- Scintigraphic estimation of arterial and portal blood supplies to liver, 1099
- Scintiphotosplenotomography: method for scanning portal circulation and estimating regional hepatic blood flow, P48
- Scrotal scintigraphy for the evaluation of testicular-epididymal pathology, P33
- Sequential myocardial perfusion planar imaging with Rb-82 reflecting acute changes in blood flow, P85
- Significance of collateral circulation on local myocardial perfusion in canine heart model: implications for investigation of myocardial perfusion imaging agents, P85
- Simulation study on steady-state requirements in O-15 equilibrium model for cerebral blood flow measurement, P107
- Single-photon tomography of regional brain blood flow in patients with arteriovenous malformations, P105
- SPECT brain imaging agent, (I-123)HIPDM in man with rotating gamma camera, P5
- Statistical interpretation of quantitative Tl-201 myocardial perfusion scintigraphy, P28
- Sterile Xe-133 in saline for tissue perfusion studies, 1070
- Theoretical evaluation of tomographic technique for simultaneous measurement of CBF and oxygen utilization (MRO) with O-15, P63

- Two cerebral blood flow tracers, N-isopropyl I-123 p-iodoamphetamine and I-123 HIPDM, P6
- Blood flow, radionuclide**  
Observations of serial radionuclide blood-flow studies in Paget's disease, 880
- Blood flow studies**  
Radionuclide analysis of peak filling rates during pacing-induced ischemia, P87  
Vascular emission computed tomography, P92
- Blood pool imaging**  
See also Gated blood-pool studies  
Acid-citrate-dextrose compared with heparin in the preparation of in vivo/in vitro Tc-99m RBCs, 383  
Biological fate of W-178 and Ta-178, P122  
Constant infusion of (O-15)-H<sub>2</sub>O and single breath inhalation of (C-11)-CO for the determination of extravascular lung water by PET, P121  
Contribution of atrial contraction to left ventricular filling in patients with CAD, P28  
Diagnosis of pulmonary edema by In-111 chloride lung-heart imaging, P70  
Further validation of superiority of <sup>99m</sup>Tc RBCs method over <sup>99m</sup>Tc SC in detection and localization of gastrointestinal bleeding, P49  
Gated cardiac blood pool ECT from only two coded views, P61  
Intracellular distribution of radionuclides and turnover of Cr-51, In-111, and Tc-99m-labeled RBC in dogs, P26  
New approach to Ga-67 labeling of human erythrocytes and platelets, P123  
Pharmacologic alterations in Tc-99m binding by RBCs, 397  
Potentiality of D7PHT for dynamic tomography, P75  
Rapidly alternating gated cardiac blood pool and myocardial perfusion imaging using gold-195m and Th-201, P76  
Redistribution of visceral blood volume in upright exercise in healthy volunteers, P87  
Reliability of radionuclide absolute left ventricular volume measurements, P27  
Repeatability of estimates of left-ventricular volume from blood-pool counts, 775  
Re: stability of stannous ion in stannous pyrophosphate kits (reply), 1081 (1e)  
Scrotal scintigraphy for the evaluation of testicular-epididymal pathology, P33  
Tc-99m in vitro red blood cell scintigraphy for detection and localization of gastrointestinal bleeding sites: correlation with arteriography, P99  
Tc-99m RBC scanning in the differential diagnosis of focal liver lesions, P48  
Use of indium labeled platelets to monitor platelet deposition on vascular grafts, P60
- Bone**  
Accuracy of abnormal radioisotope bone scans in children with known disseminated malignancy in remission, P113  
Bayes theorem and diagnostic value of total body calcium measurements for osteoporosis, P84  
Bone and gallium scans in mastocytosis: correlation with count rates, radiography, and microscopy, 586  
Bone imaging in infections: artefacts from spectral overlap between a Tc-99m tracer and In-111 leukocytes, 589  
Bone mass assessment at differing skeletal sites by multiple diagnostic parameters, P58  
Bone uptake of chemically diverse ligands labeled with Tin-117m in 2+ and 4+ oxidation states, P24  
Calcification of hepatic metastases, P85  
Can the three-phase bone scan differentiate osteomyelitis from metabolic or metastatic bone disease?, P72  
Comparative uptake of Ga-67 and Tc-99m MDP in benign noninfected bone lesion (fracture), P42  
Comparison of In-111 acetylacetone labeled granulocytes, Ga-67 citrate, and 3-phase MDP skeletal imaging in complicated osteomyelitis, P64  
Comparison of planar bone scintigraphy and SPECT in evaluation of patients with paranasal sinus disease, P58  
Comparison of radiographic and radionuclide hip arthrography in determination of femoral component loosening of conventional total hip arthroplasties, P58  
Comparison of Tc-99m MDP, HMDP, and DPD with respect to bone to soft-tissue ratios, 1201 (1e)  
Comparison of Tc-99m MDP, HMDP, and DPD with respect to bone to soft-tissue ratios, 1202 (1e)  
Comparison of three-phase bone scintigraphy and Ga-67 imaging in evaluation of painful total hip prostheses, P84  
Computer analysis of Tc-99m DPD and Tc-99m MDP kinetics in human, 334  
Correlative imaging of malignant external otitis, P94  
Diagnostic value of Ga-67 in detection of post-operative sternal osteomyelitis, P64  
Differential skeletal uptake of Tc-99m pyrophosphate and methylene diphosphonate in leukemia, 799  
Effect of diethylstilbestrol therapy on radioisotopic bone scan findings in patients with metastatic carcinoma of the prostate, P57  
Effect of hypophysectomy and hormonal replacement on the uptake of Tc-99m MDP in the metaphysis and shaft of the rat femur, 224  
Efficacy of bone and liver scanning in followup of patients on adjuvant chemotherapy for breast carcinoma, P109  
Evaluating painful prosthetic joint with sequential Tc-99m-MDP-Ga-67, P72  
Evaluation of 99mTc sulfur colloid (SC) hip scintigraphy in 20 symptomatic and 80 asymptomatic patients, P83  
Evaluation of post operative sternum with Ga-67 and Tc-99m medronate, P85  
Failure of uptake of radiocolloid by femoral heads, 116  
Ga-67 scanning in diagnosis of postoperative sternal osteomyelitis, 1001  
"Hot patella" sign: any clinical significance?, 312  
In-111 chloride imaging in the detection of osteomyelitis, P72  
Limitations of three phase bone scintigraphy in suspected osteomyelitis, P83  
Metastatic prostatic pulmonary nodules with normal bone scan, 1026  
Normal anatomic variant: scintigraphy of the ischiopubic synchondrosis, 14  
Observations of serial radionuclide blood-flow studies in Paget's disease, 880  
Palliation of metastatic cancer to bone with strontium-89, P57  
Plantar imaging: study of feed during Tc-99m-MDP bone scans, P83  
Preparative control, HPLC analysis, and in vivo evaluation of components of a technetium-MDP radiopharmaceutical mixture, P23  
Prospective In-111 WBC scan vs Tc-99m-MDP-Ga-67 scan for low-grade osteomyelitis. Final report, P72  
Quantitative functional and static bone scintigraphy for early detection of acute osteomyelitis in children, P83  
Radiocolloid hip scintigraphic patterns in osteonecrosis: correlation with bone scintigraphic and radiographic stages, P42  
Radiographic and scintigraphic skeletal imaging in patients with neuroblastoma, 467  
Re-186 HEDP: potential therapeutic bone agent, P125  
Relative distribution of diphosphonate between bone and soft tissue at 4 and 24 hr, 208  
Rhabdomyosarcoma concentrating Tc-99m MDP, 1082 (1e)  
Role of bone and liver scans in detecting metastases in patients of nasopharyngeal carcinoma, P112  
Role of Ga-67 citrate imaging in evaluation of nonunited fractures for osteomyelitis, P84  
Scintigraphy of primary bone neoplasia, P57  
Skeletal imaging in osteomyelitis, P71  
Skeletal imaging in temporomandibular joint disease, P42  
Skeletal scintigraphy in differential diagnosis of lower extremity pain in athletes, P41  
Solitary lesion in pediatric bone scanning, 114  
SPECT in suspected internal derangements of knee, P41  
Tc-99m HMDP and Tc-99m MDP: biological and clinical comparison, 463  
Type specific radioimmunoimaging of experimental type-B hemophilus influenzae osteomyelitis, P64  
Use of dynamic bone scanning in differential diagnosis of osteomyelitis, Paget's disease, and primary bone tumors, P83  
Use of scintillation probe in operative localization and resection of bone lesions, P84  
Walker 256 tumor for studying bone imaging agents, P124
- Bone marrow**  
Evaluation of 99mTc sulfur colloid (SC) hip scintigraphy in 20 symptomatic and 80 asymptomatic patients, P83  
Radiographic and scintigraphic skeletal imaging in patients with neuroblastoma, 467
- Book review**  
*Actualites en Radiodiagnostic—Nouvelles Technologies*, 753  
*Advances in Radiation Biology*, 646  
*Applications of Nuclear and Radiochemistry*, 862  
*Atlas of Radionuclide Hepatobiliary Imaging*, 976  
*Atlas of Sectional Human Anatomy*, 1086  
*Atlas of Total Body Radionuclide Imaging, Vol. 1 & II*, 548  
*Biomedical Thermology*, 863  
*Bone Metastasis*, 977  
*Bone Radiology Case Studies*, 977  
*Chemistry for Nuclear Medicine*, 753  
*Clinical and Mathematical Introduction to Computer Processing of Scintigraphic Images*, 1086  
*Clinical Nuclear Medicine*, 89  
*Clinical Ultrasound Reviews*, 89  
*Computed Body Tomography*, 1087  
*Computerized Tomography in the Evaluation of Trauma*, 277  
*CRC Handbook of Medical Physics Volume I*, 646  
*Critical Diagnostic Pathways in Radiology: An Algorithmic Approach*, 374  
*Diagnosis and Treatment of Bone Tumors: A Team Approach*, 1205  
*Dictionary of Radiologic Terminology*, 178  
*Digital Nuclear Medicine*, 752  
*Digital Radiography: A Focus on Clinical Utility*, 1206  
*Engymetry and Personal Computing in Nuclear Medicine (Lecture Notes in Medical Informatics)*, 453  
*Handbook of Nuclear Pharmacy*, 276  
*Handbook of Radiation Measurements and Protection Section A. Volume II. Biological and Mathematical Information*, 373  
*Head Injury*, 649  
*Imaging with Ionizing Radiations (Volume I)*, 976  
*Introductory Physics of Nuclear Medicine (2nd Ed)*, 454  
*Low-Level Radiation Effects: a Fact Book*, 752  
*Medical Diagnostic Imaging Systems: Technology and Applications*, 648  
*Medical Radiation Biology, 2nd Edition*, 862  
*Noninvasive Techniques for Assessment of Atherosclerosis in Peripheral, Carotid, and Coronary Arteries*, 977  
*Nuclear Medicine Annual 1982*, 646  
*Nuclear Medicine in Clinical Practice: Selective Correlation with Ultrasound and Computerized Tomography*, 177

- Nutritional Factors Involved in the Goitrogenic Action of Cassava*, 90
- Pathology of Radiation Injury*, 276
- Proceedings of the Third International Radiopharmaceutical Dosimetry Symposium*, 89
- Progress in Medical Radiation Physics, Vol. 1*, 178
- Progress in Radio-Oncology II*, 453
- Quality Assurance in Nuclear Medicine*, 1088
- Quality Control and Data Analysis in Binder-Ligand Assay*, 373
- Quality Control in Diagnostic Imaging*, 1087
- Radiation Damage to the Nervous System: Delayed Therapeutic Hazard*, 647
- Radioimmunoassay and Related Procedures in Medicine*, 1982, 862
- Radioimmunoassay of Gut Regulatory Peptides*, 548
- Radioisotopes in Cardiology*, 1205
- Radiology of the Emergency Patient*, 453
- Radionuclide Brain Imaging*, 373
- Radionuclide Imaging in Drug Research*, 549
- Radionuclide Metabolism and Toxicity*, 1086
- Radionuclide Section Scanning. An Atlas of Clinical Practice*, 179
- Radionuclides in Nephrology*, 452
- Recent Advances In Urologic Cancer (from International Perspectives in Urology)*, 89
- Segmental Anatomy: Applications to Clinical Medicine*, 1205
- Selected Techniques in Interventional Radiology (SMCR Series Volume 19)*, 277
- Self-Assessment of Current Knowledge in Nuclear Medicine (Second Edition)*, 549
- Shoulder Arthrography: Technique, Diagnosis, and Clinical Correlation*, 978
- Studies of Cellular Function Using Radiotracers*, 177
- Thallium-201 and Technetium-99m Pyrophosphate Myocardial Imaging in the Coronary Care Unit*, 452
- The Control of Exposure of the Public to Ionizing Radiation in the Event of Accident or Attack—Proceedings of a Symposium Sponsored by the National Council on Radiation Protection and Measurements*, 374
- Tumor Imaging: Current State of the Art and Recommendations for Future Research*, 547
- Ultrasound Annual 1982*, 753
- Uroradiology: An Integrated Approach, Vol I and II*, 863
- Vascular Malformations and Fistulas of the Brain (Seminars in Neurological Surgery)*, 548
- X-Ray Measurements and Protection, 1913-1964*, 276
- 1983 Year Book of Nuclear Medicine (The Year Book Series)*, 1205
- Boundary detection**
- Computer simulation of the effect of inaccurate boundary detection on radionuclide measurements of left ventricular volume, P93
- Brain**
- Assessment of regional cerebral blood flow in newborn with PET, P22
- Autoradiographic measurement of regional cerebral blood flow with PET validation studies, P62
- Biodistribution and dosimetry of N-isopropyl-*p*-[<sup>123</sup>I]iodoamphetamine in the primate, 922
- Biodistribution in humans and radiation dose calculations for brain perfusion imaging agent I-123 HIPDM, P95
- Brain blood flow measured with intravenous H<sub>2</sub><sup>15</sup>O. I. Theory and error analysis, 782
- Brain blood flow measured with intravenous H<sub>2</sub><sup>15</sup>O. II. Implementation and validation, 790
- Br-75-labeled 1,4-benzodiazepines: potential agents for mapping of benzodiazepine receptors in vivo, 417
- C-11 DMO: biodistribution, radiation absorbed metabolism and blood flow in rat brain with implanted tumor, P107
- Cerebral glucose utilization patterns in Wilson's disease, P21
- Cerebrovascular disorders using brain imaging agent, (I-123)HIPDM, and SPECT, P5
- C-11 glucose and utilization in PET, 326
- Comparison of NMR imaging and x-ray CT in detecting brain tumors, P47
- Computer-aided data analysis of ECT data, P82
- Continuous infusion method for determining local cerebral metabolic rate in man, P34
- Demonstrating patency of STA-MCA anastomosis with Tc-99m albumin microspheres, 136
- Detection of compartmental slippage in noninvasive rCBF measurements, 1188
- Direct evaluation of interrelationships of local cerebral blood flow, glucose metabolism, and protein synthesis using simultaneous multiple radionuclide autoradiography, P69
- Dosimetry of N-isopropyl I-123 *p*-iodoamphetamine, P49
- Dynamic measurement of rCBF and rCMRO<sub>2</sub> using O-15, P91
- Evaluation of positron tomograph designed for brain imaging, 245
- Evaluation of cerebral glucose metabolism in patients with amyotrophic lateral sclerosis by F-18 FDG and PET, P21
- Evaluation of potential myelin imaging agents using simple screening methodology, P122
- Experience with gamma camera measurement of regional cerebral blood flow, P108
- Functional response of human brain to individual and combined visual and auditory inputs, P69
- Hemodynamic results of cerebral bypass surgery measured by PET, P108
- Labeled choline and phosphorylcholine: body distribution and brain autoradiography, 812
- Local cerebral glucose consumption during cognitive activity, P21
- Local cerebral glucose metabolism in patients with affective psychiatric disorders: drug-free states and effects of methylphenidate, P21
- Measurement of local brain pH with <sup>11</sup>CO<sub>2</sub> and PET, P105
- Method for measurement of regional cerebral blood flow using short-lived tracers and ECT, P33
- Myelin imaging with PET, P62
- Necessity for correcting for cerebral atrophy in global PET measurements, P106
- Neuroleptic binding sites: specific labeling in mice with [<sup>18</sup>F]haloperidol, potential tracer for PET, 408
- New brain perfusion imaging agent: [I-123] HIPDM: N,N,N'-trimethyl-N'-[2-hydroxy-3-methyl-5-iodobenzyl]-1,3-propanediamine, 66
- On-line synthesis of [<sup>15</sup>O]N<sub>2</sub>O: new blood-flow tracer for PET imaging, 603
- Patterns of local cerebral glucose utilization in depression, multiple infarct dementia, and Alzheimer's disease, P20
- Performance study of the high sensitivity positron computed tomograph for brain, P104
- Radionuclide quantitation of CSE shunt flow in adults: emphasis on patient position, P105
- Regional cerebral blood flow measured with I-123-labeled diamine or amphetamine and radioactive tracer microspheres, P6
- Regional cerebral glucose metabolism during electric shock induced pain, P69
- Re: in vivo methods for measuring regional glucose metabolic rate, 366 (lc)
- Re: in vivo methods for measuring regional glucose metabolic rate (reply), 367 (lc)
- Re: in vivo methods for measuring regional glucose metabolic rate (reply), 367 (lc)
- Relationship between lipophilicity and brain extraction of C-11 radiopharmaceuticals, 1030
- Simultaneous measurement of regional glucose dose, and potential for PET measurement of regional brain pH, 805
- Single-photon tomography of regional brain blood flow in patients with arteriovenous malformations, P105
- Sizing of perfusion defects using N-isopropyl I-123 *p*-iodoamphetamine brain scans in acute stroke, P6
- Some observations on eye uptake of N-isopropyl I-123 *p*-iodoamphetamine: relationship to melanin production, P117
- Specific labeling in vivo of murine neuroleptic binding sites using <sup>18</sup>F-haloperidol, potential noninvasive probe for psychiatric disease, P52
- SPECT brain imaging agent, (I-123)HIPDM in man with rotating gamma camera, P5
- Synthesis and biodistribution of radioiodinated 5-iodonitrocin, P116
- Synthesis and characterization of Tc 8-quinolinolates. Potential brain imaging agents, P128
- Synthesis and evaluation of myelin tracer, P119
- Synthesis of no-carrier-added <sup>75,77</sup>Br-benperidol: potential radiopharmaceutical for quantitating cerebral dopamine receptors, P42
- Tc-99m-propyleneamine oxime: potential brain radiopharmaceutical, P128
- Tetradentate amine oxime complex of Tc-99m, P10
- Theoretical evaluation of tomographic technique for simultaneous measurement of CBF and oxygen utilization (MRO) with O-15, P63
- Two cerebral blood flow tracers, N-isopropyl I-123 *p*-iodoamphetamine and I-123 HIPDM, P6
- Xc-133 DSPECT in unilateral cerebrovascular disease. Comparative study to transmission CT and x-ray angiography, P6
- Brain death**
- Accuracy of radionuclide cerebral perfusion scan in "brain death", P107
- Breast**
- Efficacy of bone and liver scanning in followup of patients on adjuvant chemotherapy for breast carcinoma, P109
- I-[E-18]-Fluoropentestrol: synthesis and preliminary tissue uptake studies of a positron-emitting estrogen in rats, P52
- Internal mammary lymphoscintigraphy in breast cancer, P40
- Palliation of metastatic cancer to bone with strontium-89, P57
- Properties of I-125 labeled 11-β-methoxy-17-α-iodovinyl estradiol (IMOX), P49
- Radioimmunolocalization of human mammary tumor transplants using monoclonal antibodies, P109
- ROC-analysis of single or combined CEA and TPA determination in a wide spectrum of cancer patients, P112
- Unexpected breast uptake of Tc-99m PIPIDA, 861 (lc)
- Breathing systems**
- Quantitative evaluation of breathing systems used with Kr-81m generators, 157
- Bromine, 75**
- Synthesis of no-carrier-added <sup>75,77</sup>Br-benperidol: potential radiopharmaceutical for quantitating cerebral dopamine receptors, P42
- Bromine-75**
- Br-75-labeled 1,4-benzodiazepines: potential agents for mapping of benzodiazepine receptors in vivo, 417
- Bromine-77**
- Synthesis of no-carrier-added <sup>75,77</sup>Br-benperidol: potential radiopharmaceutical for quantitating cerebral dopamine receptors, P42
- Bulimia**
- Definition of spectrum of gastric emptying in patients with bulimia, P56
- Bypass, cerebral**
- Hemodynamic results of cerebral bypass surgery measured by PET, P108
- Cadmium-115**
- New Cd-115 → In-115m radionuclide generator, 349

- Calcium-45**  
Double-isotope in vivo measurement of intestinal calcium absorption in phosphate/vitamin D deficient rats, P45
- Calcium-47**  
Double-isotope in vivo measurement of intestinal calcium absorption in phosphate/vitamin D deficient rats, P45
- Calcium absorption**  
Double-isotope in vivo measurement of intestinal calcium absorption in phosphate/vitamin D deficient rats, P45
- Captopril**  
Effect of captopril on efficacy of renal scintigraphy in detection of renal artery stenosis, P23
- Carbon-11**  
Biodistribution of the carboxyl carbon from some L, D, and D,L-amino acids, P120  
C-11 ligand binding to adrenergic and muscarinic receptors of the human heart studied in vivo by PET, P20  
Measurement of cerebral blood flow with C-11 butanol and PET, P63  
Measurement of local brain pH with  $^{11}\text{CO}_2$  and PET, P105  
Relationship between lipophilicity and brain extraction of C-11 radiopharmaceuticals, 1030
- Carbon-11 adenine**  
Synthesis and biodistribution of adenine[C-11], P120
- Carbon-11  $\alpha$  aminoisobutyric acid**  
Compartmental model for in vivo assessment of A-type amino acid transport, P90
- Carbon-11 DMO**  
Biodistribution, radiation dosimetry and potential of C-11 dimethylxazolidinedione for PET, P107  
C-11 DMO: biodistribution, radiation absorbed dose, and potential for PET measurement of regional brain pH, 805
- Carbon-11 glucose**  
C-11 glucose and utilization in PET, 326
- L-[1- $^{11}\text{C}$ ]Leucine**  
L-[1- $^{11}\text{C}$ ]Leucine: routine synthesis by enzymatic resolution, 515
- Carbon-11 palmitate (CPA)**  
Tracer kinetic model of C-11 palmitate (CPA) for estimating regional free fatty acid (FFA) utilization in myocardium, P12
- Carbon-11 palmitic acid**  
Noninvasive evaluation of regional myocardial fatty acid metabolism in man with C-11 palmitic acid and positron-CT, P12
- Carbon-11 phenylalanine**  
New synthesis of C-11-alkaryl amino acids: [3-(C-11)]phenylalanine, P53
- Carbon-11 thymidine**  
The Dunning R3327G prostatic adenocarcinoma tumor model: tumor-localization of radiolabeled thymidine, potential agent for imaging with PET, P40
- Carbon-11 tryptophan**  
C-11-L-tryptophan, potential agent for diagnosis of pancreatic disease using PET, P121
- Carbon-14**  
Hepatic uptake and fate of I-123- or C-14-fatty acids in ethanol-fed mice, P100
- Carbon-14 AIB**  
Human melanoma heterotransplants in nude mice: tumor-localization of radiolabeled  $\alpha$ -aminoisobutyric acid potential agent for imaging with PET, P110
- Carbon-14 BMHDA**  
Metabolic fate of I- C-14 betamethylheptadecanoic acid and I- C-14 palmitic acid in mice heart and blood, P120
- Carbon-14 palmitic acid**  
Metabolic fate of I- C-14 betamethylheptadecanoic acid and I- C-14 palmitic acid in mice heart and blood, P120
- Carcinoembryonic antigen (CEA)**  
Carcinoembryonic antigen: assay following heat compared with perchloric acid extraction in patients with colon cancer, non-neoplastic gastrointestinal diseases, or chronic renal failure, 916  
Carcinoembryonic antigen kinetics and their implications for tumor imaging, P111  
Comparison of In-111 labeled Fab and whole In-111 anti-CEA monoclonal antibody (MoAb) in normal mouse: human colon tumor models, P77  
Is immunoscintigraphy using radioiodinated monoclonal antibodies useful to cancer diagnosis?, P14  
ROC-analysis of single or combined CEA and TPA determination in a wide spectrum of cancer patients, P112
- Cardiomyopathy**  
Myocardial metabolic studies in patients with cardiomyopathy, P20  
Radionuclide evaluation of left-ventricular function in chronic Chagas' cardiomyopathy, 563  
Ventricular function, mitral regurgitation and early prognosis in infants and children with cardiomyopathy, P32
- Carotid arterial pulsation**  
ECG-gated blood-pool study of carotid arterial pulsation as sign of stenosis, 470
- Catecholamines**  
Inverse relationship between cardiac accumulation of I-131 MIBG and circulating catecholamines in suspected pheochromocytoma, 1127
- Cation transport, monovalent**  
Neonatal rat myocytes in tissue culture as a model for study of monovalent cation transport, P86
- Cell labeling**  
Cell labeling: radiation dose and effects, 637
- Cerebral blood flow**  
Autoradiographic technique for simultaneous measurement of cerebral blood flow and glucose metabolism, P108  
Cerebral blood-flow tomography: Xe-133 compared with isopropyl-amphetamine-I-123, 17  
Effect of methyl dopa or propranolol on cerebral blood flow in hypertensive patients, P130  
Measurement of cerebral blood flow with C-11 butanol and PET, P63  
Method for measurement of regional cerebral blood flow using short-lived tracers and ECT, P33  
Necessity for correcting for cerebral atrophy in global PET measurements, P106
- Cerebral infarct**  
C-11 glucose and utilization in PET, 326
- Cerebral ischemia**  
I-123 *N*-isopropyl amphetamine (I-123 AMP) SPECT in epilepsy and cerebral ischemia, P108
- Cerebral metabolic rate**  
Continuous infusion method for determining local cerebral metabolic rate in man, P34
- Cerebral metabolism**  
Local cerebral glucose consumption during cognitive activity, P21
- Cerebrospinal fluid**  
Radionuclide quantitation of CSE shunt flow in adults: emphasis on patient position, P105
- Chagas' disease**  
Radionuclide evaluation of left-ventricular function in chronic Chagas' cardiomyopathy, 563
- Chemodectoma**  
Radionuclide angiography as primary investigation in chemodectoma, 475
- Chemotherapy**  
Arterial perfusion with Tc-99m MAAAP in monitoring intra-arterial chemotherapy of sarcomas, 297  
Intraarterial cancer chemotherapy, arterial occlusion, and Tc-99m MAA perfusion scintigraphy, 966  
Quantitative hepatic arterial perfusion scintigraphy and starch microspheres in cancer chemotherapy, 871  
Xe-133 tumor blood flow and Tc-99m-MAA perfusion scintigraphy in head and neck tumors, P112
- Cholecystitis**  
Cholescintigraphy vs sonographic Murphy's sign in suspected acute cholecystitis, P9
- Cholecystokinin**  
Abnormal gallbladder emptying in response to cholecystokinin (OP-CCK) in patients with acalculus gallbladder disease, P8  
Filling, postcholecystokinin emptying, and refilling of normal gallbladder: effects of two different doses of CCK on refilling, 666  
Simplified scintigraphic technique for establishing dose response curve of cholecystokinetic agent, P39
- Cholescintigraphy**  
Diagnosis of clinically unsuspected gallbladder perforation in obese patient, by Tc-99m IDA cholescintigraphy, 1028  
Use of pinhole collimator and analog motion correction in cholescintigraphy, P94
- Choline**  
Labeled choline and phosphorylcholine: body distribution and brain autoradiography, 812
- Chromium-51**  
Intracellular distribution of radionuclides and turnover of Cr-51, In-111, and Tc-99m-labeled RBC in dogs, P26
- Cirrhosis**  
Evaluation of "portal scintigraphy" by intestinal administration of Tc-99m using endoscopy in liver cirrhosis, P48
- Collimator**  
See also Slant-hole collimator; Slant-hole collimator, variable angle  
Collimator choice for differential uptake measurements using SPECT imaging with I-123, P75  
Comparative tomographic imaging performance of hybrid coded-aperture/parallel-plate stationary collimator and rotating camera, P25  
Performance of collimators used for tomographic imaging of I-123 contaminated with I-124, 1065  
Quantitation of pinhole thyroid scans, P96  
Use of pinhole collimator and analog motion correction in cholescintigraphy, P94
- Collimator, hexagonal**  
Polarity in a hexagonal collimator, 1203 (1e)
- Colon**  
Carcinoembryonic antigen: assay following heat compared with perchloric acid extraction in patients with colon cancer, non-neoplastic gastrointestinal diseases, or chronic renal failure, 916  
Elective liver therapy with P-32 chromic phosphate colloid in high risk colon cancer, P111  
Radioimmunodetection and treatment of human colon cancer in nude mice using a monoclonal antibody, P110  
Tc-99m MDP and Ga-67 citrate accumulation in cutaneous metastases from colon carcinoma, 1202 (1e)
- Compton scattering**  
Subtraction of scattered events from SPECT photopeak events, P82
- Computed tomography**  
Comparison of NMR imaging and x-ray CT in detecting brain tumors, P47  
Correlative morphological and functional studies of brain in man, utilizing CT, NMR and PET imaging, P108
- Computers**  
Array processors: introduction to their architecture, software, and applications in nuclear medicine, 1072  
Computer analysis of Tc-99m DPD and Tc-99m MDP kinetics in human, 334  
Modified composite video signal generator for gamma 11 computing system, 838  
Technical factors in gastric emptying studies, 264

# Computers, software

- Accuracy of deconvolution algorithms assessed by simulation studies, 258
- Comparison of interpolating methods for image resampling, P66
- Comprehensive method for fast quantitative analysis of gamma camera distortions and their correction, P67
- Computer interface for collecting analog physiologic data in nuclear medicine computer system, P91
- Computer-quantitated renal uptake vs. plasma clearance of Tc-99m DTPA in rats with and without glomerular damage, P80
- Computer simulation of the effect of inaccurate boundary detection on radionuclide measurements of left ventricular volume, P93
- Critical assessment of first harmonic Fourier phase analysis for detecting CAD during atrial pacing, P88
- Differentiation of obstructive from nonobstructive jaundice by deconvolutional analysis of hepatobiliary scans, P30
- Digital methods for change detection in scintigraphic images, P67
- Esophageal motility: computer analysis of scintigraphic studies, P98
- Fast count-dependent digital filtering of nuclear medicine images, 1039
- Fast wiener digital post-processing of SPECT images, P81
- "Figure-of-merit" approach to evaluation of algorithms for ECT, P82
- First-pass extraction of *N*-isopropyl-1-123 *p* amphetamine by the human lung determined by a dual-isotope dilution technique, P114
- Four chamber timing analysis in patients with programmable A-V sequential pacemakers using multiharmonic Fourier analysis of gated images, P92
- GA-67 lung scanning in the evaluation of pulmonary sarcoid alveolar activity, P14
- Hemodynamics of heterotopic heart transplants, P91
- Imaging techniques for advanced data evaluation in NMR-tomography, P109
- Nonorthogonal factor analysis in gated cardiac studies, P62
- Normal limits for the quantitative analysis of stress TI-201 myocardial scintigrams: multicenter validation, P45
- Optimum order harmonics of Fourier analysis in multigated blood-pool studies, P17
- Phenomenological approach to virtual distribution volume kinetics and clearance estimation, P91
- Potentiality of D7PHT for dynamic tomography, P75
- Quantitative analysis of double isotope autoradiography, P125
- Quantitative analysis of liver function in percutaneous transhepatic drainage patients, P30
- Quantitative autoradiography with radiopharmaceuticals, part 1: digital film-analysis system by videodensitometry, 231
- Rapid digital filtering, 625
- Rapid digital filtering, P66
- Re: attenuation compensation in single-photon emission tomography: comparative evaluation, 644 (1e)
- Re: attenuation compensation in single-photon emission tomography: comparative evaluation, 644 (1e)
- Re: interpretation of multigated Fourier functional images (reply), 542 (1e)
- Relative accuracy of automated analysis of regional wall motion in diagnosis of CAD, P91
- Simple system for generating non-circular orbits in SPECT in order to reduce the importance of uniformity artefacts, P74
- Use of a cardiac phantom for QC checks of camera/computer systems, P59

# Congenital heart disease

- Fourier analysis of multigated blood-pool data in patients with congenital heart disease, P89

# Congestive cardiomyopathy

- Myocardial imaging and metabolic studies with [17-123I]iodoheptadecanoic acid in patients with idiopathic congestive cardiomyopathy, 22

# Conjoined twins

- Radionuclides in investigation of conjoined twins, 479

# Copper-67

- Development of Cu-67 chelate conjugated monoclonal antibodies for radioimmunotherapy, P30

# Coronary artery disease (CAD)

- Analysis of cardiac diastolic function: application in CAD, 2
- Bayesian analysis using Fourier transforms of TI-201 scintiscans to predict the presence of CAD, P36
- Clearance-patterns of 15(p-T-123 phenyl)-pentadecanoic acid (IP) in patients with CAD after bicycle exercise, P13
- Comparison of rotational tomography with planar imaging for TI-201 stress myocardial scintigraphy, P18
- Comparison of supine bicycle and dobutamine radionuclide cardiac stress testing: technical considerations, P54
- Contribution of atrial contraction to left ventricular filling in patients with CAD, P28
- Critical importance of left lateral and left posterior oblique views for evaluating regional wall motion with multigated cardiac blood-pool imaging in acute MI, P68
- Detection and localisation of single vessel coronary disease: biplanar exercise radionuclide ventriculography or TI-201 myocardial imaging?, P36
- Detection of acute coronary thrombosis in patients with use of In-111 labeled platelets, P59
- Detection of coronary artery disease at rest using peak systolic pressure-end systolic volume indices, P76
- Detection of severe coronary heart disease with TI-201: comparison of resting single photon emission tomography with invasive arteriography, 761
- Diagnostic value of image processing in myocardial scintigraphy, 768
- Dynamic cardiac studies with super PETT I, P61
- High risk subgroup of inferior MI: importance of anterior wall motion and right ventricular function, P68
- Nonuniform washout of TI-201 (within normal range): criterion for improved detection of single vessel CAD, P46
- Positron-CT for evaluation of myocardial metabolism after reperfusion in chronic dogs, P4
- Radionuclide analysis of peak filling rates during pacing-induced ischemia, P87
- Relative accuracy of automated analysis of regional wall motion in diagnosis of CAD, P91
- Scintigraphic quantitation of myocardial ischemia, P19
- Significance of estimating redistribution of pulmonary perfusion in CAD, P90
- SPECTrum of TI-201 imaging in CAD, 854
- Time of onset of stress-induced left ventricular wall motion abnormalities aids in the prediction of the presence and severity of CAD, P53
- TI-201 kinetics shortly after termination of exercise: implications for quantitative analysis, P46
- Values and limitations of segmental analysis of stress and redistribution TI-201 ECT for location of CAD, P18

# Coronary occlusion

- Tc-99m PPI in ischemic and infarcted dog myocardium in early stages of acute coronary occlusion: histochemical and tissue-counting comparisons, 485

# Coronary thrombolysis

- Restoration of myocardial perfusion and metabolism with PET after coronary thrombolysis, P5

# Creatine kinase

- Clinical utility of two-site immunoradiometric assay for creatine kinase-MB in detection of perioperative myocardial infarction, 703

# Crohn's disease

- Delayed gastric emptying in pediatric patients with Crohn's disease and growth failure, P56

# Cushing's syndrome

- [131I]iodocholesterol scintiscan and rare "functional" black adenoma of adrenal cortex, 505
- Imaging of adrenal cortical carcinoma and its skeletal metastasis, 710

# Cyclosporin-A

- Effect of cyclosporin-A on migration of In-111 lymphocytes, P100
- Radionuclide detection of cyclosporin A nephrotoxicity in renal transplant patients, P129

# Cystography

- Accuracy of indirect (IV) radionuclide cystogram in children, P23

# Dacryoscintigraphy

- Scintigraphic evaluation of lacrimal drainage in children, P22

# Deconvolution

- Accuracy of deconvolution algorithms assessed by simulation studies, 258

# Deconvolution analysis

- Differentiation of obstructive from nonobstructive jaundice by deconvolutional analysis of hepatobiliary scans, P30

# Deferoxamine

- Preparation and basic study of <sup>67</sup>Ga-DE-fragment E(1,2) for the detection of thrombus, P123
- Preparation and biodistribution of Ga-67 fibrinogen conjugated with water-soluble polymer containing deferoxamine: new approach to protein labeling, P124

# Dementia

- Differential diagnosis of dementia with "pure" 1-123 iodoamphetamine and a clinical camera, P106

# Desferrioxamine

- Ga-67 and desferrioxamine: time and dose effects on blood clearance and urinary excretion, P102

# Diabetes

- Exercise left ventricular function in asymptomatic diabetics assessed by sequential Au-195m first pass studies, P88

# Diethylenetriaminepentaacetic acid (DTPA)

- Optimization of the DTPA mixed-anhydride reaction with antibodies at low concentration, 932

# Diethylstilbestrol

- Effect of diethylstilbestrol therapy on radioisotopic bone scan findings in patients with metastatic carcinoma of the prostate, P57

# Digital filtering

- Fast count-dependent digital filtering of nuclear medicine images, 1039
- Rapid digital filtering, 625
- Rapid digital filtering, P66

# Digital image processing

- Array processors: introduction to their architecture, software, and applications in nuclear medicine, 1072

# Distribution functions

- Effect of diastasis frames exclusion on error corrected phase distribution function, P92

# Diuresis

- Obstructive nephropathy: comparison of parenchymal transit time index and frusemide diuresis, P16

# Dobutamine

- Comparison of supine bicycle and dobutamine radionuclide cardiac stress testing: technical considerations, P54

**Dopamine receptors**

- Measurement of dopamine receptor densities, P70
- Neuroleptic binding sites: specific labeling in mice with [<sup>18</sup>F]haloperidol, potential tracer for PET, 408
- No-carrier-added (NCA) <sup>18</sup>F-spiroperidol, P52
- Specific labeling in vivo of murine neuroleptic binding sites using <sup>18</sup>F-haloperidol, potential noninvasive probe for psychiatric disease, P52
- Spiroperidol metabolism: significance for kinetic modeling and nonspecific binding estimates, P106
- Synthesis of no-carrier-added <sup>75,77</sup>Br-benperidol: potential radiopharmaceutical for quantitating cerebral dopamine receptors, P42

**Dosimetry**

- Absorbed dose calculations for radiolabeled tumor associated monoclonal antibodies, P95
- Biodistribution and dosimetry of N-isopropyl-*p*-[<sup>123</sup>I]iodoamphetamine in the primate, 922
- Biodistribution in humans and radiation dose calculations for brain perfusion imaging agent I-123 HIPDM, P95
- Biological analysis and dosimetry for <sup>15</sup>O-labeled O<sub>2</sub>, CO<sub>2</sub>, and CO gases administered continuously by inhalation, 431
- "Biological dosimetry" of radionuclides and radiation hazards, 160
- Cell labeling: radiation dose and effects, 637
- Dosimetry of anti-colon carcinoma monoclonal antibody F(ab')<sub>2</sub> fragments in humans, P49
- Dosimetry of I-131 labeled metaiodobenzylguanidine in treatment of malignant pheochromocytomas, P49
- Dosimetry of N-isopropyl I-123 *p*-iodoamphetamine, P49
- Radiation absorbed doses from iron-52, iron-55, and iron-59 to study ferrokinetics, 339
- Radiation dose calculations for inhalation of Tc-99m sulfur colloid radioaerosol, 816
- Radiation dose estimates for oral agents used in upper gastrointestinal disease, 835
- Radionuclide kinetics in MIRD dose calculations, 621
- Radiotoxicity of Tl-201 in mouse testes: inadequacy of conventional dosimetry, 145
- Re: the radiation dosimetry of 2-[F-18]fluoro-2-deoxy-D-glucose in man, 447 (le)
- Re: the radiation dosimetry of 2-[F-18]fluoro-2-deoxy-D-glucose in man (reply), 447 (le)
- Tl-201: experimental and theoretical radiobiological approach to dosimetry, 1164
- Uncertain specific gamma-ray constant for Tl-201, 645 (le)
- Verification of absorbed fraction values with chemical dosimetry, P50

**Double-tracer autoradiogram**

- Simultaneous measurement of regional glucose metabolism and blood flow in rat brain with implanted tumor, P107

**Doxorubicin**

- Maintained LV exercise response and regional wall motion abnormalities in patients on doxorubicin, P54

**Drugs, interference reactions**

- Pharmacologic alterations in Tc-99m binding by RBCs, 397

**Echocardiography**

- Effect of doxorubicin on [ω-I-131]heptadecanoic acid myocardial scintigraphy and echocardiography in dogs, 1012

**Editorial**

- The World Federation of Nuclear Medicine and Biology Third World Congress, 97 (le)

**Ejection fraction**

- Association of biliary cholesterol crystals and gallbladder ejection fraction, P8
- Clinical prediction of left ventricular ejection fraction (LVEF), P90
- Clinical validation of fully automated computation of ejection fraction from gated equilibrium blood-pool scintigrams, 1099
- Clinical validation of totally automated method for assessing regional left ventricular function

- from rest/exercise radionuclide ventriculography, P53
  - Effects of improper camera operation on ejection fraction measurements, P103
  - Exercise left ventricular function in asymptomatic diabetics assessed by sequential Au-195m first pass studies, P88
  - Functional recovery of LVEF and RVEF following streptokinase reperfusion: relation to timing and impacts of LAD/RCA reopening, P4
  - Improved interpretation of Tc-99m gated sequentially graded exercise angiographic data using multivariate analysis, P53
  - Influence of scatter on quantitative determination of LVEF in gated cardiac scans, P103
  - Limitations of count-based REF as a means of assessing regional left ventricular function in transmural MI, P17
  - Maintained LV exercise response and regional wall motion abnormalities in patients on doxorubicin, P54
  - Multi-hospital survey of reliability of ejection fraction determination using a cardiac phantom, P92
  - Multiwire proportional counter gamma camera and Ta-178 radionuclide, P24
  - Optimization of ceruletide intravenous dose for gallbladder emptying, P38
  - Quantitative biliary dynamics: introduction of new noninvasive scintigraphic technique, 217
  - Radionuclide evaluation of ventricular function in patients with L-transposition of great arteries, P87
  - Re: determination of LV volume from first-pass kinetics of labeled red cells, 969 (le)
  - Slow infusion gated acquisition: alternative first-pass method for determining left ventricular ejection fraction, P88
  - Ventricular function, mitral regurgitation and early prognosis in infants and children with cardiomyopathy, P32
- Electrocardiogram (ECG) gating**
- Postextrasystolic potentiation in dog ventricle using radionuclide ventriculography, P62
  - Role of preload reserve during dynamic exercise in patients with MI, P54
- Emission computed tomography**
- Accuracy of measured attenuation correction in positron tomography, P10
  - Application of the Budinger equation to evaluate signal to noise ratios of single photon emission tomographic systems, P74
  - Comparative tomographic imaging performance of hybrid coded-aperture/parallel-plate stationary collimator and rotating camera, P25
  - Computer-aided data analysis of ECT data, P82
  - ECT of heart using rotating slant-hole collimator and two orthogonal camera positions, P61
  - Effect of resolution improvement on required count density in emission computed tomography, P11
  - Ga-67 emission tomography in detection of suspected pulmonary lesions, P114
  - Hexagonal bar positron camera, P11
  - Measurements of regional tissue and blood-pool radiotracer concentrations from serial tomographic images of heart, 987
  - Method for measurement of regional cerebral blood flow using short-lived tracers and ECT, P33
  - Myelin imaging with PET, P62
  - N-Isopropyl I-123 *p*-iodoamphetamine: arterial injections, P106
  - Potentiality of D7PHT for dynamic tomography, P75
  - Preliminary results obtained with TOFPET I: whole-body time of flight PET, P11
  - Quantitation of pulmonary gallium uptake in patients with interstitial lung disease using ECT, P114
  - Re: attenuation compensation in single-photon emission tomography: comparative evaluation, 644 (le)

- Simulation study on steady-state requirements in O-15 equilibrium model for cerebral blood flow measurement, P107
  - True three-dimensional reconstruction in single photon emission computed tomography, P81
  - Uniformity artifact reduction with noncircular tomographic detector motion, P104
  - Values and limitations of segmental analysis of stress and redistribution Tl-201 ECT for location of CAD, P18
  - Vascular emission computed tomography, P92
- Endocarditis**
- Re: Tc-99m antibodies and staphylococcal endocarditis, 173 (le)
  - Re: Tc-99m antibodies and staphylococcal endocarditis (reply), 173 (le)
- Endotoxin**
- Distribution of radiolabeled endotoxin in the eye, 29
  - Uniform bacterial endotoxins test for radiopharmaceuticals, P123
- Enzymatic resolution**
- L-[1-<sup>11</sup>C]Leucine: routine synthesis by enzymatic resolution, 515
- Epilepsy**
- I-123 *N*-isopropyl amphetamine (I-123 AMP) SPECT in epilepsy and cerebral ischemia, P108
- Errata**
- Absorbed dose estimates for PET: C<sup>15</sup>O, <sup>11</sup>CO, and CO<sup>15</sup>O, 555
  - Author Index and Subject Index, 7
  - [<sup>11</sup>C] spiroperidol: synthesis, specific activity determination, and biodistribution in mice, 443
  - [<sup>11</sup>C]Spiroperidol: synthesis, specific activity determination, and biodistribution in mice, 592
  - Imaging of melanoma with I-131-labeled monoclonal antibodies, 362
  - Introductory Physics of Nuclear Medicine, 588
  - Noninvasive detection of coronary thrombi with In-111 platelets, 380
- Erythrocytes**
- New approach to Ga-67 labeling of human erythrocytes and platelets, P123
- Esophageal emptying**
- Characteristic pattern of esophageal emptying in obstructive lesions of the esophagus, P39
- Esophageal function**
- Radionuclide esophagogram (Tc-99m-SC) in experimental esophagitis: manometric and histopathologic correlations, P100
- Esophageal transit time**
- Assessment of esophageal transit in adults and in children by means of Kr-81m, P98
  - Esophageal motility: computer analysis of scintigraphic studies, P98
- Esophagus**
- Correlative study of liquid phase radionuclide esophageal transit scintigraphy with radiographic, manometric and endoscopic parameters in patients with suspected esophagitis, P39
- Estrogen receptors**
- I-[E-18]-Fluoropentestrol: synthesis and preliminary tissue uptake studies of a positron-emitting estrogen in rats, P52
  - Estrogen receptor binding radiopharmaceuticals: II. Tissue distribution of 17α-methylestradiol in normal and tumor-bearing rats, 522
  - Properties of I-125 labeled 11-β-methoxy-17-α-iodovinyl estradiol (IMOX), P49
  - Radiiodinated estrogens: preparation and evaluation of 17 α-iodovinyl and iodothenyl estradiols, P116
  - Synthesis of 16α-fluoroestradiol using fluoride ion as source of fluorine, P52
- Exercise**
- Scintigraphic evaluation of muscle damage following extreme exercise, 308
- Eye**
- Distribution of radiolabeled endotoxin in the eye, 29
  - Effect of carrier amphetamine and K1 on the biodistribution of iodoamphetamine, P118



- Some observations on eye uptake of N-isopropyl 1-123 *p*-iodoamphetamine: relationship to melanin production, P117
- Fallopian tube patency**  
Radionuclide hysterosalpingography: promising new technique for evaluation of fallopian tube patency, P38
- Fast atom bombardment mass spectrometry (FABMS)**  
Investigation of radiopharmaceutical components by fast atom bombardment mass spectrometry: identification of Tc-HIDA and epimers of Tc-CO<sub>2</sub>DADS, 353
- Fatty acid metabolism**  
General model for the measurement of metabolism with analog tracers, P34  
Myocardial imaging and metabolic studies with [17-<sup>123</sup>I]iodoheptadecanoic acid in patients with idiopathic congestive cardiomyopathy, 22  
New rapid, regiospecific synthesis of [<sup>123</sup>I]-labeled 15-(*p*-iodophenyl)pentadecanoic acid, P43  
Noninvasive evaluation of regional myocardial fatty acid metabolism in man with C-11 palmitic acid and positron-CT, P12
- Fatty acids**  
Autoradiographic studies of labeled fatty acid analogs as potential myocardial imaging agents, P125  
Fast low-temperature ultrasonic preparation, purification and clinical applications of  $\omega$ -1-123-heptadecanoic acid, P118  
Hepatic uptake and fate of I-123- or C-14-fatty acids in ethanol-fed mice, P100  
On behalf of I-123 fatty acids for myocardial metabolic imaging, 545 (le)  
On behalf of I-123 fatty acids for myocardial metabolic imaging (reply), 546  
Rate-limiting step in myocardial clearance of label from 16-iodohexadecanoic acid (IHDA), P12
- Ferritin**  
In vitro transfer of Ga-67 from transferrin to ferritin, 608
- Ferrokinetics**  
Radiation absorbed doses from iron-52, iron-55, and iron-59 to study ferrokinetics, 339
- Fibrinogen**  
Preparation and biodistribution of Ga-67 fibrinogen conjugated with water-soluble polymer containing deferroxamine: new approach to protein labeling, P124
- Fistula**  
Radionuclide angiographic demonstration of systemic lung arterialization with arteriovenous fistulas, 228  
Scintigraphic demonstration of tracheoesophageal fistula, 1151
- Fistulas, aortoduodenal**  
Rupture of a spontaneous aortoduodenal fistula visualized with Tc-RBC scintigraphy, 332
- Fluorine-15 methyl fluoride**  
Absolute quantitation of local cerebral blood flow and partition coefficient without arterial sampling, P62
- Fluorine-18**  
Fully automated synthesis systems of radiopharmaceuticals labeled with short-lived positron emitters, P120  
Preliminary clinical studies using prototype multiwire proportional chamber positron camera, P103  
Production of "anhydrous" F-18 via a recyclable O-18 gas target, P121  
Simple, low volume water target for N-13 and F-18 production, P120  
Synthesis and evaluation of myelin tracer, P119  
Targetry for F-18 production from small accelerators, P121  
Validation of E-18-3-deoxy-3-fluoro-D-glucose (3FDG) as agent for measurement of glucose transport by PET, P52
- Fluorine-18 aqueous fluoride**  
Large-scale production and recovery of aqueous [F-18]-fluoride using proton bombardment of a small-volume [O-18]-water target, P122
- Fluorine-18 BFNU**  
Synthesis of F-18 BFNU, P119
- Fluorine-18 estradiol**  
Synthesis of 16 $\alpha$ -fluoroestradiol using fluoride ion as source of fluorine, P52
- Fluorine-18 fluorodeoxyglucose**  
Alternative approach to single-scan determination of cerebral glucose metabolic rate using 2-fluorodeoxyglucose (2-FDG) with particular application to ischemia, P69  
Assessment of [<sup>18</sup>F]fluorodeoxyglucose kinetic model in calculations of myocardial glucose metabolism during ischemia, 1060  
Cerebral glucose utilization patterns in Wilson's disease, P21  
Direct evaluation of interrelationships of local cerebral blood flow, glucose metabolism, and protein synthesis using simultaneous multiple radionuclide autoradiography, P69  
Effects of insulin, increased work, and anoxia on FDG derived rate constants and Fick metabolic rates, P19  
Evaluating kinetic behavior of fluorodeoxyglucose in animal tumors, P110  
Evaluation of cerebral glucose metabolism in patients with amyotrophic lateral sclerosis by F-18 FDG and PET, P21  
Functional response of human brain to individual and combined visual and auditory inputs, P69  
Local cerebral glucose metabolism in patients with affective psychiatric disorders: drug-free states and effects of methylphenidate, P21  
Local cerebral glucose utilization in Parkinson's disease, P21  
Noninvasive quantitation of regional myocardial glucose utilization rates in man by positron-CT and F-18 deoxyglucose, P89  
Patterns of local cerebral glucose utilization in depression, multiple infarct dementia, and Alzheimer's disease, P20  
Re: the radiation dosimetry of 2-[F-18]fluoro-2-deoxy-D-glucose in man, 447 (le)  
Re: the radiation dosimetry of 2-[F-18]fluoro-2-deoxy-D-glucose in man (reply), 447 (le)  
Simplified synthesis of [F-18]2-FDG using acetyl hypofluorite from acetate salt adsorbed on an inert support, P121  
Synthesis of no-carrier-added F-18 2-fluoro-2-deoxy-D-glucose, 718  
Transient toxicity of 2-deoxy-2-[<sup>18</sup>F]fluoro-D-glucose in mammalian cells, 1055
- Fluorine-18 haloperidol**  
Neuroleptic binding sites: specific labeling in mice with [<sup>18</sup>F]haloperidol, potential tracer for PET, 408  
Radiopharmaceuticals for receptor imaging, 442  
Specific labeling in vivo of murine neuroleptic binding sites using [<sup>18</sup>F]-haloperidol, potential noninvasive probe for psychiatric disease, P52
- Fluorine-18 spiroperidol**  
No-carrier-added (NCA) [<sup>18</sup>F]-spiroperidol, P52
- Fourier analysis**  
Effect of stochastic pixel noise on distributions of magnitude and phase values in Fourier analysis of gated studies, P17  
Four chamber timing analysis in patients with programmable A-V sequential pacemakers using multiharmonic Fourier analysis of gated images, P92  
Fourier amplitude ratio: new way to assess valvular regurgitation, 204  
Fourier analysis of gated blood-pool study during atrial flutter, 713  
Fourier analysis of multigated blood-pool data in patients with congenital heart disease, P89  
Fourier ventricular amplitude ratio to assess valvular regurgitation by gated blood-pool scan, P27  
Optimum number of harmonics for fitting cardiac volume curves, P17  
Quantitative assessment of wall motion in multiple-gated studies using temporal Fourier analysis, 388  
Re: interpretation of multigated Fourier functional images, 542 (le)
- Re: interpretation of multigated Fourier functional images (reply), 542 (le)
- Ventricular performance in congenital left-to-right shunt: temporal Fourier analysis of gated blood-pool data, 829
- Fourier filtering**  
Optimum Fourier filtering of cardiac data: minimum-error method, 1176
- Fourier phase analysis**  
Method for improving specificity of phase analysis for regional defects in presence of depressed global left ventricular function, P17
- Free thyroxine (FT<sub>3</sub>)**  
Clinical value of FT<sub>3</sub> RIA, P96
- Free thyroxine (FT<sub>4</sub>)**  
See Thyroid; Thyroxine (T<sub>4</sub>)  
Clinical assessment of radioimmunoassay for free thyroxine using modified tracer, 498  
Clinical correlation of Amerlex free T<sub>4</sub> radioimmunoassay in various clinical conditions, P44  
Evaluation of free T<sub>4</sub> RIA for assessing thyroid function in nonthyroidal illness, P96  
FT<sub>4</sub> estimates in patients with nonthyroidal illnesses, P44  
New derivative assay (Corning Medical) for estimation of FT<sub>4</sub>, P44  
Salivary thyroxine as estimate of free thyroxine, 700  
Serum free thyroxine methods, comparative study, P44
- Functional asplenia**  
Functional asplenia and patients with chronic graft-versus-host disease, P74
- Functional imaging**  
Functional imaging of Tl-201 redistribution, P45  
Method for improving specificity of phase analysis for regional defects in presence of depressed global left ventricular function, P17
- Functional mapping**  
Optimum number of harmonics for fitting cardiac volume curves, P17
- Gallbladder**  
Abnormal gallbladder emptying in response to cholecystokinin (OP-CCK) in patients with acalculous gallbladder disease, P8  
Association of biliary cholesterol crystals and gallbladder ejection fraction, P8  
Diagnosis of clinically unsuspected gallbladder perforation in obese patient, by Tc-99m IDA cholescintigraphy, 1028  
Filling, postcholecystokinin emptying, and refilling of normal gallbladder: effects of two different doses of CCK on refilling, 666  
Gallbladder emptying: effect of somatostatin, P39  
Influence of scan and pathologic criteria on specificity of cholescintigraphy, 876  
Normal relationship between gastric and gallbladder emptying to a solid meal, P38  
Optimization of ceruletide intravenous dose for gallbladder emptying, P38  
Simplified scintigraphic technique for establishing dose response curve of cholecystokinetic agent, P39
- Gallium-67**  
Bone and gallium scans in mastocytosis: correlation with count rates, radiography, and microscopy, 586  
Changes in uptake of Ga-67 and I-125-transferrin by malignant transformation of hamster embryo cells, P31  
Comparative uptake of Ga-67 and Tc-99m MDP in benign noninfected bone lesion (fracture), P42  
Comparison of In-111 acetylacetone labeled granulocytes, Ga-67 citrate, and 3-phase MDP skeletal imaging in complicated osteomyelitis, P64  
Comparison of three-phase bone scintigraphy and Ga-67 imaging in evaluation of painful total hip prostheses, P84  
Correlation of In-111-leukocyte and Ga-67 scintigraphy with TCT, ultrasonography and

- plane radiography in diagnosis of focal infection, P38
- Correlative imaging of malignant external otitis, P94
- Delayed renal localization of Ga-67, 894
- Delayed renal localization of Ga-67, P16
- Diagnostic value of Ga-67 in detection of post-operative sternal osteomyelitis, P64
- Evaluating painful prosthetic joint with sequential Tc-99m-MDP-Ga-67, P72
- Evaluation of post operative sternum with Ga-67 and Tc-99m medronate, P85
- Failure of Ga-67 scintigraphy to identify reliably noninfectious interstitial nephritis, 568
- Ga-67 and desferrioxamine: time and dose effects on blood clearance and urinary excretion, P102
- Ga-67 emission tomography in detection of suspected pulmonary lesions, P114
- GA-67 lung scanning in the evaluation of pulmonary sarcoid alveolar activity, P14
- Ga-67 scanning in diagnosis of postoperative sternal osteomyelitis, 1001
- High dose gallium imaging in the evaluation of lymphoma, P50
- Inadvertent administration of antineoplastic agents to patients prior to Ga-67 injection: recognition of specific radionuclide distribution pattern and its diagnostic significance, P50
- In vitro transfer of Ga-67 from transferrin to ferritin, 608
- Limitations of three phase bone scintigraphy in suspected osteomyelitis, P83
- Model for evaluation of tumor localization of labeled chemotherapeutic agents, P51
- New approach to Ga-67 labeling of human erythrocytes and platelets, P123
- Predicting cure of osteomyelitis under treatment, 110
- Preparation and basic study of <sup>67</sup>Ga-DE-fragment E(1,2) for the detection of thrombus, P123
- Preparation and biodistribution of Ga-67 fibrinogen conjugated with water-soluble polymer containing deferoxamine: new approach to protein labeling, P124
- Role of Ga-67 citrate imaging in evaluation of nonunited fractures for osteomyelitis, P84
- Role of transferrin on Ga-67 uptake by liver, P124
- Semiquantitative gallium scintigraphy in patients with osteogenic sarcoma, P112
- Unusual distribution of gallium in kidney, gut, and skeleton associated with hepatocellular disease and no renal pathology, P130
- Gallium-67 citrate**
- Assessment of technetium and gallium scanning in patient with painful total joint arthroplasty, P84
- Comparison of small vesicle and Ga-67 citrate uptake by EMT6 tumors, P125
- Diffuse abdominal uptake of Ga-67 citrate in patient with hypoproteinemia, 508
- Scintigraphic detection of osteomyelitis with Tc-99m MDP and Ga-67 citrate, 1019
- Tc-99m MDP and Ga-67 citrate accumulation in cutaneous metastases from colon carcinoma, 1202 (le)
- Gallium-68 BP-IDA**
- Ga-68 BP-IDA for positron imaging of hepatobiliary function, 593
- Gallium-68 EDTA**
- Quantitative measurement of blood brain barrier permeability following osmotic opening, P107
- Gamma 11**
- Modified composite video signal generator for gamma 11 computing system, 838
- Gamma cameras**
- Comprehensive method for fast quantitative analysis of gamma camera distortions and their correction, P67
- Evaluation of SPECT system performance using a SPECT phantom, P58
- GA-67 lung scanning in the evaluation of pulmonary sarcoid alveolar activity, P14
- Improved methods for characterizing and monitoring system performance of rotational gamma cameras, P58
- Modular imaging system for use in nuclear medicine, P25
- Multiwire proportional counter gamma camera and Ta-178 radionuclide, P24
- Simple system for generating non-circular orbits in SPECT in order to reduce the importance of uniformity artefacts, P74
- Gamma ray**
- Uncertain specific gamma-ray constant for Tl-201, 645 (le)
- Gastric emptying**
- Altered gastric emptying during radiation-induced vomiting, P56
- Analysis of gastric emptying studies in pediatric population, P33
- Comparison of in vitro and in vivo labeled chicken liver for evaluation of gastric emptying, P79
- Conveniently prepared Tc-99m resin for semisolid gastric emptying studies, 511
- Definition of spectrum of gastric emptying in patients with bulimia, P56
- Delayed gastric emptying in pediatric patients with Crohn's disease and growth failure, P56
- Effect of gastroplasty for morbid obesity on gastric emptying function measured by radionuclide-labeled test meals, P56
- Error and corrections with scintigraphic measurement of gastric emptying of solid foods, 197
- Measurement of gastric emptying time in outlet obstruction, P99
- Normal relationship between gastric and gallbladder emptying to a solid meal, P38
- Study of gastrointestinal opiate receptors: role of Mu receptor on gastric emptying, 689
- Technical factors in gastric emptying studies, 264
- Validation of corrections for errors in collimation during measurement of gastric emptying of nuclide-labeled meals, 187
- Gastric function**
- Analysis of gastric emptying studies in pediatric population, P33
- Comparison of in vitro and in vivo labeled chicken liver for evaluation of gastric emptying, P79
- Conveniently prepared Tc-99m resin for semisolid gastric emptying studies, 511
- Effects of ionizing radiations on gastric secretion in rhesus monkeys, P98
- Measurement of gastric emptying time in outlet obstruction, P99
- Method of Tc-99m tagging of cottage cheese for gastrointestinal motility studies, P99
- Novel techniques in study of disintegration and dissolution of orally administered dosage forms in man, P98
- Radiation dose estimates for oral agents used in upper gastrointestinal disease, 835
- Rapidly and conveniently prepared Tc-99m resin for semi-solid gastric emptying studies, P100
- Gastroesophageal reflux**
- Comparison of radionuclide esophageal transit and esophageal manometry in gastroesophageal reflux disease, P79
- Gastrointestinal bleeding**
- Acid-citrate-dextrose compared with heparin in the preparation of in vivo/in vitro Tc-99m RBCs, 383
- Comparison of Tc-99m RBCs and Tc-99m SC in detection of gastrointestinal hemorrhage, P48
- Detection of gastrointestinal bleeding with Tc-99m heat-damaged red blood cells, P99
- Further validation of superiority of <sup>99m</sup>Tc RBCs method over <sup>99m</sup>Tc SC in detection and localization of gastrointestinal bleeding, P49
- In-111 leukocyte imaging: false-positive study due to acute gastrointestinal bleeding, 803
- Minimum gastrointestinal bleeding rate detectable by abdominal scintigraphy, P97
- Tc-99m in vitro red blood cell scintigraphy for detection and localization of gastrointestinal bleeding sites: correlation with arteriography, P99
- Gastrointestinal transit time**
- Method of Tc-99m tagging of cottage cheese for gastrointestinal motility studies, P99
- Gastroplasty**
- Effect of gastroplasty for morbid obesity on gastric emptying function measured by radionuclide-labeled test meals, P56
- Gated blood-pool studies**
- See also Blood pool imaging
- Analysis of cardiac diastolic function: application in CAD, 2
- Clinical validation of fully automated computation of ejection fraction from gated blood-pool scintigrams, P93
- Clinical validation of fully automated computation of ejection fraction from gated equilibrium blood-pool scintigrams, 1099
- Clinical validation of totally automated method for assessing regional left ventricular function from rest/exercise radionuclide ventriculography, P53
- Computer simulation of the effect of inaccurate boundary detection on radionuclide measurements of left ventricular volume, P93
- Critical importance of left lateral and left posterior oblique views for evaluating regional wall motion with multigated cardiac blood-pool imaging in acute MI, P68
- Detailed assessment of regional wall motion in acute transmural MI: frequent spontaneous improvement and discordance from global left ventricular function, P67
- Detection and localisation of single vessel coronary disease: biplanar exercise radionuclide ventriculography or Tl-201 myocardial imaging?, P36
- Detection of coronary artery disease at rest using peak systolic pressure-end systolic volume indices, P76
- Determination of left-ventricular volume from first-pass kinetics of labeled red cells, 98
- ECG-gated blood-pool study of carotid arterial pulsation as sign of stenosis, 470
- Effect of stochastic pixel noise on distributions of magnitude and phase values in Fourier analysis of gated studies, P17
- Evaluation of RV function by gated blood-pool scintigraphy, 886
- Four chamber timing analysis in patients with programmable A-V sequential pacemakers using multiharmonic Fourier analysis of gated images, P92
- Fourier amplitude ratio: new way to assess valvular regurgitation, 204
- Fourier analysis of gated blood-pool study during atrial flutter, 713
- Fourier ventricular amplitude ratio to assess valvular regurgitation by gated blood-pool scan, P27
- Gated blood-pool studies of cardiac function in rat and marmoset, 728
- Gated cardiac blood pool ECT from only two coded views, P61
- Incidence, severity, and clinical course of right ventricular involvement after inferior MI: assessment by sequential <sup>99m</sup>Tc-pyrophosphate scans and gated blood pool scans, P68
- Left ventricular volumes from gated radionuclide ventriculograms: attenuation correction in female and male patients, P27
- Mercuric iodide detector for continuous monitoring of left ventricular function, P76
- Method for improving specificity of phase analysis for regional defects in presence of depressed global left ventricular function, P17
- Multi-hospital survey of reliability of ejection fraction determination using a cardiac phantom, P92
- New technique for direct comparison of myocardial perfusion, mechanical function, and necrosis by simultaneous display of registered and color-coded gated Tl-201, blood pool, and Tc-99m PPI images, P93
- Nonorthogonal factor analysis in gated cardiac studies, P62

- Optimum order harmonics of Fourier analysis in multigated blood-pool studies, P17
- Paradoxical improvement of resting myocardial wall motion abnormalities during exercise, P87
- Pharmacologic alterations in Tc-99m binding by RBCs, 397
- Phase analysis in patients with Wolff-Parkinson-White syndrome with surgically proved accessory conduction pathways, P27
- Postextrasystolic potentiation in dog ventricle using radionuclide ventriculography, P62
- Radionuclide and hemodynamic assessment of right ventricular performance in septic shock, P87
- Rapid digital filtering, 625
- Re: determination of absolute LV volume from first-pass kinetics, 970 (le)
- Re: determination of absolute LV volume from first-pass kinetics (reply), 971 (le)
- Re: determination of LV volume from first-pass kinetics of labeled red cells, 969 (le)
- Re: interpretation of multigated Fourier functional images (reply), 542 (le)
- Relative accuracy of automated analysis of regional wall motion in diagnosis of CAD, P91
- Reliability of radionuclide absolute left ventricular volume measurements, P27
- Repeatability of estimates of left-ventricular volume from blood-pool counts, 775
- Right bundle branch block in acute transmural anterior MI: relationship of prognosis to degree of ventricular dysfunction, P68
- Slow infusion gated acquisition: alternative first-pass method for determining left ventricular ejection fraction, P88
- Time of onset of stress-induced left ventricular wall motion abnormalities aids in the prediction of the presence and severity of CAD, P53
- Gated heart studies**
- Clinical validation of fully automated computation of ejection fraction from gated blood-pool scintigrams, P93
- Comparison of supine bicycle and dobutamine radionuclide cardiac stress testing: technical considerations, P54
- Do normalized filling rates measured by radionuclide ventriculography actually represent ventricular filling rates?, P89
- Fourier analysis of multigated blood-pool data in patients with congenital heart disease, P89
- Hemodynamics of heterotopic heart transplants, P91
- High risk subgroup of inferior MI: importance of anterior wall motion and right ventricular function, P68
- Influence of scatter on quantitative determination of LVEF in gated cardiac scans, P103
- Limitations of count-based REF as a means of assessing regional left ventricular function in transmural MI, P17
- Mitral stenosis: right and left ventricular volume assessed by radionuclide ventriculography, P27
- Multigated positron tomography of heart, P104
- Multigated radionuclide studies of artificial heart, P61
- Optimized method of RBC labeling for use in gated cardiac studies in dogs and baboons, P26
- Pinhole radionuclide ventriculography in small infants, P32
- Re: interpretation of multigated Fourier functional images, 542 (le)
- Re: stability of stannous ion in stannous pyrophosphate kits (reply), 1081 (le)
- Scintigraphic assessment of atrial function, P88
- Ventricular performance in congenital left-to-right shunt: temporal Fourier analysis of gated blood-pool data, 829
- Generators, isotope**
- Exercise left ventricular function in asymptomatic diabetics assessed by sequential Au-195m first pass studies, P88
- Gold-195m, ultra-short-lived generator-produced radionuclide: clinical application in sequential first-pass ventriculography, 139
- High activity Kr-Slm generator-delivery system for dynamic pulmonary cincescintigrams, P25
- New Cd-115 → In-115m radionuclide generator, 349
- Production of Zn-62 and development of Zn-62/Cu-62 generator system, P124
- Quantitative evaluation of breathing systems used with Kr-81m generators, 157
- Glomerular filtration rate**
- See also Kidney
- Quality control of Tc-99m DTPA for measurement of glomerular filtration, 722
- Split renal function testing using 99m-Tc-DTPA: rapid technique for determining differential glomerular filtration, P80
- Glucose metabolism**
- Alternative approach to single-scan determination of cerebral glucose metabolic rate using 2-fluorodeoxyglucose (2-FDG) with particular application to ischemia, P69
- Autoradiographic technique for simultaneous measurement of cerebral blood flow and glucose metabolism, P108
- Regional cerebral glucose metabolism during electric shock induced pain, P69
- Glucose transport**
- Validation of E-18-3-deoxy-3-fluoro-D-glucose (3FDG) as agent for measurement of glucose transport by PET, P52
- Glucose utilization rate**
- Noninvasive quantitation of regional myocardial glucose utilization rates in man by positron-CT and F-18 deoxyglucose, P89
- Gold-195m**
- Gold-195m, ultra-short-lived generator-produced radionuclide: clinical application in sequential first-pass ventriculography, 139
- Rapidly alternating gated cardiac blood pool and myocardial perfusion imaging using gold-195m and Th-201, P76
- Ultra-short lived gold-195m: use in simultaneous evaluation of left ventricular function and myocardial perfusion with Tl-201, P76
- Grafts, aortic**
- Natural history of platelet deposition on dacron aortic bifurcation grafts in the first year following implantation in man, P73
- Grafts, occlusion**
- Inhibition of thrombotic aortocoronary bypass graft occlusion with verapamil and papaverine in dogs, P60
- Grafts, vascular**
- Use of indium labeled platelets to monitor platelet deposition on vascular grafts, P60
- Graft-versus-host disease**
- Functional asplenia and patients with chronic graft-versus-host disease, P74
- Functional asplenia in patients with chronic graft-versus-host disease, 1123
- Graves' ophthalmopathy**
- Increased Tc-99m DTPA uptake in active Graves' ophthalmopathy and pretibial myxoedema, 174 (le)
- Heart**
- See also Coronary artery disease (CAD); Myocardium
- Accumulation of In<sup>111</sup> labelled thrombocytes in left ventricular and aortic aneurysms, P73
- Cardiac aneurysm complicated by *E. coli* abscess, 1154
- Clearance-patterns of 15(p-T-123 phenyl)-pentadecanoic acid (IP) in patients with CAD after bicycle exercise, P13
- Comparison of ability of radioiodinated monoclonal anti-rat thy 1 (OX7) to image SL2 tumors located subcutaneous or in the subrenal capsule, P102
- Comparison of cardiac (C-14)-palmitic acid (CP) and (I-123-phenyl)-pentadecanoic acid (IP) oxidation, P118
- Comparison of methods for CK-MR detection in suspected acute MI, P35
- Comparison of positron-emitting myocardial perfusion agents, P119
- Computer simulation of the effect of inaccurate boundary detection on radionuclide measurements of left ventricular volume, P93
- Detection of severe coronary heart disease with Tl-201: comparison of resting single photon emission tomography with invasive arteriography, 761
- Determination of left-ventricular volume from first-pass kinetics of labeled red cells, 98
- Diagnostic value of image processing in myocardial scintigraphy, 768
- Do normalized filling rates measured by radionuclide ventriculography actually represent ventricular filling rates?, P89
- ECT of heart using rotating slant-hole collimator and two orthogonal camera positions, P61
- Effects of insulin, increased work, and anoxia on FDG derived rate constants and Fick metabolic rates, P19
- Experimental model of LV aneurysm for validation of phase analysis in dog and baboon, P26
- External detection of increases in  $\beta$ -adrenoceptor density in isolated perfused hearts with I-125 hydroxybenzylpindolol, P19
- Flow-dependence of uptake of (I-123-phenyl)-pentadecanoic acid (IP) in the canine heart, P12
- Fourier analysis of gated blood-pool study during atrial flutter, 713
- Fourier analysis of multigated blood-pool data in patients with congenital heart disease, P89
- Gated blood-pool studies of cardiac function in rat and marmoset, 728
- Heart imaging in diagnosis of pheochromocytoma and assessment of catecholamine uptake, 1194
- Inverse relationship between cardiac accumulation of I-131 MIBG and circulating catecholamines in suspected pheochromocytoma, 1127
- Left ventricular function under "physiological" pacing: evaluation by radionuclide angiography, P89
- Measurement of myocardial deslanoside concentration using digoxin RIA kit for therapeutic drug monitoring, P115
- Measurement of myocardial blood flow in man with Xe-133 during dipyridamole induced coronary vasodilation, P75
- Measurements of regional tissue and blood-pool radiotracer concentrations from serial tomographic images of heart, 987
- Multigated radionuclide studies of artificial heart, P61
- Myocardial perfusion with Rb-82. I. Measurement of extraction fraction and flow with external detectors, 898
- Neonatal rat myocytes in tissue culture as a model for study of monovalent cation transport, P86
- New correction method for first-pass (FP) flow determination and application to calculation of regurgitant fraction, P88
- Noninvasive quantitation of regional myocardial glucose utilization rates in man by positron-CT and F-18 deoxyglucose, P89
- Nonorthogonal factor analysis in gated cardiac studies, P62
- Optimum Fourier filtering of cardiac data: minimum-error method, 1176
- Peak-counts model for measuring regional myocardial blood flow with Rb-82, P86
- Phase analysis in patients with Wolff-Parkinson-White syndrome with surgically proved accessory conduction pathways, P27
- Postextrasystolic potentiation in dog ventricle using radionuclide ventriculography, P62
- Radioiodinated (E-1-Iodo-1-Penten-5-YI)-triphenylphosphonium iodide: convenient preparation of attractive myocardial perfusion agent, P43
- Radionuclide and hemodynamic assessment of right ventricular performance in septic shock, P87
- Radionuclide evaluation of left-ventricular function in chronic Chagas' cardiomyopathy, 563

- Radionuclide evaluation of ventricular function in patients with L-transposition of great arteries, P87
- Radiopharmaceutical design: adrenergic nervous system, P42
- Rate-limiting step in myocardial clearance of label from 16-iodohexadecanoic acid (IHDA), P12
- Re: determination of LV volume from first-pass kinetics of labeled red cells, 969 (le)
- Re: determination of LV volume from first-pass kinetics of labeled red cells, 969 (le)
- SPECTrum of TI-201 imaging in CAD, 854
- Tc-99m PPI in ischemic and infarcted dog myocardium in early stages of acute coronary occlusion: histochemical and tissue-counting comparisons, 485
- Tomoscintigraphic assessment of myocardial metabolic heterogeneity, 285
- Validation of E-18-3-deoxy-3-fluoro-D-glucose (3FDG) as agent for measurement of glucose transport by PET, P52
- Viability and necrosis of reperfused myocardium following thrombolysis using dual intracoronary injection of TI-201 and Tc-99m-pyrophosphate, P4
- Hepatobiliary imaging**
- Abnormal gallbladder emptying in response to cholecystokinin (OP-CCK) in patients with acalculous gallbladder disease, P8
- Association of biliary cholesterol crystals and gallbladder ejection fraction, P8
- Comparative evaluation of Tc-99m mebrofenin and Tc-99m pyridoxyl-5-methyltryptophan in rats, P10
- Differentiation of obstructive from nonobstructive jaundice by deconvolutional analysis of hepatobiliary scans, P30
- "Dilated cystic duct sign": potential cause of false-negative cholecistigraphy, P97
- Direct measurement of extraction efficiencies and mean transit times of hepatobiliary agents in the perfused rat liver, P126
- Evaluation of dynamic SPECT in the hepatobiliary scintigraphy, P99
- Filling, postcholecystokinin emptying, and refilling of normal gallbladder: effects of two different doses of CCK on refilling, 666
- Ga-68 BP-IDA for positron imaging of hepatobiliary function, 593
- Hepatobiliary imaging in papillary stenosis, P8
- Hepatobiliary imaging: pyeloureterectasis, 450 (le)
- Hepatobiliary scintigraphy and function test with Tc-99m-N-pyridoxyl-5-methyltryptophan (Tc-99m-PMT), P100
- Hepatobiliary scintigraphy and scintiangiography in trauma, P8
- Influence of scan and pathological criteria on specificity of cholecistigraphy, P8
- Influence of scan and pathologic criteria on specificity of cholecistigraphy, 876
- Quantitative analysis of liver function in percutaneous transhepatic drainage patients, P30
- Quantitative biliary dynamics: introduction of new noninvasive scintigraphic technique, 217
- Re: Tc-99m IDA cholecistigraphy in acute pancreatitis, 747 (le)
- Re: Tc-99m IDA cholecistigraphy in acute pancreatitis (reply), 748 (le)
- Sensitivity of hepatobiliary imaging and liberal and strict criteria real-time ultrasonography in detection of acute cholecystitis, P94
- Simplified scintigraphic technique for establishing dose response curve of cholecystokinetic agent, P39
- Structure-distribution-relationship approach leading to development of Tc-99m mebrofenin: improved cholecistigraphic agent, 423
- Uptake of Tc-99m di-isopropyl iminodiacetic acid by hepatocellular carcinoma, 1119
- High-performance liquid chromatography (HPLC)**
- Production in high yield of N'-(4-[<sup>11</sup>C]methyl)-imipramine, 1185
- High-pressure liquid chromatography**
- HPLC analysis of Tc-99m(Sn)-pyridoxylideneaminates and Tc-99m(Sn)-N-pyridoxylaminates: its chemical and biological implications, P127
- Preparative control, HPLC analysis, and in vivo evaluation of components of a technetium-MDP radiopharmaceutical mixture, P23
- Hormones, replacement studies**
- Effect of hypophysectomy and hormonal replacement on the uptake of Tc-99m MDP in the metaphysis and shaft of the rat femur, 224
- Hotelling transform**
- Automatic filtering and histograms reconstruction of renal sequences with hotelling transform, P94
- "Hot patella" sign**
- "Hot patella" sign: any clinical significance?, 312
- Hydronephrosis**
- Renography in pediatric patients, P113
- Hypercholesterolemia**
- Exercise radionuclide angiography with phase analysis in children with familial hypercholesterolemia, P32
- Hyperparathyroidism**
- New perspectives in localizing enlarged parathyroids by technetium-thallium subtraction scan, 438
- Hypertension**
- Differential renal function in diagnosis of renovascular hypertension and followup of balloon angioplasty, P129
- Effect of methyldopa or propranolol on cerebral blood flow in hypertensive patients, P130
- Exercise renogram. New approach documents renal involvement in systemic hypertension, 104
- Re: exercise renogram. New approach documents renal involvement in systemic hypertension, 859 (le)
- Re: exercise renogram. New approach documents renal involvement in systemic hypertension (reply), 859 (le)
- Unmasking of asymmetrical renal perfusion after exercise in unilateral renovascular hypertension, 448 (le)
- Hypothyroidism**
- Sensitive RIA for detection of serum thyrotropin in healthy subjects and patients with suppressed pituitary function, P114
- Hypophysectomy**
- Effect of hypophysectomy and hormonal replacement on the uptake of Tc-99m MDP in the metaphysis and shaft of the rat femur, 224
- Hypoproteinemia**
- Diffuse abdominal uptake of Ga-67 citrate in patient with hypoproteinemia, 508
- Hypothyroidism**
- Primary hypothyroidism caused by TSH-receptors antibodies: diagnosis by thyroid uptake and radioreceptor assay of TSH, P65
- Hysterosalpingography, radionuclide**
- Radionuclide hysterosalpingography: promising new technique for evaluation of fallopian tube patency, P38
- Image processing**
- Direct determination of relative renal blood flow using the Tc-99m DTPA renogram, P80
- Image reconstruction**
- Image improvement and design optimization of time-of-flight PET, 52
- Time-of-flight positron emission tomography: status relative to conventional PET, 73
- Imaging**
- Comparison of interpolating methods for image resampling, P66
- Imaging techniques for advanced data evaluation in NMR-tomography, P109
- Radionuclide image minification can compensate for coarse digitization, 1046
- Immunoassay, nonisotopic**
- Immunoassay—is there future role for nuclear medicine?, 952
- Immunoscintigraphy**
- Optimization of dual isotope imaging techniques in immunoscintigraphy, P15
- Impedance plethysmography**
- Cinematic display of organ motion during respiration with impedance plethysmography, P34
- Indium-111**
- Accumulation of In-111 labelled thrombocytes in left ventricular and aortic aneurysms, P73
- Altered gastric emptying during radiation-induced vomiting, P56
- Cell kinetics In-111 PMN leukocytes in experimental abdominal abscesses in rabbits, P102
- Cell labeling: radiation dose and effects, 637
- Clinical evaluation of In-111 monoclonal anti-melanoma antibodies (111 in-anti mel) for tumor scanning, P15
- Comparison of In-111 acetylacetone labeled granulocytes, Ga-67 citrate, and 3-phase MDP skeletal imaging in complicated osteomyelitis, P64
- Comparison of In-111 and I-125 as labels for monoclonal antibody (MoAb) to a human high molecular weight melanoma associated antigen, P31
- Comparison of In-111 labeled Fab and whole In-111 anti-CEA monoclonal antibody (MoAb) in normal mouse: human colon tumor models, P77
- Distribution of *candida albicans* in mice, P102
- Effect of tumor size, CEA production and secretion of the distribution of In-111 and I-125 monoclonal antitumor antibodies in animal models, P77
- In-111 chelate conjugates of transferrin for tumor imaging, P32
- Intracellular distribution of radionuclides and turnover of Cr-51, In-111, and Tc-99m-labeled RBC in dogs, P26
- In vivo binding of In-111 labeled monoclonal antibody (MoAb) to a human high molecular weight melanoma-associated antigen (HMW-MAA), P78
- Labeling with In-111 has detrimental effects on human lymphocytes, 615
- Quantitative measurement of intravascular thrombus size with In-111 platelet scintigraphy, P73
- Ticlopidine fails to inhibit platelet deposition on dacron prosthetic surfaces in man, P73
- Use of specific antibody for rapid clearance of circulating blood background from radiolabeled tumor imaging proteins, P31
- Indium-111 anti CEA monoclonal antibodies**
- Effect of tumor viability, antibody specificity and choice of determinant on In-111 anti-cea monoclonal antibody distribution in tumor-bearing mice, P110
- Indium-111 chloride**
- Diagnosis of pulmonary edema by In-111 chloride lung-heart imaging, P70
- In-111 chloride imaging in patients with suspected abscesses, P64
- In-111 chloride imaging in patients with suspected abscesses, 1114
- In-111 chloride imaging in the detection of osteomyelitis, P72
- Indium-111 DTPA**
- Baricity of local anesthesia evaluated with In-111 DTPA, P106
- Comparison of three methods for DTPA conjugation to antibody, P31
- Indium-111 granulocytes**
- In-111 granulocyte scanning and quantitative fecal excretion in assessment of inflammatory bowel disease, P79
- Indium-111 hydroxide colloid**
- Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs, 369 (le)

**Indium-111 leukocytes**

- Bone imaging in infections: artefacts from spectral overlap between a Tc-99m tracer and In-111 leukocytes, 589
- Correlation of In-111-leukocyte and Ga-67 scintigraphy with TCT, ultrasonography and plane radiography in diagnosis of focal infection, P38
- Diagnosis of upper abdominal infections by In-111 leukocytes with Tc-99m colloid subtraction technique, 212
- Early In-111 leukocyte has a low sensitivity for detecting occult infection, P64
- Effect of pH on indium labeling of leukocyte preparations: oxine vs tropolone, P101
- Evaluation of acute pulmonary oxygen toxicity by In-111 leukocytes, P70
- Improved technique for In-111 labeling of autologous leukocytes: in vitro and in vivo observations, P101
- In-111 leukocyte imaging: false-positive study due to acute gastrointestinal bleeding, 803
- In-111 leukocyte imaging: review of 1,178 studies, P101
- In-111 leukocytes scintigraphy for detection of peritoneal catheter tunnel infections, P63
- Prospective In-111 WBC scan vs Tc-99m-MDP-Ga-67 scan for low-grade osteomyelitis. Final report, P72
- Use of In-111 white blood cells in investigation of acute pancreatitis, P79
- Value of In-111 WBC scanning in inflammatory bowel disease in childhood, P32
- Variation of In-111 white blood cell scan patterns, P103

**Indium-111 lymphocytes**

- Effect of cyclosporin-A on migration of In-111 lymphocytes, P100
- Labeling with In-111 has detrimental effects on human lymphocytes, 615

**Indium-111 macrophages**

- Distribution studies of In-111 macrophages in tumor-bearing rats, P111

**Indium-111 monoclonal antibodies**

- Preparation of In-111 monoclonal antibody to high-molecular-weight melanoma associated antigen: comparative study using the cyclic anhydride of DTPA (CA) vs. the mixed anhydride of DTPA (MA) for antibody chelation, P125

**Indium-111 NTA**

- Tumor-imaging potential of liposomes loaded with In-111-NTA: biodistribution in mice, 45

**Indium-111 oxine**

- Biodistribution and survival of human platelets labeled in buffered media and plasma, P73
- Effect of pH on indium labeling of leukocyte preparations: oxine vs tropolone, P101
- Lymphocyte kinetic studies with In-111 oxine labeled lymphocytes in malignant lymphoma, P7
- Re: In-111 tropolone versus oxine, 367 (le)
- Re: In-111 tropolone versus oxine (reply), 368 (le)

**Indium-111 platelets**

- Detection of acute coronary thrombosis in patients with use of In-111 labeled platelets, P59
- Diagnosis of early pancreas transplant rejection with In-111 oxine labeled platelets, P55
- Diagnostic accuracy of In-111 platelet scintigraphy in diagnosis of acute deep vein thrombosis, P60
- Evaluation of platelet deposition at site of coronary angioplasty using In-111 labeled platelets, P60
- In-111-platelet clearance, scintigraphy and distribution studies in experimental and clinical immune thrombocytopenia, P74
- Natural history of platelet deposition on dacron aortic bifurcation grafts in the first year following implantation in man, P73
- Noninvasive detection of coronary thrombi with In-111 platelets, 130
- Preliminary evaluation of In-111 platelet

- scintigraphy in patients undergoing peripheral percutaneous transluminal angioplasty, P89
- Quantification of platelet turnover in normal animals with In-111-labeled platelets, P26
- Scintigraphic demonstration in patients of effect of aspirin on platelet deposition at sites of transluminal angioplasty, P60
- Simple, closed system for labeling human platelets with In-111 oxine, P101
- Use of indium labeled platelets to monitor platelet deposition on vascular grafts, P60

**Indium-111 tropolonate**

- Imaging of inflammation with In-111 tropolonate labeled leukocytes, 39
- Rapid detection of intra abdominal abscesses using In-111 tropolonate labelled leucocytes, P6

**Indium-111 tropolone**

- Biodistribution and survival of human platelets labeled in buffered media and plasma, P73
- Effect of pH on indium labeling of leukocyte preparations: oxine vs tropolone, P101
- Rapid in vitro labelling of polymorphonuclear leukocytes with In-111-tropolone, P7
- Re: In-111 tropolone versus oxine, 367 (le)
- Re: In-111 tropolone versus oxine (reply), 368 (le)

**Indium-113m DTPA**

- Validation of corrections for errors in collimation during measurement of gastric emptying of nuclide-labeled meals, 187

**Indium-115m**

- New Cd-115 → In-115m radionuclide generator, 349

**Inflammatory bowel disease**

- In-111 granulocyte scanning and quantitative fecal excretion in assessment of inflammatory bowel disease, P79
- Value of In-111 WBC scanning in inflammatory bowel disease in childhood, P32

**Insulin receptors**

- "Imaging" of insulin interaction with its receptors in normal rats and humans, P66

**Interferon**

- RIA of human leukocyte interferon, P34

**Intestinal transit time**

- Effect of metoclopramide and morphine on small intestinal transit time in normal subjects, P57
- Small bowel transit times studied with radioactive markers: methodology, P56

**Intestines**

- Scintigraphic method for assessment of intraluminal volume and motility of isolated intestinal segments, 571
- Small bowel transit times studied with radioactive markers: methodology, P56

**Intrahepatic lithiasis**

- Retention ratio image: parametric image for detecting intrahepatic lithiasis, P30

**Intravenous coronary thrombolysis**

- Two-dose intravenous TI-201 administration and quantitative analysis in IV thrombolysis in patients, P4

**Iodine-123**

- Collimator choice for differential uptake measurements using SPECT imaging with I-123, P75
- Comparison of cardiac (C-14)-palmitic acid (CP) and (I-123-phenyl)-pentadecanoic acid (IP) oxidation, P118
- Comparison of physical characteristics of I-131 and I-123, with respect to differentiating relative activity in kidneys, 683
- Dosimetry of N-isopropyl I-123 p-iodoamphetamine, P49
- Hepatic uptake and fate of I-123- or C-14-fatty acids in ethanol-fed mice, P100
- Influence of measurement technique and I-124 contamination on I-123 thyroid uptake determinations, P104
- I-123 yields from 800-MeV proton irradiation of CsCl target, P24
- Myocardial uptake of radioiodinated p-iodophenylbenzylidimethylammonium bromide: comparison to TI-201, P43
- On behalf of I-123 fatty acids for myocardial metabolic imaging (reply), 546

- Ovarian cancer: diagnosis using I-123 monoclonal antibody in comparison with surgical findings, P15

- Performance of collimators used for tomographic imaging of I-123 contaminated with I-124, 1065

- Radiation dose estimates to human fetal thyroid at various stages of development, P95

- Radiohalodestannylation: labeling of substituted trialkylstannylarenes and ethylenes, P116

- Radioiodinated (E-I-Iodo-1-Penten-5-YI)-triphenylphosphonium iodide: convenient preparation of attractive myocardial perfusion agent, P43

- Rate-limiting step in myocardial clearance of label from 16-iodohexadecanoic acid (IHDA), P12

- Re: thyroid uptake measurements with I-123: problems and pitfalls, 642 (le)

- Re: thyroid uptake measurements with I-123: problems and pitfalls (reply), 643 (le)

**Iodine-123 AMP**

- I-123 N-isopropyl amphetamine (I-123 AMP) SPECT in epilepsy and cerebral ischemia, P108

**Iodine-123 DIT**

- Would I-123 di-iodotyrosine provide harmless deiodination test?, 1135

**Iodine-123 HA**

- Myocardial imaging and metabolic studies with [17-<sup>123</sup>I]iodoheptadecanoic acid in patients with idiopathic congestive cardiomyopathy, 22

**Iodine-123 HDA**

- Tomoscintigraphic assessment of myocardial metabolic heterogeneity, 285

**Iodine-123 heptadecanoic acid**

- Fast low-temperature ultrasonic preparation, purification and clinical applications of ω-I-123-heptadecanoic acid, P118

- Free fatty acid scintigraphy in patients with successful thrombolysis after acute MI, P5

- Myocardial metabolic studies in patients with cardiomyopathy, P20

**Iodine-123 HIPDM**

- Biodistribution in humans and radiation dose calculations for brain perfusion imaging agent I-123 HIPDM, P95

- Cerebrovascular disorders using brain imaging agent, (I-123)HIPDM, and SPECT, P5

- Lung distribution and kinetics of I-123 HIPDM: potential agent for early detection of lung cellular injury, P71

- New brain perfusion imaging agent: [I-123] HIPDM:N,N,N'-trimethyl-N'-[2-hydroxy-3-methyl-5-iodobenzyl]-1,3-propanediamine, 66
- Two cerebral blood flow tracers, N-isopropyl I-123 p-iodoamphetamine and I-123 HIPDM, P6

**Iodine-123 hippurate**

- Post-transplant renogram offers prognostic data on long-term graft development, P129

- Re: exercise renogram. New approach documents renal involvement in systemic hypertension (reply), 859 (le)

**Iodine-123 IMP**

- Biodistribution and dosimetry of N-isopropyl-p-[<sup>123</sup>I]iodoamphetamine in the primate, 922

- Direct evaluation of interrelationships of local cerebral blood flow, glucose metabolism, and protein synthesis using simultaneous multiple radionuclide autoradiography, P69

- N-Isopropyl I-123 p-iodoamphetamine: arterial injections, P106

- Pulmonary extraction of N-isopropyl-p-I-123-amphetamine (IMP) measured by multiple indicator dilution technique, P71

**Iodine-123 insulin**

- "Imaging" of insulin interaction with its receptors in normal rats and humans, P66

**Iodine-123 iodoamphetamine**

- Differential diagnosis of dementia with "pure" I-123 iodoamphetamine and a clinical camera, P106

- First-pass extraction of N-isopropyl-I-123 p amphetamine by the human lung determined by a dual-isotope dilution technique, P114

- Sizing of perfusion defects using N-isopropyl I-123 p-iodoamphetamine brain scans in acute stroke, P6
- Some observations on eye uptake of N-isopropyl I-123 p-iodoamphetamine: relationship to melatonin production, P117
- Two cerebral blood flow tracers, N-isopropyl I-123 p-iodoamphetamine and I-123 HIPDM, P6
- Iodine-123 iodobenzylguanidine**  
Synthesis of I-131- and I-123-meta-iodobenzylguanidine for diagnosis and treatment of pheochromocytoma, P118
- Iodine-123 IPP**  
New rapid, regiospecific synthesis of  $^{123}\text{I}$ -labeled 15-(p-iodophenyl)pentadecanoic acid, P43
- Iodine-123 isopropylidoamphetamine**  
Cerebral blood-flow tomography: Xe-133 compared with isopropyl-amphetamine-I-123, 17
- Iodine-123 myocardium**  
On behalf of I-123 fatty acids for myocardial metabolic imaging, 545 (le)
- Iodine-123(phenyl) pentadecanoic acid**  
Clearance-patterns of 15(p-T-123 phenyl)-pentadecanoic acid (IP) in patients with CAD after bicycle exercise, P13
- Flow-dependence of uptake of (I-123-phenyl)-pentadecanoic acid (IP) in the canine heart, P12
- Quantitative tomographic imaging evaluation of myocardial clearance of I-123 phenyl pentadecanoic acid in acute myocardial infarction, P12
- Iodine-124**  
Influence of measurement technique and I-124 contamination on I-123 thyroid uptake determinations, P104
- Performance of collimators used for tomographic imaging of I-123 contaminated with I-124, 1065
- Preliminary clinical studies using prototype multiwire proportional chamber positron camera, P103
- Iodine-125**  
Comparison of In-111 and I-125 as labels for monoclonal antibody (MoAb) to a human high molecular weight melanoma associated antigen, P31
- Comparison of the transport of  $^{42}\text{K}^+$ ,  $^{22}\text{Na}^+$ ,  $^{201}\text{Tl}^+$  &  $^{99\text{m}}\text{Tc}$ -DMPE using human RBCs, P28
- External imaging of human atherosclerosis, 154
- Myocardial uptake of radioiodinated p-iodophenylbenzyltrimethylammonium bromide: comparison to TI-201, P43
- Properties of N-methyl derivative of 3-quinuclidinyl 4-iodobenzilate, P116
- Radiation dose estimates to human fetal thyroid at various stages of development, P95
- Radiohalodestannylation: labeling of substituted trialkylstannylarenes and ethylenes, P116
- Radioiodinated estrogens: preparation and evaluation of 17  $\alpha$ -iodovinyl and iodothienyl estradiols, P116
- RIA of human leukocyte interferon, P34
- ROC-analysis of single or combined CEA and TPA determination in a wide spectrum of cancer patients, P112
- Synthesis and biodistribution of radioiodinated 5-iodonitrocin, P116
- Iodine-125 estradiol**  
Properties of I-125 labeled 11- $\beta$ -methoxy-17- $\alpha$ -iodovinyl estradiol (IMOX), P49
- Iodine-125 hydroxybenzylpindolol**  
External detection of increases in  $\beta$ -adrenoceptor density in isolated perfused hearts with I-125 hydroxybenzylpindolol, P19
- Iodine-125 iodobenzoyl hydrazide**  
I-125-m-iodobenzoyl hydrazide: radiolabeling moiety for carbonyl-containing biomolecules, P117
- Iodine-125 iodohexadecanoic acid (IHDA)**  
Rate-limiting step in myocardial clearance of label from 16-iodohexadecanoic acid (IHDA), P12
- Iodine-125-5-iodonitrocin**  
Synthesis and biodistribution of radioiodinated 5-iodonitrocin, P116
- Iodine-125 iodoctadecanoic**  
Synthesis and evaluation of 18- $^{125}\text{I}$ iodo-17-octadecenoic acid, P117
- Iodine-125 monoclonal antibodies**  
Radioimmunolocalization of human mammary tumor transplants using monoclonal antibodies, P109
- Iodine-125 tellura-octadecanoic acid**  
Effect of tellurium position on the myocardial uptake of 18- $^{125}\text{I}$ -iodo-n-tellura-17-octadecenoic acid analogs, P118
- Iodine-125 transferrin**  
Changes in uptake of Ga-67 and I-125-transferrin by malignant transformation of hamster embryo cells, P31
- Iodine-131**  
Applying radioactive eraser: I-131 to ablate normal thyroid tissue in patients from whom thyroid cancer has been resected, 743
- Comparison of physical characteristics of I-131 and I-123, with respect to differentiating relative activity in kidneys, 683
- Comparison of the transport of  $^{42}\text{K}^+$ ,  $^{22}\text{Na}^+$ ,  $^{201}\text{Tl}^+$  &  $^{99\text{m}}\text{Tc}$ -DMPE using human RBCs, P28
- Dosimetry of anti-colon carcinoma monoclonal antibody F(ab')<sub>2</sub> fragments in humans, P49
- Is immunoscintigraphy using radioiodinated monoclonal antibodies useful to cancer diagnosis?, P14
- Noncorrelation of thyroglobulin levels with 2 and 10 mCi I-131 scans in the follow-up of thyroid cancer patients, P97
- Radiation dose estimates to human fetal thyroid at various stages of development, P95
- Radionuclide kinetics in MIRD dose calculations, 621
- Re: thyroid uptake measurements with I-123: problems and pitfalls, 642 (le)
- Small bowel transit times studied with radioactive markers: methodology, P56
- Toxic nodular goiter in cats: evaluation by nuclear medicine, CT, and NMR, P25
- Well-differentiated thyroid carcinoma: diagnosis, treatment and followup in patients with lung metastasis, P97
- Iodine-131 cholesterol**  
Re: In-111 tropolone versus oxine (reply), 368 (le)
- Iodine-131 FAB**  
Localization and therapy of melanoma with I-131 (anti-p97)Fab, P14
- Iodine-131 iodobenzylguanidine**  
Development of kit-form analogs QE meta-iodobenzylguanidine, P117
- Mechanisms of uptake and retention of meta-iodobenzylguanidine in adrenal medulla, P117
- Synthesis of I-131- and I-123-meta-iodobenzylguanidine for diagnosis and treatment of pheochromocytoma, P118
- Iodine-131 iodocholesterol**  
 $^{131}\text{I}$ iodocholesterol scintiscan and rare "functional" black adenoma of adrenal cortex, 505
- Iodine-131 iodoheptadecanoic acid (HA)**  
Effect of doxorubicin on  $[\omega\text{-I-131}]$ heptadecanoic acid myocardial scintigraphy and echocardiography in dogs, 1012
- Iodine-131 iodomethylnorcholesterol**  
Adrenal scintigraphy with I-131-6-beta-iodomethyl-19-norcholesterol in primary aldosteronism, P55
- Scintigraphic localization of abnormal adrenals in primary aldosteronism, P55
- Iodine-131 MBG**  
Inverse relationship between cardiac accumulation of I-131 MIBG and circulating catecholamines in suspected pheochromocytoma, 1127
- Iodine-131 MIBG**  
Dosimetry of I-131 labeled metaiodobenzylguanidine in treatment of malignant pheochromocytomas, P49
- I-131 MIBG uptake reflects integrity of sympathetic innervation, P55
- Intrathoracic pheochromocytomas concentrate TI-201 chloride and I-131-MIBG, P54
- Normal and abnormal distribution of adrenomedullary imaging agent I-131 MIBG in man: evaluation by scintigraphy, 672
- Sensitivity and specificity of m-iodobenzylguanidine scintigraphy for the detection of pheochromocytoma, P54
- Iodine-131 monoclonal antibodies**  
Imaging of melanoma with I-131 monoclonal antibodies, 123
- Iodine-131 rose bengal**  
Comparison of Tc-99m-PIPIDA with I-131 rose bengal in diagnosis of biliary atresia in neonate with direct reacting hyperbilirubinemia, P113
- Iodoamphetamine**  
Effect of carrier amphetamine and KI on the biodistribution of iodoamphetamine, P118
- Iron-52**  
Preliminary clinical studies using prototype multiwire proportional chamber positron camera, P103
- Radiation absorbed doses from iron-52, iron-55, and iron-59 to study ferrokinetics, 339
- Iron-55**  
Radiation absorbed doses from iron-52, iron-55, and iron-59 to study ferrokinetics, 339
- Iron-59**  
Radiation absorbed doses from iron-52, iron-55, and iron-59 to study ferrokinetics, 339
- Iron-59 DTPA**  
Iron storage in patients with iron excess using diethylenetriamine penta-acetic acid (DTPA), P7
- Iron excess**  
Iron storage in patients with iron excess using diethylenetriamine penta-acetic acid (DTPA), P7
- Ischemia**  
Alternative approach to single-scan determination of cerebral glucose metabolic rate using 2-fluorodeoxyglucose (2-FDG) with particular application to ischemia, P69
- Radionuclide analysis of peak filling rates during pacing-induced ischemia, P87
- Ischiopubic synchondrosis**  
Normal anatomic variant: scintigraphy of the ischiopubic synchondrosis, 14
- Isomeric transitions**  
Particulate radiations emitted during electron capture and isomeric transitions, 1192
- Jaundice**  
Differentiation of obstructive from nonobstructive jaundice by deconvolutional analysis of hepatobiliary scans, P30
- Jugular paraganglioma**  
Diagnosis of jugular paraganglioma by radionuclide angiography, 1005
- Kidney**  
See also Glomerular filtration rate; Renal artery stenosis; Renal function; Renal hypertension; Renal ischemia; Renal perfusion
- Automatic filtering and histograms reconstruction of renal sequences with hotelling transform, P94
- Clinical evaluation of Tc-99m-N,N'-bis(mercaptoacetyl)-2,3-diaminopropanoate (component A) (Tc-99m-CO<sub>2</sub>-DADS-A) as a replacement for I-131-hippuran, P80
- Clinical studies of renal function during colic attack induced by urolithiasis, P129
- Comparison of physical characteristics of I-131 and I-123, with respect to differentiating relative activity in kidneys, 683
- Computer-quantitated renal uptake vs. plasma clearance of Tc-99m DTPA in rats with and without glomerular damage, P80
- Delayed renal localization of Ga-67, 894
- Delayed renal localization of Ga-67, P16



- Differential renal function in diagnosis of renovascular hypertension and followup of balloon angioplasty, P129
- Direct determination of relative renal blood flow using the Tc-99m DTPA renogram, P80
- DMSA renal uptake: sensitive and specific marker of nephron function?, P129
- Evaluation of 16 new Tc-99m compounds for renal tubular excretion studies, P80
- Exercise renogram. New approach documents renal involvement in systemic hypertension, 104
- Failure of Ga-67 scintigraphy to identify reliably noninfectious interstitial nephritis, 568
- "Imaging" of insulin interaction with its receptors in normal rats and humans, P66
- Mammalian predictive model of renal obstruction using Tc-99m DMSA, P130
- Measurement of differential renal function using Tc-99m glucoheptonate, P15
- New 99m-Tc(V)DMSA tumor imaging radiopharmaceuticals, with distinctive behavior from renal 99m-Tc-DMSA, P126
- Obstructive nephropathy: comparison of parenchymal transit time index and frusemide diuresis, P16
- Partial ureteropelvic junction obstruction: comparison of percutaneous antegrade pyelography and diuretic renal scintigraphy, P22
- Quality control of Tc-99m DTPA for measurement of glomerular filtration, 722
- Re: exercise renogram. New approach documents renal involvement in systemic hypertension, 859 (le)
- Re: exercise renogram. New approach documents renal involvement in systemic hypertension (reply), 859 (le)
- Renal uptake of Tc-99m DMSA to assess renal ischemia and pretreatment drug effects, P16
- Renography in pediatric patients, P113
- Split renal function testing using 99m-Tc-DTPA: rapid technique for determining differential glomerular filtration, P80
- Tc-99m DTPA transmit time as an index of proximal tubular function, P16
- Thyroid function in hemodialysis patients, P65
- Unusual distribution of gallium in kidney, gut, and skeleton associated with hepatocellular disease and no renal pathology, P130
- Kidney transplants**
- Evaluation of 16 new Tc-99m compounds for renal tubular excretion studies, P80
- Noninvasive radionuclide scintiphotographic technique for assessment of preserved renal allograft viability, P15
- Post-transplant renogram offers prognostic data on long-term graft development, P129
- Radionuclide detection of cyclosporin A nephrotoxicity in renal transplant patients, P129
- Kinetics**
- Ga-67 and desferrioxamine: time and dose effects on blood clearance and urinary excretion, P102
- Krypton-81m**
- Assessment of esophageal transit in adults and in children by means of Kr-81m, P98
- Dependence of distribution of short-lived tracers on decay. Noncompartmental approach, 543 (le)
- Dependence of distribution of short-lived tracers on decay. Noncompartmental approach (reply), 543 (le)
- Patterns of regional ventilation in life-long smokers and nonsmokers using Kr-81m: comparison with tests of total lung function, P13
- Quantitative evaluation of breathing systems used with Kr-81m generators, 157
- Kupffer cells**
- Effects of autologous rat serum on phagocytosis of radiocolloids by rat Kupffer cells in vitro, P127
- Lassa fever**
- Lung uptake of Tc-99m-tin colloid in a patient with Lassa fever, 750 (le)
- Lesions**
- Characteristic pattern of esophageal emptying in obstructive lesions of the esophagus, P39
- Solitary lesion in pediatric bone scanning, 114
- Letter from the Editor**
- Letter from the Editor, 1
- Leukemia**
- Differential skeletal uptake of Tc-99m pyrophosphate and methylene diphosphonate in leukemia, 799
- Leukocytes, labeled**
- Early In-111 leukocyte has a low sensitivity for detecting occult infection, P64
- Imaging of inflammation with In-111 tropolonate labeled leukocytes, 39
- Rapid detection of intra abdominal abscesses using In-111 tropolonate labelled leucocytes, P6
- Rapid in vitro labelling of polymorphonuclear leukocytes with In-111-tropolone, P7
- Ligands, diaminodithiol**
- Synthesis and characterization of neutral oxotechnetium-(V) diaminodithiol complex, P10
- Lipophilic cations**
- Heart uptake of lipophilic cations: relationship to membrane potential, P86
- Liposomes**
- Tumor-imaging potential of liposomes loaded with In-111-NTA: biodistribution in mice, 45
- Liver**
- Calcification of hepatic metastases, P85
- Clinical experience with Tc-99m MAA hepatic artery perfusion scintigraphy, P51
- Clinical significance of pulmonary Tc-99m MAA following radionuclide hepatic artery perfusion, P51
- Comparison of SPECT with planar scintigraphy and transmission computed tomography in focal hepatic disease, P37
- Comparison of Tc-99m-PIPIDA with I-131 rose bengal in diagnosis of biliary atresia in neonate with direct reacting hyperbilirubinemia, P113
- Detection of masses in subphrenic space, P37
- Direct measurement of extraction efficiencies and mean transit times of hepatobiliary agents in the perfused rat liver, P126
- Effects of autologous rat serum on phagocytosis of radiocolloids by rat Kupffer cells in vitro, P127
- Efficacy of bone and liver scanning in followup of patients on adjuvant chemotherapy for breast carcinoma, P109
- Elective liver therapy with P-32 chromic phosphate colloid in high risk colon cancer, P111
- Evaluation of "portal scintigraphy" by intestinal administration of Tc-99m using endoscopy in liver cirrhosis, P48
- Functional imaging of liver transplants, P98
- Hepatic uptake and fate of I-123- or C-14-fatty acids in ethanol-fed mice, P100
- Hepatobiliary scintigraphy and function test with Tc-99m-N-pyridoxyl-5-methyltryptophan (Tc-99m-PMT), P100
- "Imaging" of insulin interaction with its receptors in normal rats and humans, P66
- Improvement of scintigraphic liver imaging by SPECT: review of 797 cases, P29
- London liver phantom, 974 (le)
- Microcirculation of hepatic tumors studied by SPECT and intra-arterial Tc-99m MAA, P51
- Mismatched serum vitamin B-12 and Schilling test results: incidence and possible causes, P114
- Modified RIA for differential detection of IgM-anti-HBC, P35
- Quantitation of portal blood flow following portacaval shunting using Tc-99m MAA, P47
- Quantitative analysis of liver function in percutaneous transhepatic drainage patients, P30
- Radionuclide liver perfusion scintigraphy with Tc-99m MAA contribution of computer data processing, P109
- Radionuclides in investigation of conjoined twins, 479
- Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid, 971 (le)
- Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid (reply), 972 (le)
- Re: SPECT for assessment of hepatic lesions: its role in diagnostic work-up, 746 (le)
- Re: SPECT for assessment of hepatic lesions: its role in diagnostic work-up (reply), 746 (le)
- Retention ratio image: parametric image for detecting intrahepatic lithiasis, P30
- Re: uptake of Tc-99m MAA by the liver during a lung scan, 747 (le)
- Re: uptake of Tc-99m MAA by the liver during a lung scan (reply), 747 (le)
- Role of bone and liver scans in detecting metastases in patients of nasopharyngeal carcinoma, P112
- Role of transferrin on Ga-67 uptake by liver, P124
- Scintigraphic estimation of arterial and portal blood supplies to liver, 1099
- Scintiphotosplenoportography: method for scanning portal circulation and estimating regional hepatic blood flow, P48
- Starch microspheres and quantitative hepatic arterial perfusion scintigraphy in cancer chemotherapy, P51
- Tc-99m-galactosyl-neoglycoalbumin: in vitro and in vivo receptor properties, P24
- Tc-99m propane tetrakisphosphonate: new radiopharmaceutical for liver-scanning, P128
- Tc-99m RBC scanning in the differential diagnosis of focal liver lesions, P48
- Unusual distribution of gallium in kidney, gut, and skeleton associated with hepatocellular disease and no renal pathology, P130
- Uptake of Tc-99m di-isopropyl iminodiacetic acid by hepatocellular carcinoma, 1119
- Uptake of Tc-99m MAA by liver during thrombosclintigram/lung scan, 36
- Value of selective spleen scintigraphy when liver/spleen image shows equivocal spleen defects, 559
- Vascular intrahepatic defects in SPECT of the normal liver as defined by Tc-99m RBCs and sulfur colloid, P30
- Xe-133 tumor blood flow and Tc-99m-MAA perfusion scintigraphy in head and neck tumors, P112
- Liver-spleen imaging**
- Normal appearance and reproducibility of liver-spleen studies with Tc-99m SC and Tc-99m microalbumin colloid, 8
- Lung**
- Abnormal perfusion scan due to intrathoracic stomach and colon, 543 (le)
- Clinical significance of pulmonary Tc-99m MAA following radionuclide hepatic artery perfusion, P51
- Comparison between sub-micronic aerosol and Xe-127 for ventilation images, P113
- Constant infusion of (O-15)-H<sub>2</sub>O and single breath inhalation of (C-11)-CO for the determination of extravascular lung water by PET, P121
- Dependence of distribution of short-lived tracers on decay. Noncompartmental approach (reply), 543 (le)
- Diagnosis of pulmonary edema by In-111 chloride lung-heart imaging, P70
- Diffuse lung uptake of Tc-99m sulfur colloid in infectious mononucleosis, 1083 (le)
- Early diagnosis of adult respiratory distress syndrome by Tc-99m human serum albumin and portable probe, P70
- Evaluation of acute pulmonary oxygen toxicity by In-111 leukocytes, P70
- Extravasation from venous catheter: serious complication potentially missed by lung imaging, 1023
- First-pass extraction of N-isopropyl-I-123 p amphetamine by the human lung determined by a dual-isotope dilution technique, P114

- Ga-67 emission tomography in detection of suspected pulmonary lesions, P114
- GA-67 lung scanning in the evaluation of pulmonary sarcoid alveolar activity, P14
- High activity Kr-Slm generator-delivery system for dynamic pulmonary cinescintigrams, P25
- Increase in pulmonary epithelial pore dimensions among smokers documented by diffusion scintiscan, P14
- Lung distribution and kinetics of I-123 HIPDM: potential agent for early detection of lung cellular injury, P71
- Lung uptake of Tc-99m-tin colloid in a patient with Lassa fever, 750 (le)
- Metastatic prostatic pulmonary nodules with normal bone scan, 1026
- Patterns of regional ventilation in life-long smokers and nonsmokers using Kr-81m: comparison with tests of total lung function, P13
- Pulmonary extraction of N-isopropyl-p-I-123-amphetamine (IMP) measured by multiple indicator dilution technique, P71
- Pulmonary perfusion "without ventilation", 1149
- Quantitation of pulmonary gallium uptake in patients with interstitial lung disease using ECT, P114
- Radionuclide angiographic demonstration of systemic lung arterialization with arteriovenous fistulas, 228
- Rapidly changing appearance of deposited submicronic Tc-99m DTPA aerosol in smokers' lungs, P113
- Regional extravascular lung water (rELW) determination in edematous dogs by PET, P71
- Re: thyroid activity on Tc-99m MAA lung scans, 749 (le)
- ROC-analysis of single or combined CEA and TPA determination in a wide spectrum of cancer patients, P112
- Synthesis and biodistribution of adenine[C-11], P120
- Tc-99m GHA imaging in lung cancer and benign lung diseases, 997
- Tc-SC and Tc-RBC for detecting pulmonary bleeding: correlation with clinical, surgical and radiographic findings, P13
- Ventilation-perfusion lung scanning in pulmonary hypertension, P13
- Ventilation-perfusion (V/Q) lung studies: utilization by referring clinicians, P13
- Well-differentiated thyroid carcinoma: diagnosis, treatment and followup in patients with lung metastasis, P97
- Lymphedema**  
Soft-tissue uptake of Tc-99m MDP in secondary scrotal lymphedema, 275 (le)
- Lymph nodes**  
Altered uptake of Tc-99m antimony sulfide colloid by lymph nodes post-irradiation, P95
- Lymphocytes**  
Labeling with In-111 has detrimental effects on human lymphocytes, 615
- Lymphocytes, labeled**  
Lymphocyte kinetic studies with In-111 oxine labeled lymphocytes in malignant lymphoma, P7
- Lymphoma**  
High dose gallium imaging in the evaluation of lymphoma, P50
- Lymphoscintigraphy**  
Clinical evaluation of dynamic lymphoscintigraphy with Tc-99m HSA, P41  
Effects of metastatic (13762) and non-metastatic (R3230AC) mammary adenocarcinoma on radiocolloid localization in regional lymph nodes in Fischer 344 rats, P40  
Internal mammary lymphoscintigraphy in breast cancer, P40  
Qualitative and quantitative upper extremity radionuclide lymphoscintigraphy, P40  
Quantitative bipedal lymphoscintigraphy, P40  
Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs, 369 (le)
- Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs (reply), 369 (le)
- Re: lymphoscintigraphy with Tc-99m dextran, 370 (le)
- Re: lymphoscintigraphy with Tc-99m labeled dextran (reply), 370 (le)
- Re: potential for lymphoscintigraphy, 371 (le)
- Re: potential for lymphoscintigraphy (reply), 371 (le)
- Magnesium deficiency**  
Effects of dietary magnesium deficiency on TI-201 kinetics and distribution in rat myocardium, 402
- Mastocytosis**  
Bone and gallium scans in mastocytosis: correlation with count rates, radiography, and microscopy, 586
- Melanomas**  
Effect of iodination on in vitro p<sup>97</sup> antigen-specific binding and in vivo tumor localization using monoclonal antibody fragments, P116  
Human melanoma heterotransplants in nude mice: tumor-localization of radiolabeled  $\alpha$ -aminoisobutyric acid potential agent for imaging with PET, P110  
Imaging of melanoma with I-131 monoclonal antibodies, 123  
Localization and therapy of melanoma with I-131 (anti-p97)Fab, P14  
Measurement of plasma P-97 levels in melanoma patients using a new radioassay, P35  
Preparation of In-111 monoclonal antibody to high-molecular-weight melanoma associated antigen: comparative study using the cyclic anhydride of DTPA (CA) vs. the mixed anhydride of DTPA (MA) for antibody chelation, P125  
Scanning the lymph shed of melanoma of thorax using radiocolloids and macromolecules, P111
- In Memoriam**  
Charles D. Smith, M.D. (1907-1982), 172
- Metabolic rate**  
Re: in vivo methods for measuring regional glucose metabolic rate, 366 (le)  
Re: in vivo methods for measuring regional glucose metabolic rate (reply), 367 (le)  
Re: in vivo methods for measuring regional glucose metabolic rate (reply), 367 (le)
- Metabolism**  
See also Cerebral metabolism; Fatty acid metabolism; Glucose metabolism  
External measurement of myocardial oxygen extraction with O-15-labeled oxygen, P20  
General model for the measurement of metabolism with analog tracers, P34  
Measurements of regional tissue and blood-pool radiotracer concentrations from serial tomographic images of heart, 987  
Metabolic fate of 1- C-14 betamethylheptadecanoic acid and 1- C-14 palmitic acid in mice heart and blood, P120  
On behalf of I-123 fatty acids for myocardial metabolic imaging, 545 (le)  
On behalf of I-123 fatty acids for myocardial metabolic imaging (reply), 546
- Metastasis**  
Imaging of adrenal cortical carcinoma and its skeletal metastasis, 710
- Methyldopa**  
Effect of methyldopa or propranolol on cerebral blood flow in hypertensive patients, P130
- Metoclopramide**  
Effect of metoclopramide and morphine on small intestinal transit time in normal subjects, P57
- MIRD dose estimate report no. 11**  
Radiation absorbed doses from iron-52, iron-55, and iron-59 to study ferrokinetics, 339
- Mitral stenosis**  
Mitral stenosis: right and left ventricular volume assessed by radionuclide ventriculography, P27
- Model, radiopharmaceutical information**  
Hierarchical transfer of radiopharmaceutical information, P124
- Models, volume, clearance**  
Phenomenological approach to virtual distribution volume kinetics and clearance estimation, P91
- Monoclonal antibodies**  
Absorbed dose calculations for radiolabeled tumor associated monoclonal antibodies, P95  
Clinical evaluation of In-111 monoclonal anti-melanoma antibodies (111 in-anti mel) for tumor scanning, P15  
Comparison of In-111 and I-125 as labels for monoclonal antibody (MoAb) to a human high molecular weight melanoma associated antigen, P31  
Comparison of In-111 labeled Fab and whole In-111 anti-CEA monoclonal antibody (MoAb) in normal mouse: human colon tumor models, P77  
Development of Cu-67 chelate conjugated monoclonal antibodies for radioimmunotherapy, P30  
Dosimetry of anti-colon carcinoma monoclonal antibody F(ab')<sub>2</sub> fragments in humans, P49  
Effect of iodination on in vitro p<sup>97</sup> antigen-specific binding and in vivo tumor localization using monoclonal antibody fragments, P116  
Effect of tumor size, CEA production and secretion of the distribution of In-111 and I-125 monoclonal antitumor antibodies in animal models, P77  
Effect of tumor viability, antibody specificity and choice of determinant on In-111 anti-cea monoclonal antibody distribution in tumor-bearing mice, P110  
Evaluation of methods for preparation of radiolabeled monoclonal antibodies, P123  
F(ab')<sub>2</sub> fragments of monoclonal antibodies in tumor bearing mice, P77  
Imaging of melanoma with I-131 monoclonal antibodies, 123  
In vivo binding of In-111 labeled monoclonal antibody (MoAb) to a human high molecular weight melanoma-associated antigen (HMW-MAA), P78  
Is immunoscintigraphy using radioiodinated monoclonal antibodies useful to cancer diagnosis?, P14  
Limitations in imaging of human tumor xenografts in nude mice with radiolabeled monoclonal antibodies, P77  
Optimization of dual isotope imaging techniques in immunoscintigraphy, P15  
Ovarian cancer: diagnosis using I-123 monoclonal antibody in comparison with surgical findings, P15  
Preparation of In-111 monoclonal antibody to high-molecular-weight melanoma associated antigen: comparative study using the cyclic anhydride of DTPA (CA) vs. the mixed anhydride of DTPA (MA) for antibody chelation, P125  
Radioimmuno-detection and treatment of human colon cancer in nude mice using a monoclonal antibody, P110  
Radioimmunolocalization of human mammary tumor transplants using monoclonal antibodies, P109  
Tumor imaging with monoclonal antibodies, 360  
Tumor localization in rodents using radiolabeled monoclonal antibodies to isoferitin (FEV-212), P78  
Tumor targeting by monoclonal antibodies: specificity in nude mice bearing antigenically distinct tumors, P94
- Monoclonal antibodies, F(ab') and Fab**  
Improved radioimaging and tumor localization with monoclonal F(ab')<sub>2</sub>, 316
- Mononucleosis**  
Diffuse lung uptake of Tc-99m sulfur colloid in infectious mononucleosis, 1083 (le)
- Morphine**  
Effect of metoclopramide and morphine on small intestinal transit time in normal subjects, P57
- Multivariate analysis**  
Improved interpretation of Tc-99m gated sequentially graded exercise angiographic data using multivariate analysis, P53



**Munchausen's syndrome**

Nuclear medical manifestation of Munchausen's syndrome, 716

**Muscarinic receptors**

Properties of *N*-methyl derivative of 3-quinuclidinyl 4-iodobenzilate, P116

**Muscles**

Skeletal scintigraphy in differential diagnosis of lower extremity pain in athletes, P41

**Myelin**

Evaluation of potential myelin imaging agents using simple screening methodology, P122  
Myelin imaging with PET, P62  
Synthesis and evaluation of myelin tracer, P119

**Myocardial imaging agents**

Noah's ark experiment. Search for suitable animal model for cationic Tc-99m myocardial imaging agents, P9  
Synthesis and characterization of [99m-Tc(dmpe)<sub>3</sub>]<sup>+</sup>, potential myocardial imaging agent, P9

**Myocardial infarction**

Cardiac NMR imaging correlated with Tl-201 SPECT for visualization of heart chambers, ventricular wall motion and MI, P46  
Clinical utility of two-site immunoradiometric assay for creatine kinase-MB in detection of perioperative myocardial infarction, 703  
Comparison of infarct identification with Tc-99m PPI and staining with triphenyl tetrazolium chloride, 492  
Comparison of methods for CK-MR detection in suspected acute MI, P35  
Contribution of atrial contraction to left ventricular filling in patients with CAD, P28  
Creatine kinase-MB immunoradiometric assay to diagnose MI following aortocoronary bypass surgery, P35  
Detailed assessment of regional wall motion in acute transmural MI: frequent spontaneous improvement and discordance from global left ventricular function, P67  
Detection and quantitation of remote MI by tomographic exercise-redistribution Tl-201 scintigraphy, P36  
Detection of acute coronary thrombosis in patients with use of In-111 labeled platelets, P59  
Differential registration of two types of radionuclides on macroautoradiograms for studying coronary circulation, 693  
Evaluation of nontransmural MI by Tl-201 SPECT, P18  
Free fatty acid scintigraphy in patients with successful thrombolysis after acute MI, P5  
Functional recovery of LVEF and RVEF following streptokinase reperfusion: relation to timing and impacts of LAD/RCA reopening, P4  
High risk subgroup of inferior MI: importance of anterior wall motion and right ventricular function, P68  
Limitations of count-based REF as a means of assessing regional left ventricular function in transmural MI, P17  
Planar versus tomographic imaging with Tc-99m PPI for detection of acute MI in patients, P38  
Quantitation of myocardial necrosis with Tc-99m-monoclonal antimyosin Fab and SPECT, P37  
Quantitative tomographic imaging evaluation of myocardial clearance of I-123 phenyl pentadecanoic acid in acute myocardial infarction, P12  
Re: attenuation compensation in single-photon emission tomography: comparative evaluation (reply), 644 (le)  
Right bundle branch block in acute transmural anterior MI: relationship of prognosis to degree of ventricular dysfunction, P68  
Role of preload reserve during dynamic exercise in patients with MI, P54  
Scintigraphic detection of ventricular aneurysm with Tl-201, 34

Significance of estimating redistribution of pulmonary perfusion in CAD, P90  
Tomoscintigraphic assessment of myocardial metabolic heterogeneity, 285  
Two-dose intravenous Tl-201 administration and quantitative analysis in IV thrombolysis in patients, P4

**Myocardial ischemia**

Critical assessment of first harmonic Fourier phase analysis for detecting CAD during atrial pacing, P88  
Detection and localization of single vessel coronary disease: biplanar exercise radionuclide ventriculography or Tl-201 myocardial imaging?, P36  
Detection and quantitation of remote MI by tomographic exercise-redistribution Tl-201 scintigraphy, P36  
Functional imaging of Tl-201 redistribution, P45  
Noninvasive evaluation of regional myocardial fatty acid metabolism in man with C-11 palmitic acid and positron-CT, P12  
Nonuniform washout of Tl-201 (within normal range): criterion for improved detection of single vessel CAD, P46  
Pattern of myocardial perfusion at rest in patients with unstable angina pectoris, P68  
Positron-CT for evaluation of myocardial metabolism after reperfusion in chronic dogs, P4  
Quantitation of Tl-201 myocardial perfusion defect size by SPECT, P29  
Restoration of myocardial perfusion and metabolism with PET after coronary thrombolysis, P5  
Scintigraphic quantitation of myocardial ischemia, P19  
Significance of collateral circulation on local myocardial perfusion in canine heart model: implications for investigation of myocardial perfusion imaging agents, P85  
Tl-201 kinetics shortly after termination of exercise: implications for quantitative analysis, P46

**Myocardial perfusion**

Comparison of positron-emitting myocardial perfusion agents, P119  
New technique for direct comparison of myocardial perfusion, mechanical function, and necrosis by simultaneous display of registered and color-coded gated Tl-201, blood pool, and Tc-99m PPI images, P93  
Quantitation of Tl-201 myocardial perfusion defect size by SPECT, P29  
Sequential myocardial perfusion planar imaging with Rb-82 reflecting acute changes in blood flow, P85

**Myocardium**

**See also Heart**

Assessment of [<sup>18</sup>F]fluorodeoxyglucose kinetic model in calculations of myocardial glucose metabolism during ischemia, 1060  
Autoradiographic studies of labeled fatty acid analogs as potential myocardial imaging agents, P125  
C-11 ligand binding to adrenergic and muscarinic receptors of the human heart studied in vivo by PET, P20  
Comparative tomographic imaging performance of hybrid coded-aperture/parallel-plate stationary collimator and rotating camera, P25  
Comparison of cardiac (C-14)-palmitic acid (CP) and (I-123-phenyl)-pentadecanoic acid (IP) oxidation, P118  
Comparison of positron-emitting myocardial perfusion agents, P119  
Comparison of predischARGE exercise testing, Tl-201 scintigraphy and coronary angiography for identifying post-infarction patients at risk for future cardiac events, P36  
Comprehensive method for 4-dimensional quantification of rotational Tl-201 myocardial tomograms, P34  
Determination of left ventricular mass using SPECT, P86

Diagnostic value of image processing in myocardial scintigraphy, 768  
Effect of tellurium position on the myocardial uptake of 18-[<sup>125</sup>I]-iodo-*n*-tellura-17-octadecenoic acid analogs, P118  
Effects of dietary magnesium deficiency on Tl-201 kinetics and distribution in rat myocardium, 402  
External measurement of myocardial oxygen extraction with O-15-labeled oxygen, P20  
Heart uptake of lipophilic cations: relationship to membrane potential, P86  
Intracoronary Tl-201: short acquisition gated myocardial scintigraphy, P37  
Kinetics of cellular uptake of (N-13)-ammonia, a marker used in myocardial scintigraphy, P20  
Maintained LV exercise response and regional wall motion abnormalities in patients on doxorubicin, P54  
Measurement of myocardial blood flow in man with Xe-133 during dipyridamole induced coronary vasodilation, P75  
Myocardial imaging and metabolic studies with [17-<sup>123</sup>I]iodoheptadecanoic acid in patients with idiopathic congestive cardiomyopathy, 22  
Myocardial imaging with 75 second Rb-82 administered intravenously, P77  
Myocardial metabolic studies in patients with cardiomyopathy, P20  
Myocardial perfusion with Rb-82. II. Effects of metabolic and pharmacologic interventions, 907  
Myocardial uptake of radioiodinated p-iodophenylbenzyltrimethylammonium bromide: comparison to Tl-201, P43  
New rapid, regiospecific synthesis of <sup>123</sup>I-labeled 15-(p-iodophenyl)pentadecanoic acid, P43  
On behalf of I-123 fatty acids for myocardial metabolic imaging (reply), 546  
Optimal count rates for reliable assessment of Tl-201 myocardial washout, P28  
Optimal myocardial SPECT imaging parameters, P67  
Quantification of regional myocardial flow with Rb-82 despite pharmacologic intervention, P28  
Radioiodinated (E-1-Iodo-1-Penten-5-Yl)-triphenylphosphonium iodide: convenient preparation of attractive myocardial perfusion agent, P43  
Rate-limiting step in myocardial clearance of label from 16-iodohexadecanoic acid (IHDA), P12  
Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs, 369 (le)  
Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs (reply), 369 (le)  
Statistical interpretation of quantitative Tl-201 myocardial perfusion scintigraphy, P28  
Synthesis, structure and biodistribution studies of technetium cationic complex-[Tc(dmpe)<sub>3</sub>]<sup>+</sup>, P9  
Tc-99m BIN versus Tl(I)-201 in myocardial imaging, P127  
Tc-99m PPI in ischemic and infarcted dog myocardium in early stages of acute coronary occlusion: histochemical and tissue-counting comparisons, 485  
Thallium myocardial uptake during acute cardiac allograft rejection, P29  
Tl-201 single photon emission tomography (SPECT), 273 (le)  
Tl-201 single photon emission tomography (SPECT) (reply), 273 (le)  
Tl-201 (SPECT) (reply), 274 (le)  
Tracer kinetic model of C-11 palmitate (CPA) for estimating regional free fatty acid (FFA) utilization in myocardium, P12  
Ventricular function, mitral regurgitation and early prognosis in infants and children with cardiomyopathy, P32  
Viability and necrosis of reperfused myocardium following thrombolysis using dual intracoronary injection of Tl-201 and Tc-99m-pyrophosphate, P4

- Myxoedema**  
Increased Tc-99m DTPA uptake in active Graves' ophthalmopathy and pretibial myxoedema, 174 (le)
- Nasopharynx**  
Role of bone and liver scans in detecting metastases in patients of nasopharyngeal carcinoma, P112
- Nephritis**  
Failure of Ga-67 scintigraphy to identify reliably noninfectious interstitial nephritis, 568
- Nephrotoxicity**  
Radionuclide detection of cyclosporin A nephrotoxicity in renal transplant patients, P129
- Neuroblastoma**  
Radiographic and scintigraphic skeletal imaging in patients with neuroblastoma, 467
- Neutrophils, radiolabeled**  
Receptor mediated selective radiolabeling of neutrophils, P7
- Nitrogen-13**  
Fully automated synthesis systems of radiopharmaceuticals labeled with short-lived positron emitters, P120  
Simple, low volume water target for N-13 and F-18 production, P120
- Nitrogen-13 ammonia**  
Kinetics of cellular uptake of (N-13)-ammonia, a marker used in myocardial scintigraphy, P20
- Noise reduction**  
Noise reduction in Nuclear Medicine images, 532
- Noncircular orbit**  
SPECT resolution and uniformity improvements by noncircular orbit, 822
- Norepinephrine analogs**  
Radiopharmaceutical design: adrenergic nervous system, P42
- Nuclear magnetic resonance**  
Cardiac NMR imaging correlated with TI-201 SPECT for visualization of heart chambers, ventricular wall motion and MI, P46  
Comparison of NMR imaging and x-ray CT in detecting brain tumors, P47  
Correlative morphological and functional studies of brain in man, utilizing CT, NMR and PET imaging, P108  
Imaging techniques for advanced data evaluation in NMR-tomography, P109  
NMR imaging of the thyroid, P46  
P-31 NMR spectroscopy in pediatric neuromuscular disorders, P47  
P-31 NMR spectroscopy in the evaluation of biochemical parameters of red blood cell storage, P47  
Quality assurance tests and phantoms for NMR imaging, P59  
Techniques employed in development of IV NMR contrast agents, P47  
Toxic nodular goiter in cats: evaluation by nuclear medicine, CT, and NMR, P25
- Nuclear medicine images**  
Noise reduction in Nuclear Medicine images, 532
- Nuclear stethoscope**  
Mercuric iodide detector for continuous monitoring of left ventricular function, P76
- Opiate receptors**  
Study of gastrointestinal opiate receptors: role of Mu receptor on gastric emptying, 689
- Organ motion**  
Cinematic display of organ motion during respiration with impedance plethysmography, P34
- Organ volume**  
Re: determination of organ volume by single-photon emission tomography, 1197 (le)  
Re: determination of organ volume by single-photon emission tomography (reply), 1197 (le)
- Osteomyelitis**  
Can the three-phase bone scan differentiate osteomyelitis from metabolic or metastatic bone disease?, P72  
Comparison of In-111 acetylacetone labeled granulocytes, Ga-67 citrate, and 3-phase MDP skeletal imaging in complicated osteomyelitis, P64  
Diagnostic value of Ga-67 in detection of post-operative sternal osteomyelitis, P64  
Ga-67 scanning in diagnosis of postoperative sternal osteomyelitis, 1001  
In-111 chloride imaging in patients with suspected abscesses, P64  
In-111 chloride imaging in the detection of osteomyelitis, P72  
Limitations of three phase bone scintigraphy in suspected osteomyelitis, P83  
Predicting cure of osteomyelitis under treatment, 110  
Prospective In-111 WBC scan vs Tc-99m-MDP-Ga-67 scan for low-grade osteomyelitis. Final report, P72  
Quantitative functional and static bone scintigraphy for early detection of acute osteomyelitis in children, P83  
Role of Ga-67 citrate imaging in evaluation of nonunited fractures for osteomyelitis, P84  
Scintigraphic detection of osteomyelitis with Tc-99m MDP and Ga-67 citrate, 1019  
Skeletal imaging in osteomyelitis, P71  
Type specific radioimmunoimaging of experimental type-B hemophilus influenzae osteomyelitis, P64  
Use of dynamic bone scanning in differential diagnosis of osteomyelitis, Paget's disease, and primary bone tumors, P83
- Osteonecrosis**  
Radiocolloid hip scintigraphic patterns in osteonecrosis: correlation with bone scintigraphic and radiographic stages, P42
- Osteoporosis**  
Bayes theorem and diagnostic value of total body calcium measurements for osteoporosis, P84
- Oxygen-15**  
Biological analysis and dosimetry for <sup>15</sup>O-labeled O<sub>2</sub>, CO<sub>2</sub>, and CO gases administered continuously by inhalation, 431  
Constant infusion of (O-15)-H<sub>2</sub>O and single breath inhalation of (C-11)-CO for the determination of extravascular lung water by PET, P121  
Dynamic measurement of rCBF and rCMRO<sub>2</sub> using O-15, P91  
External measurement of myocardial oxygen extraction with O-15-labeled oxygen, P20  
Oxygen utilization measured by O-15 radiotracers and PET, P63  
Simulation study on steady-state requirements in O-15 equilibrium model for cerebral blood flow measurement, P107  
Theoretical evaluation of tomographic technique for simultaneous measurement of CBF and oxygen utilization (MRO) with O-15, P63
- Oxygen-18**  
Large-scale production and recovery of aqueous [F-18]-fluoride using proton bombardment of a small-volume [O-18]-water target, P122  
Production of "anhydrous" F-18 via a recyclable O-18 gas target, P121
- Paget's disease**  
Observations of serial radionuclide blood-flow studies in Paget's disease, 880  
Use of dynamic bone scanning in differential diagnosis of osteomyelitis, Paget's disease, and primary bone tumors, P83
- Palladium-109**  
Pd-109 labeled monoclonal antibody to human high molecular weight melanoma associated antigen: potential agent for radiotherapy of human melanoma, P78
- Pancreas**  
C-11-L-tryptophan, potential agent for diagnosis of pancreatic disease using PET, P121  
Diagnosis of early pancreas transplant rejection with In-111 oxine labeled platelets, P55  
Nuclear imaging in pancreas transplantation, P96  
Re: Tc-99m IDA cholescintigraphy in acute pancreatitis, 747 (le)  
Use of In-111 white blood cells in investigation of acute pancreatitis, P79
- Zn-EDDA, new pancreatic agent for functional studies, P123**
- Pancreatitis**  
Re: Tc-99m IDA cholescintigraphy in acute pancreatitis (reply), 748 (le)
- Parathyroid**  
Detecting application of TI-201 chloride scintigraphy for preoperating localization of hyperfunctioning parathyroid nodule, P97  
New perspectives in localizing enlarged parathyroids by technetium-thallium subtraction scan, 438  
Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma, 641 (le)  
Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma, 641 (le)
- Parenchymal transit time index**  
Obstructive nephropathy: comparison of parenchymal transit time index and frusemide diuresis, P16
- Parkinson's disease**  
Local cerebral glucose utilization in Parkinson's disease, P21
- Pediatric nuclear medicine**  
Accuracy of abnormal radioisotope bone scans in children with known disseminated malignancy in remission, P113  
Accuracy of indirect (IV) radionuclide cystogram in children, P23  
Analysis of gastric emptying studies in pediatric population, P33  
Assessment of regional cerebral blood flow in newborn with PET, P22  
Delayed gastric emptying in pediatric patients with Crohn's disease and growth failure, P56  
Effect of captopril on efficacy of renal scintigraphy in detection of renal artery stenosis, P23  
Efficacy of Tc-99m DTPA and Tc-99m DMSA renography in the screening of pediatric patients for renal etiologies of hypertension, P22  
Exercise radionuclide angiography with phase analysis in children with familial hypercholesterolemia, P32  
Hemigenesis of thyroid: clinical and radiological presentation in pediatric patient, 972 (le)  
Normal anatomic variant: scintigraphy of the ischiopubic synchondrosis, 14  
Partial ureteropelvic junction obstruction: comparison of percutaneous antegrade pyelography and diuretic renal scintigraphy, P22  
Pinhole radionuclide ventriculography in small infants, P32  
P-31 NMR spectroscopy in pediatric neuromuscular disorders, P47  
Quantitative functional and static bone scintigraphy for early detection of acute osteomyelitis in children, P83  
Radiographic and scintigraphic skeletal imaging in patients with neuroblastoma, 467  
Renography in pediatric patients, P113  
Scintigraphic evaluation of lacrimal drainage in children, P22  
Scrotal scintigraphy for the evaluation of testicular-epididymal pathology, P33  
Solitary lesion in pediatric bone scanning, 114  
Value of In-111 WBC scanning in inflammatory bowel disease in childhood, P32  
Ventricular function, mitral regurgitation and early prognosis in infants and children with cardiomyopathy, P32
- Perfusion, liver**  
Clinical significance of pulmonary Tc-99m MAA following radionuclide hepatic artery perfusion, P51
- Peritoneal catheter infections**  
In-111 leukocytes scintigraphy for detection of peritoneal catheter tunnel infections, P63
- Peritoneovenous shunt (PVS)**  
Evaluation of peritoneovenous shunt patency with Tc-99m microspheres, 302

# Peritonitis

Abnormal accumulation of Tc-99m hepatobiliary agent in a case of idiopathic bile peritonitis, 1084 (1c)

# Phagocytosis

Effects of autologous rat serum on phagocytosis of radiocolloids by rat Kupffer cells in vitro, P127

# Phantom

Evaluation of SPECT system performance using a SPECT phantom, P58

Improved flood field phantom for SPECT, P59

Multi-hospital survey of reliability of ejection fraction determination using a cardiac phantom, P92

Use of a cardiac phantom for QC checks of camera/computer systems, P59

# Phase analysis

Analysis of cardiac diastolic function: application in CAD, 2

Effect of diastasis frames exclusion on error corrected phase distribution function, P92

Exercise radionuclide angiography with phase analysis in children with familial hypercholesterolemia, P32

Experimental model of LV aneurysm for validation of phase analysis in dog and baboon, P26

Fourier ventricular amplitude ratio to assess valvular regurgitation by gated blood-pool scan, P27

Phase analysis in patients with Wolff-Parkinson-White syndrome with surgically proved accessory conduction pathways, P27

# Pheochromocytomas

Heart imaging in diagnosis of pheochromocytoma and assessment of catecholamine uptake, 1194

Intrathoracic pheochromocytomas concentrate Tl-201 chloride and I-131-MIBG, P54

Sensitivity and specificity of *m*-iodobenzylguanidine scintigraphy for the detection of pheochromocytoma, P54

Synthesis of I-131- and I-123-meta-iodobenzylguanidine for diagnosis and treatment of pheochromocytoma, P118

# Phosphorus-31

P-31 NMR spectroscopy in pediatric neuromuscular disorders, P47

P-31 NMR spectroscopy in the evaluation of biochemical parameters of red blood cell storage, P47

# Phosphorus-32

Elective liver therapy with P-32 chronic phosphate colloid in high risk colon cancer, P111

# pH shift

New brain perfusion imaging agent: [I-123] HIPDM:N,N,N'-trimethyl-N'-[2-hydroxy-3-methyl-5-iodobenzyl]-1,3-propanediamine, 66

# Plasma

Therapeutic drug monitoring by RIA plasma vancomycin in intensive care patients, P115

# Platelets

Biodistribution and survival of human platelets labeled in buffered media and plasma, P73

New approach to Ga-67 labeling of human erythrocytes and platelets, P123

Quantification of platelet turnover in normal animals with In-111-labeled platelets, P26

Quantitative measurement of intravascular thrombus size with In-111 platelet scintigraphy, P73

Re: In-111 tropolone versus oxine, 367 (1c)

Ticlopidine fails to inhibit platelet deposition on dacron prosthetic surfaces in man, P73

# Polymorphonuclear leukocytes

Cell kinetics In-111 PMN leukocytes in experimental abdominal abscesses in rabbits, P102

# Portal systemic circulation

Evaluation of "portal scintigraphy" by intestinal administration of Tc-99m using endoscopy in liver cirrhosis, P48

# Portocaval shunt

Quantitation of portal blood flow following portocaval shunting using Tc-99m MAA, P47

# Positron emission tomography

Accuracy of measured attenuation correction in positron tomography, P10

Advantages and disadvantages of three different ring source designs for use in positron tomography, P103

Application of EM reconstruction algorithm to positron emission tomography, P81

Assessment of regional cerebral blood flow in newborn with PET, P22

Assessment of statistical errors in PET, P104

Autoradiographic measurement of regional cerebral blood flow with PET validation studies, P62

C-11 DMO: biodistribution, radiation absorbed dose, and potential for PET measurement of regional brain pH, 805

C-11 glucose and utilization in PET, 326

C-11 ligand binding to adrenergic and muscarinic receptors of the human heart studied in vivo by PET, P20

C-11-L-tryptophan, potential agent for diagnosis of pancreatic disease using PET, P121

Constant infusion of (O-15)-H<sub>2</sub>O and single breath inhalation of (C-11)-CO for the determination of extravascular lung water by PET, P121

Correlative morphological and functional studies of brain in man, utilizing CT, NMR and PET imaging, P108

Dynamic cardiac studies with super PETT I, P61

Effect of resolution improvement on required count density in emission computed tomography, P11

Evaluation of positron tomograph designed for brain imaging, 245

Evaluation of cerebral glucose metabolism in patients with amyotrophic lateral sclerosis by F-18 FDG and PET, P21

Experimental evaluation of signal amplification technique in positron tomography, P11

Field homogeneity in PET, P105

First-pass measurements of regional blood flow with external detectors, 577

Functional response of human brain to individual and combined visual and auditory inputs, P69

Hemodynamic results of cerebral bypass surgery measured by PET, P108

Human melanoma heterotransplants in nude mice: tumor-localization of radiolabeled  $\alpha$ -aminoisobutyric acid potential agent for imaging with PET, P110

Image improvement and design optimization of time-of-flight PET, 52

Local cerebral glucose metabolism in patients with affective psychiatric disorders: drug-free states and effects of methylphenidate, P21

Local cerebral glucose utilization in Parkinson's disease, P21

Measurement of cerebral blood flow with C-11 butanol and PET, P63

Measurement of local brain pH with <sup>11</sup>CO<sub>2</sub> and PET, P105

Multigated positron tomography of heart, P104

Myelin imaging with PET, P62

Necessity for correcting for cerebral atrophy in global PET measurements, P106

Neuroleptic binding sites: specific labeling in mice with [<sup>18</sup>F]haloperidol, potential tracer for PET, 408

Noninvasive evaluation of regional myocardial fatty acid metabolism in man with C-11 palmitic acid and positron-CT, P12

Orbiting rod source: improving performance in PET transmission correction scans, P11

Oxygen utilization measured by O-15 radiotracers and PET, P63

Patterns of local cerebral glucose utilization in depression, multiple infarct dementia, and Alzheimer's disease, P20

Performance study of the high sensitivity positron computed tomograph for brain, P104

PET in study of soft tissue tumors, P119

Preliminary clinical studies using prototype multiwire proportional chamber positron camera, P103

Preliminary results obtained with TOFPET I: whole-body time of flight PET, P11

Regional extravascular lung water (rELW) determination in edematous dogs by PET, P71

Simulation study on steady-state requirements in O-15 equilibrium model for cerebral blood flow measurement, P107

Time-of-flight positron emission tomography: status relative to conventional PET, 73

Tracer kinetic model of C-11 palmitate (CPA) for estimating regional free fatty acid (FFA) utilization in myocardium, P12

Validation of E-18-3-deoxy-3-fluoro-D-glucose (3FDG) as agent for measurement of glucose transport by PET, P52

# Positron emitters

Quantitative autoradiography with radiopharmaceuticals, part 2: applications in radiopharmaceutical research, 238

# Positron imaging

Computer-aided data analysis of ECT data, P82

Fully automated synthesis systems of radiopharmaceuticals labeled with short-lived positron emitters, P120

Ga-68 BP-IDA for positron imaging of hepatobiliary function, 593

Kinetics of cellular uptake of (N-13)-ammonia, a marker used in myocardial scintigraphy, P20

Multigated positron tomography of heart, P104

Myocardial imaging with 75 second Rb-82 administered intravenously, P77

Myocardial perfusion with Rb-82. I. Measurement of extraction fraction and flow with external detectors, 898

Myocardial perfusion with Rb-82. II. Effects of metabolic and pharmacologic interventions, 907

On behalf of I-123 fatty acids for myocardial metabolic imaging (reply), 546

On-line synthesis of [<sup>15</sup>O]N<sub>2</sub>O: new blood-flow tracer for PET imaging, 603

Quantification of regional myocardial flow with Rb-82 despite pharmacologic intervention, P28

Quantitative measurement of blood brain barrier permeability following osmotic opening, P107

Radiopharmaceuticals for receptor imaging, 442

Regional blood-flow measurement in rabbit soft-tissue tumor with positron imaging using C<sup>15</sup>O<sub>2</sub> steady-state and labeled microspheres, 1135

Synthesis and biodistribution of adenine[C-11], P120

# Positron tomography

Absolute quantitation of local cerebral blood flow and partition coefficient without arterial sampling, P62

Alternative approach to single-scan determination of cerebral glucose metabolic rate using 2-fluorodeoxyglucose (2-FDG) with particular application to ischemia, P69

Assessment of [<sup>18</sup>F]fluorodeoxyglucose kinetic model in calculations of myocardial glucose metabolism during ischemia, 1060

Biodistribution, radiation dosimetry and potential of C-11 dimethyloxazolidinedione for PET, P107

Brain blood flow measured with intravenous H<sub>2</sub><sup>15</sup>. I. Theory and error analysis, 782

Brain blood flow measured with intravenous H<sub>2</sub><sup>15</sup>O. II. Implementation and validation, 790

Compartmental model for in vivo assessment of A-type amino acid transport, P90

Dynamic measurement of rCBF and rCMRO<sub>2</sub> using O-15, P91

Evaluating kinetic behavior of fluorodeoxyglucose in animal tumors, P110

"Figure-of-merit" approach to evaluation of algorithms for ECT, P82

Hexagonal bar positron camera, P11

Labeled choline and phosphorylcholine: body distribution and brain autoradiography, 812

Measurements of regional tissue and blood-pool

- radiotracer concentrations from serial tomographic images of heart, 987
- On behalf of I-123 fatty acids for myocardial metabolic imaging, 545 (le)
- On behalf of I-123 fatty acids for myocardial metabolic imaging (reply), 546
- Positron-CT for evaluation of myocardial metabolism after reperfusion in chronic dogs, P4
- Quantitative measurement of blood brain barrier permeability following osmotic opening, P107
- Restoration of myocardial perfusion and metabolism with PET after coronary thrombolysis, P5
- Probes, in vivo**
- Development of small  $\gamma$ -ray imaging probes for in vivo use, P25
- Propranolol**
- Effect of methyldopa or propranolol on cerebral blood flow in hypertensive patients, P130
- Prostate**
- Can the three-phase bone scan differentiate osteomyelitis from metabolic or metastatic bone disease?, P72
- Effect of diethylstilbestrol therapy on radioisotopic bone scan findings in patients with metastatic carcinoma of the prostate, P57
- Metastatic prostatic pulmonary nodules with normal bone scan, 1026
- Radioimmunoinaging of experimental syngeneic prostatic adenocarcinoma in rats, P102
- The Dunning R3327G prostatic adenocarcinoma tumor model: tumor-localization of radiolabeled thymidine, potential agent for imaging with PETT, P40
- Protein synthesis**
- L-[1-C-11]phenylalanine for the determination of cerebral protein synthesis rates in man with positron emission tomography, P70
- Pulmonary edema**
- Diagnosis of pulmonary edema by In-111 chloride lung-heart imaging, P70
- Regional extravascular lung water (rELW) determination in edematous dogs by PET, P71
- Pulmonary embolism**
- Abnormal perfusion scan due to intrathoracic stomach and colon, 543 (le)
- Comparison between sub-micronic aerosol and Xe-127 for ventilation images, P113
- Extravasation from venous catheter: serious complication potentially missed by lung imaging, 1023
- Nuclear medical manifestation of Munchausen's syndrome, 716
- Ventilation-perfusion lung scanning in pulmonary hypertension, P13
- Ventilation-perfusion (V/Q) lung studies: utilization by referring clinicians, P13
- Pulmonary oxygen toxicity**
- Evaluation of acute pulmonary oxygen toxicity by In-111 leukocytes, P70
- Pulmonary perfusion**
- Significance of estimating redistribution of pulmonary perfusion in CAD, P90
- Pulmonary uptake**
- Quantitation of pulmonary gallium uptake in patients with interstitial lung disease using ECT, P114
- Pyeloureterectasis**
- Hepatobiliary imaging: pyeloureterectasis, 450 (le)
- Quality assurance**
- Personnel exposure from flood phantoms and point sources during quality assurance procedures, 629
- Quality control**
- Application of the Budinger equation to evaluate signal to noise ratios of single photon emission tomographic systems, P74
- Interlaboratory survey for thyroid, steroid and protein assays in Italy, P115
- London liver phantom, 974 (le)
- Multi minicolumn system for quantitative preinjection quality control of Tc labeled compounds, P128
- Quality assurance tests and phantoms for NMR imaging, P59
- Quality control of Tc-99m DTPA for measurement of glomerular filtration, 722
- Uniform bacterial endotoxins test for radiopharmaceuticals, P123
- Use of a cardiac phantom for QC checks of camera/computer systems, P59
- Quantitative analysis**
- Early changes in thallium distribution: effect on scan quantitation, P46
- Quantitative measurement of long term in vivo thallium distribution in human, P50
- Sources of variability in thallium circumferential profile curve analysis, P45
- Tl-201 kinetics shortly after termination of exercise: implications for quantitative analysis, P46
- Radiation biology**
- "Biological dosimetry" of radionuclides and radiation hazards, 160
- Radiation dose**
- Altered gastric emptying during radiation-induced vomiting, P56
- Biodistribution, radiation dosimetry and potential of C-11 dimethylxazolidinedione for PET, P107
- C-11 DMO: biodistribution, radiation absorbed dose, and potential for PET measurement of regional brain pH, 805
- Dosimetry of N-isopropyl I-123 p-iodoamphetamine, P49
- Effects of ionizing radiations on gastric secretion in rhesus monkeys, P98
- Personnel exposure from flood phantoms and point sources during quality assurance procedures, 629
- Radiation dose calculations for inhalation of Tc-99m sulfur colloid radioaerosol, 816
- Radiation dose estimates for oral agents used in upper gastrointestinal disease, 835
- Transient toxicity of 2-deoxy-2-[<sup>18</sup>F]fluoro-D-glucose in mammalian cells, 1055
- Radiation dose, fetal**
- Radiation dose estimates to human fetal thyroid at various stages of development, P95
- Radiation safety**
- Antique hazards: latter day encounter with radium, 79
- Radioactive contamination**
- Radioactive contamination in laboratory blood samples, P115
- Radioaerosol**
- Radiation dose calculations for inhalation of Tc-99m sulfur colloid radioaerosol, 816
- Radioassay**
- Interlaboratory survey for thyroid, steroid and protein assays in Italy, P115
- Radioactive contamination in laboratory blood samples, P115
- Radiohalodestannylation**
- Radiohalodestannylation: labeling of substituted trialkylstannylarenes and ethylenes, P116
- Radioimmunoassay**
- Carcinoembryonic antigen: assay following heat compared with perchloric acid extraction in patients with colon cancer, non-neoplastic gastrointestinal diseases, or chronic renal failure, 916
- Clinical assessment of radioimmunoassay for free thyroxine using modified tracer, 498
- Clinical correlation of Amerlex free T<sub>4</sub> radioimmunoassay in various clinical conditions, P44
- Clinical evaluation of new solid-phase sequential RIA for free T<sub>4</sub>, P35
- Clinical utility of two-site immunoradiometric assay for creatine kinase-MB in detection of perioperative myocardial infarction, 703
- Clinical value of FT<sub>3</sub> RIA, P96
- Comparison of methods for CK-MR detection in suspected acute MI, P35
- Comparison of reverse T<sub>3</sub> and T<sub>3</sub> resin uptake, P44
- Creatine kinase-MB immunoradiometric assay to diagnose MI following aortocoronary bypass surgery, P35
- Evaluation of free T<sub>4</sub> RIA for assessing thyroid function in nonthyroidal illness, P96
- FT<sub>4</sub> estimates in patients with nonthyroidal illnesses, P44
- Measurement of blood deslanoside concentration using digoxin RIA kit for therapeutic drug monitoring, P115
- Measurement of plasma P-97 levels in melanoma patients using a new radioassay, P35
- Mismatched serum vitamin B-12 and Schilling test results: incidence and possible causes, P114
- Modified RIA for differential detection of IgM-anti-HBc, P35
- New derivative assay (Corning Medical) for estimation of FT<sub>4</sub>, P44
- Potential interfering antibody response in TSH assays, 173 (le)
- RIA of human leukocyte interferon, P34
- Sensitive RIA for detection of serum thyrotropin in healthy subjects and patients with suppressed pituitary function, P114
- Serum 3,3'-Diiodothyronine (3,3'-T<sub>2</sub>, 3',5'-T<sub>2</sub> and 3,5-T<sub>2</sub>) levels in normal and altered thyroid states, P65
- Serum free thyroxine methods, comparative study, P44
- Therapeutic drug monitoring by RIA plasma vancomycin in intensive care patients, P115
- Thyroid function in hemodialysis patients, P65
- Radioimmunodetection**
- Radioimmunodetection and treatment of human colon cancer in nude mice using a monoclonal antibody, P110
- Tumor imaging with monoclonal antibodies, 360
- Radioimmunolocalization**
- Radioimmunolocalization of human mammary tumor transplants using monoclonal antibodies, P109
- Radioiodinated estrogens**
- Radioiodinated estrogens: preparation and evaluation of 17  $\alpha$ -iodovinyl and iodothieryl estradiols, P116
- Radioiodine therapy**
- Value of radioiodine therapy in the treatment of differentiated thyroid carcinoma, P112
- Radionuclides**
- Particulate radiations emitted during electron capture and isomeric transitions, 1192
- Radionuclide scrotal imaging**
- Radionuclide scrotal imaging: further experience with 210 patients part I: anatomy, pathophysiology, and methods, 735
- Radiopharmaceutical chemistry**
- Applications of aryltrimethylsilanes in radiobrominations, P43
- HPLC analysis of Tc-99m(Sn)-pyridoxylidenamines and Tc-99m(Sn)-N-pyridoxylamines: its chemical and biological implications, P127
- Properties of N-methyl derivative of 3-quinuclidinyl 4-iodobenzilate, P116
- Synthesis and characterization of neutral aminoethanol complexes of technetium, P127
- Radiopharmaceutical production**
- Large-scale production and recovery of aqueous [F-18]-fluoride using proton bombardment of a small-volume [O-18]-water target, P122
- Production of "anhydrous" F-18 via a recyclable O-18 gas target, P121
- Simplified synthesis of [F-18]2-FDG using acetyl hypofluorite from acetate salt adsorbed on an inert support, P121
- Targetry for F-18 production from small accelerators, P121
- Radiopharmaceuticals, placental transportation**
- Transportation of Tc-99m PPI across the placenta in sheep, P126
- Radiopharmacokinetic model**
- Identifiability of receptor-binding radiopharmacokinetic model, P33

# **Radium**

Antique hazards: latter day encounter with radium, 79

## **Receiver operating characteristic (ROC) analysis**

Bayes theorem and diagnostic value of total body calcium measurements for osteoporosis, P84  
Comparison of SPECT with planar scintigraphy and transmission computed tomography in focal hepatic disease, P37  
Effect of texture on detectability of abnormalities in medical imaging, P66  
Normal limits for the quantitative analysis of stress Tl-201 myocardial scintigrams: multicenter validation, P45  
Optimal count rates for reliable assessment of Tl-201 myocardial washout, P28  
Planar versus tomographic imaging with Tc-99m PPI for detection of acute MI in patients, P38  
ROC-analysis of single or combined CEA and TPA determination in a wide spectrum of cancer patients, P112

## **Red blood cells**

Comparison of ability of radioiodinated monoclonal anti-rat thy 1 (OX7) to image SL2 tumors located subcutaneous or in the subrenal capsule, P102  
P-31 NMR spectroscopy in the evaluation of biochemical parameters of red blood cell storage, P47

## **Red blood cells, in vivo labeling**

Optimized method of RBC labeling for use in gated cardiac studies in dogs and baboons, P26

## **Reflux**

Accuracy of indirect (IV) radionuclide cystogram in children, P23

## **Regional wall motion**

Clinical validation of totally automated method for assessing regional left ventricular function from rest/exercise radionuclide ventriculography, P53  
Critical importance of left lateral and left posterior oblique views for evaluating regional wall motion with multigated cardiac blood-pool imaging in acute MI, P68  
Detailed assessment of regional wall motion in acute transmural MI: frequent spontaneous improvement and discordance from global left ventricular function, P67  
Evaluation of RV function by gated blood-pool scintigraphy, 886  
Functional recovery of LVEF and RVEF following streptokinase reperfusion: relation to timing and impacts of LAD/RCA reopening, P4  
Limitations of count-based REF as a means of assessing regional left ventricular function in transmural MI, P17  
Nonorthogonal factor analysis in gated cardiac studies, P62  
Paradoxical improvement of resting myocardial wall motion abnormalities during exercise, P87  
Quantitative assessment of wall motion in multiple-gated studies using temporal Fourier analysis, 388  
Relative accuracy of automated analysis of regional wall motion in diagnosis of CAD, P91  
Time of onset of stress-induced left ventricular wall motion abnormalities aids in the prediction of the presence and severity of CAD, P53

## **Regurgitant fraction**

New correction method for first-pass (FP) flow determination and application to calculation of regurgitant fraction, P88

## **Renal artery stenosis**

See also Kidney  
Effect of captopril on efficacy of renal scintigraphy in detection of renal artery stenosis, P23

## **Renal function**

See also Kidney  
Clinical studies of renal function during colic attack induced by urolithiasis, P129  
Differential renal function in diagnosis of renovascular hypertension and followup of balloon angioplasty, P129

Evaluation of 16 new Tc-99m compounds for renal tubular excretion studies, P80

## **Renal hypertension**

See also Kidney  
Efficacy of Tc-99m DTPA and Tc-99m DMSA renography in the screening of pediatric patients for renal etiologies of hypertension, P22

## **Renal ischemia**

See also Kidney  
Renal uptake of Tc-99m DMSA to assess renal ischemia and pretreatment drug effects, P16

## **Renal perfusion**

Unmasking of asymmetrical renal perfusion after exercise in unilateral renovascular hypertension, 448 (le)

## **Renograms**

Exercise renogram. New approach documents renal involvement in systemic hypertension, 104

Re: exercise renogram. New approach documents renal involvement in systemic hypertension, 859 (le)

Re: exercise renogram. New approach documents renal involvement in systemic hypertension (reply), 859 (le)

## **Renography**

Renography in pediatric patients, P113

## **Resolution**

Polarity in a hexagonal collimator, 1203 (le)  
SPECT resolution and uniformity improvements by noncircular orbit, 822

## **Respiration artifacts**

Cinematic display of organ motion during respiration with impedance plethysmography, P34

## **Rhabdomyolysis**

Scintigraphic evaluation of muscle damage following extreme exercise, 308  
Skeletal scintigraphy in differential diagnosis of lower extremity pain in athletes, P41

## **Rhabdomyosarcoma**

Rhabdomyosarcoma concentrating Tc-99m MDP, 1082 (le)

## **Rhenium-186 HEDP**

Re-186 HEDP: potential therapeutic bone agent, P125

## **Rubidium-82**

First-pass measurements of regional blood flow with external detectors, 577  
Myocardial imaging with 75 second Rb-82 administered intravenously, P77  
Myocardial perfusion with Rb-82. I. Measurement of extraction fraction and flow with external detectors, 898  
Myocardial perfusion with Rb-82. II. Effects of metabolic and pharmacologic interventions, 907  
Peak-counts model for measuring regional myocardial blood flow with Rb-82, P86  
Quantification of regional myocardial flow with Rb-82 despite pharmacologic intervention, P28  
Sequential myocardial perfusion planar imaging with Rb-82 reflecting acute changes in blood flow, P85

## **RV function**

Evaluation of RV function by gated blood-pool scintigraphy, 886

## **Salivary glands**

I-131 MIBG uptake reflects integrity of sympathetic innervation, P55

## **Sarcomas**

Arterial perfusion with Tc-99m MAAAP in monitoring intra-arterial chemotherapy of sarcomas, 297  
Semiquantitative gallium scintigraphy in patients with osteogenic sarcoma, P112

## **Scatter fraction**

Influence of scatter on quantitative determination of LVEF in gated cardiac scans, P103

## **Schilling test**

Mismatched serum vitamin B-12 and Schilling test results: incidence and possible causes, P114

## **Scintigraphy**

See also Cholescintigraphy; Immunoscintigraphy; Lymphoscintigraphy

Automated method for normalization of scintigraphic images, 529

Clinical experience with Tc-99m MAA hepatic artery perfusion scintigraphy, P51

Comparison of predischARGE exercise testing, Tl-201 scintigraphy and coronary angiography for identifying post-infarction patients at risk for future cardiac events, P36

Correlative study of liquid phase radionuclide esophageal transit scintigraphy with radiographic, manometric and endoscopic parameters in patients with suspected esophagitis, P39

Diagnostic value of image processing in myocardial scintigraphy, 768

Digital methods for change detection in scintigraphic images, P67

Effect of captopril on efficacy of renal scintigraphy in detection of renal artery stenosis, P23

Effect of doxorubicin on [ $\omega$ -I-131]heptadecanoic acid myocardial scintigraphy and echocardiography in dogs, 1012

Minimum gastrointestinal bleeding rate detectable by abdominal scintigraphy, P97

Normal anatomic variant: scintigraphy of the ischiopubic synchondrosis, 14

Radiocolloid hip scintigraphic patterns in osteonecrosis: correlation with bone scintigraphic and radiographic stages, P42

Rupture of a spontaneous aortoduodenal fistula visualized with Tc-RBC scintigraphy, 332

Scintigraphic demonstration of tracheoesophageal fistula, 1151

Scintigraphic detection of ventricular aneurysm with Tl-201, 34

Scintigraphic evaluation of muscle damage following extreme exercise, 308

Scrotal scintigraphy for the evaluation of testicular-epididymal pathology, P33

Semiquantitative gallium scintigraphy in patients with osteogenic sarcoma, P112

SPECT compared to planar Tc-99m pyrophosphate infarct-avid scintigraphy, P18

## **Scintigraphy, subtraction**

Diagnosis of upper abdominal infections by In-111 leukocytes with Tc-99m colloid subtraction technique, 212

## **Scintillation cameras**

Blood flow ratios obtained by residue detection and linear regression, P93

Diagnosis of clinically unsuspected gallbladder perforation in obese patient, by Tc-99m IDA cholescintigraphy, 1028

Effects of improper camera operation on ejection fraction measurements, P103

Error and corrections with scintigraphic measurement of gastric emptying of solid foods, 197

Interpretation of the NEMA protocols for scintillation camera performance, 973 (le)

Modular imaging system for use in nuclear medicine, P25

Scintigraphic estimation of arterial and portal blood supplies to liver, 1099

Validation of corrections for errors in collimation during measurement of gastric emptying of nuclide-labeled meals, 187

Variable angle slant-hole collimator, 61

## **Scrotal imaging, radionuclide**

Radionuclide scrotal imaging: further experience with 210 new patients. Part 2: Results and discussion, 841

## **Septic shock**

Radionuclide and hemodynamic assessment of right ventricular performance in septic shock, P87

## **Serum thyrotropin**

Sensitive RIA for detection of serum thyrotropin in healthy subjects and patients with suppressed pituitary function, P114

## **Seven-pinhole collimator**

Tomoscintigraphic assessment of myocardial metabolic heterogeneity, 285

**Shunts, ventricular**

Radionuclide quantitation of CSE shunt flow in adults: emphasis on patient position, P105

**Signal amplification technique**

Experimental evaluation of signal amplification technique in positron tomography, P11

**Single-photon emission computed tomography (SPECT)**

Angular SPECT: improved method for cranial tomographic imaging, P75

Application of the Budinger equation to evaluate signal to noise ratios of single photon emission tomographic systems, P74

Cardiac NMR imaging correlated with TI-201 SPECT for visualization of heart chambers, ventricular wall motion and MI, P46

Cerebral blood-flow tomography: Xe-133 compared with isopropyl-amphetamine-I-123, 17

Clinical evaluation of SPECT on screening of small hepatocellular carcinoma, P29

Collimator choice for differential uptake measurements using SPECT imaging with I-123, P75

Comparative tomographic imaging performance of hybrid coded-aperture/parallel-plate stationary collimator and rotating camera, P25

Comparison of planar bone scintigraphy and SPECT in evaluation of patients with paranasal sinus disease, P58

Comparison of rotational tomography with planar imaging for TI-201 stress myocardial scintigraphy, P18

Comparison of SPECT with planar scintigraphy and transmission computed tomography in focal hepatic disease, P37

Correlative imaging of malignant external otitis, P94

Count-rate variations with orientation of camera detector, 356

Detection and quantitation of remote MI by tomographic exercise-redistribution TI-201 scintigraphy, P36

Detection of masses in subphrenic space, P37

Detection of severe coronary heart disease with TI-201: comparison of resting single photon emission tomography with invasive arteriography, 761

Determination of left ventricular mass using SPECT, P86

Effect of resolution improvement on required count density in emission computed tomography, P11

Evaluation of dynamic SPECT in the hepatobiliary scintigraphy, P99

Evaluation of nontransmural MI by TI-201 SPECT, P18

Evaluation of SPECT system performance using a SPECT phantom, P58

Fast wiener digital post-processing of SPECT images, P81

Gated cardiac blood pool ECT from only two coded views, P61

Improved flood field phantom for SPECT, P59

Improvement of scintigraphic liver imaging by SPECT: review of 797 cases, P29

I-123 *N*-isopropyl amphetamine (I-123 AMP) SPECT in epilepsy and cerebral ischemia, P108

Lung distribution and kinetics of I-123 HIPDM: potential agent for early detection of lung cellular injury, P71

Microcirculation of hepatic tumors studied by SPECT and intra-arterial Tc-99m MAA, P51

Multiple gated SPECT ventriculography, P91

Optimal myocardial SPECT imaging parameters, P67

Performance of collimators used for tomographic imaging of I-123 contaminated with I-124, 1065

Potentiality of D7PHT for dynamic tomography, P75

Quantitation of myocardial necrosis with Tc-99m-monoclonal antimyosin Fab and SPECT, P37

Quantitation of TI-201 myocardial perfusion defect size by SPECT, P29

Quantitative evaluation of source volumes with SPECT, P93

Quantitative tomographic imaging evaluation of myocardial clearance of I-123 phenyl pentadecanoic acid in acute myocardial infarction, P12

Re: attenuation compensation in single-photon emission tomography: comparative evaluation, 644 (le)

Re: attenuation compensation in single-photon emission tomography: comparative evaluation, 644 (le)

Re: attenuation compensation in single-photon emission tomography: comparative evaluation (reply), 644 (le)

Re: determination of organ volume by single-photon emission tomography, 1197 (le)

Re: determination of organ volume by single-photon emission tomography (reply), 1197 (le)

Regional cerebral blood flow measured with I-123-labeled diamine or amphetamine and radioactive tracer microspheres, P6

Re: SPECT for assessment of hepatic lesions: its role in diagnostic work-up, 746 (le)

Re: SPECT for assessment of hepatic lesions: its role in diagnostic work-up (reply), 746 (le)

Scintigraphic quantitation of myocardial ischemia, P19

Simple system for generating non-circular orbits in SPECT in order to reduce the importance of uniformity artefacts, P74

Single-photon tomography of regional brain blood flow in patients with arteriovenous malformations, P105

Sizing of perfusion defects using *N*-isopropyl I-123 *p*-iodoamphetamine brain scans in acute stroke, P6

Skeletal imaging in temporomandibular joint disease, P42

SPECT brain imaging agent, (I-123)HIPDM in man with rotating gamma camera, P5

SPECT compared to planar Tc-99m pyrophosphate infarct-avid scintigraphy, P18

SPECT in suspected internal derangements of knee, P41

SPECT resolution and uniformity improvements by noncircular orbit, 822

SPECT resolution and uniformity improvements by non-circular orbit, P74

SPECTrum of TI-201 imaging in CAD, 854

Subtraction of scattered events from SPECT photopeak events, P82

TI-201 single photon emission tomography (SPECT), 273 (le)

TI-201 single photon emission tomography (SPECT) (reply), 273 (le)

TI-201 (SPECT) (reply), 274 (le)

Vascular intrahepatic defects in SPECT of the normal liver as defined by Tc-99m RBCs and sulfur colloid, P30

Xe-133 DSPECT in unilateral cerebrovascular disease. Comparative study to transmission CT and x-ray angiography, P6

**Skin**

Sterile Xe-133 in saline for tissue perfusion studies, 1070

**Slant-hole collimator**

Angular SPECT: improved method for cranial tomographic imaging, P75

ECT of heart using rotating slant-hole collimator and two orthogonal camera positions, P61

**Slant-hole collimator, variable angle**

Variable angle slant-hole collimator, 61

**Slow infusion gated acquisition**

Slow infusion gated acquisition: alternative first-pass method for determining left ventricular ejection fraction, P88

**Somatostatin**

Gallbladder emptying: effect of somatostatin, P39

**Spiperone**

Spiperone metabolism: significance for kinetic modeling and nonspecific binding estimates, P106

**Spleen**

Functional asplenia and patients with chronic graft-versus-host disease, P74

Functional asplenia in patients with chronic graft-versus-host disease, 1123

Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid, 971 (le)

Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid (reply), 972 (le)

Value of selective spleen scintigraphy when liver/spleen image shows equivocal spleen defects, 559

**Stannous ion stability**

Re: stability of stannous ion in stannous pyrophosphate kits, 1080 (le)

**Statistics**

Assessment of statistical errors in PET, P104

Effect of stochastic pixel noise on distributions of magnitude and phase values in Fourier analysis of gated studies, P17

**Statistics, chi-square**

Statistics for nuclear medicine. Part 3: A. Comparing two proportions (relative deviate test and chi-square equivalent). B. Counting data, 269

**Statistics, counting data**

Statistics for nuclear medicine. Part 3: A. Comparing two proportions (relative deviate test and chi-square equivalent). B. Counting data, 269

**Statistics, descriptive**

Statistics for nuclear medicine introduction, descriptive statistics, graphic displays, 83

**Statistics, estimation from samples**

Statistics for nuclear medicine Part 2: estimation from samples and *t*-tests, 165

**Statistics, graphic displays**

Statistics for nuclear medicine introduction, descriptive statistics, graphic displays, 83

**Statistics, normal values**

Statistics for nuclear medicine. Part 6: normal values, evaluating new diagnostic procedure, sequential methods, and conclusion, 535

**Statistics, regression**

Statistics for nuclear medicine. Part 4: regression, 363

**Statistics, related deviate**

Statistics for nuclear medicine. Part 3: A. Comparing two proportions (relative deviate test and chi-square equivalent). B. Counting data, 269

**Statistics, sequential methods**

Statistics for nuclear medicine. Part 6: normal values, evaluating new diagnostic procedure, sequential methods, and conclusion, 535

**Statistics, survivorship studies**

Statistics for nuclear medicine part 5: survivorship studies, 444

**Statistics, *t*-tests**

Statistics for nuclear medicine Part 2: estimation from samples and *t*-tests, 165

**Stenosis**

ECG-gated blood-pool study of carotid arterial pulsation as sign of stenosis, 470

**Stomach**

Perchnetate and stomach—continuing controversy, 633

**Stress fractures**

Stress fracture diagnosis: clinical or radiological, P41

**Stress testing**

Comparison of supine bicycle and dobutamine radionuclide cardiac stress testing: technical considerations, P54

**Strontium-89**

Palliation of metastatic cancer to bone with strontium-89, P57

**Synovial fluid effusion**

Pathophysiology of synovial effusions: intra-articular volume, metabolism and clearance kinetics, P85



**Tantalum-178**

Biological fate of W-178 and Ta-178, P122

**Technetium-99 DMSA**

Accumulation of Tc(V)-99m dimercaptosuccinic acid in the medullary thyroid carcinoma, P66

**Technetium-99m**

Abnormal accumulation of Tc-99m hepatobiliary agent in a case of idiopathic bile peritonitis, 1084 (le)

Altered gastric emptying during radiation-induced vomiting, P56

Clinical evaluation of Tc-99m-N,N'-bis(mercaptoacetyl)-2,3-diaminopropanoate (component A) (Tc-99m-CO<sub>2</sub>-DADS-A) as a replacement for I-131-hippuran, P80

Clinical validation of fully automated computation of ejection fraction from gated blood-pool scintigrams, P93

Detecting application of Tl-201 chloride scintigraphy for preoperating localization of hyperfunctioning parathyroid nodule, P97

Determination of left-ventricular volume from first-pass kinetics of labeled red cells, 98

Direct measurement of extraction efficiencies and mean transit times of hepatobiliary agents in the perfused rat liver, P126

Distribution of *Candida albicans* in mice, P102

Gated blood-pool studies of cardiac function in rat and marmoset, 728

HPLC analysis of Tc-99m(Sn)-pyridoxylidencarbinates and Tc-99m(Sn)-N-pyridoxylaminates: its chemical and biological implications, P127

Improved interpretation of Tc-99m gated sequentially graded exercise angiographic data using multivariate analysis, P53

Multi minicolumn system for quantitative preinjection quality control of Tc labeled compounds, P128

Nuclear medical manifestation of Munchausen's syndrome, 716

Quantitation of myocardial necrosis with Tc-99m-monooclonal anti-myosin Fab and SPECT, P37

Quantitative measurement of intravascular thrombus size with In-111 platelet scintigraphy, P73

Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma, 641 (le)

Synthesis and biodistribution of neutral lipid-soluble Tc-99m complexes which cross the blood-brain barrier, P23

Synthesis and characterization of neutral aminoethanol complexes of technetium, P127

Synthesis and characterization of neutral oxotechnetium-(V)diaminodithiol complex, P10

Synthesis of neutral, lipid soluble technetium complexes of bis(2-mercaptoethyl)amines, P10

Tc-99m bifunctional chelating agent: thiolactone for coupling to biomolecules, N<sub>2</sub>S<sub>2</sub> ligand for chelation to technetium, P126

Tc-99m nucleotides as potential radiodiagnostic agents for tumor imaging, P126

Walker 256 tumor for studying bone imaging agents, P124

**Technetium-99m albumin microspheres**

Demonstrating patency of STA-MCA anastomosis with Tc-99m albumin microspheres, 136

**Technetium-99m antimony sulfide**

Altered uptake of Tc-99m antimony sulfide colloid by lymph nodes post-irradiation, P95

Effects of metastatic (13762) and non-metastatic (R3230AC) mammary adenocarcinoma on radiocolloid localization in regional lymph nodes in Fischer 344 rats, P40

Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs, 369 (le)

Re: cardiac lymphoscintigraphy following closed-chest catheter injection of radiolabeled colloid into myocardium of dogs (reply), 369 (le)

Re: lymphoscintigraphy with Tc-99m dextran, 370 (le)

Re: lymphoscintigraphy with Tc-99m labeled dextran (reply), 370 (le)

Re: potential for lymphoscintigraphy, 371 (le)

**Technetium-99m BIN**

Tc-99m BIN versus Tl(I)-201 in myocardial imaging, P127

**Technetium-99m colloid**

Diagnosis of upper abdominal infections by In-111 leukocytes with Tc-99m colloid subtraction technique, 212

Effects of autologous rat serum on phagocytosis of radiocolloids by rat Kupffer cells in vitro, P127

**Technetium-99m DADS**

Evaluation of 16 new Tc-99m compounds for renal tubular excretion studies, P80

Investigation of radiopharmaceutical components by fast atom bombardment mass spectrometry: identification of Tc-HIDA and epimers of Tc-CO<sub>2</sub>DADS, 353

**Technetium-99m dextran**

Re: lymphoscintigraphy with Tc-99m dextran, 370 (le)

Re: lymphoscintigraphy with Tc-99m labeled dextran (reply), 370 (le)

**Technetium-99m diphosphonate**

Comparison of Tc-99m MDP, HMDP, and DPD with respect to bone to soft-tissue ratios, 1201 (le)

Comparison of Tc-99m MDP, HMDP, and DPD with respect to bone to soft-tissue ratios, 1202 (le)

**Technetium-99m DISIDA**

Association of biliary cholesterol crystals and gallbladder ejection fraction, P8

Hepatobiliary imaging: pyeloureterectasis, 450 (le)

Quantitative analysis of liver function in percutaneous transhepatic drainage patients, P30

**Technetium-99m disofen**

"Dilated cystic duct sign": potential cause of false-negative cholecistigraphy, P97

**Technetium 99m disofenin**

Influence of scan and pathological criteria on specificity of cholecistigraphy, P8

Influence of scan and pathologic criteria on specificity of cholecistigraphy, 876

**Technetium-99m DMPE**

Comparison of ability of radioiodinated monoclonal anti-rat thy 1 (OX7) to image SL2 tumors located subcutaneous or in the subrenal capsule, P102

Neonatal rat myocytes in tissue culture as a model for study of monovalent cation transport, P86

Noah's ark experiment. Search for suitable animal model for cationic Tc-99m myocardial imaging agents, P9

Synthesis and characterization of [99m-Tc(dmpe)<sub>3</sub>]<sup>+</sup>, potential myocardial imaging agent, P9

Synthesis, structure and biodistribution studies of technetium cationic complex-[Tc(dmpe)<sub>3</sub>]<sup>+</sup>, P9

**Technetium-99m DMSA**

Efficacy of Tc-99m DTPA and Tc-99m DMSA renography in the screening of pediatric patients for renal etiologies of hypertension, P22

Mammalian predictive model of renal obstruction using Tc-99m DMSA, P130

New 99m-Tc(V)DMSA tumor imaging radiopharmaceuticals, with distinctive behavior from renal 99m-Tc-DMSA, P126

Renal uptake of Tc-99m DMSA to assess renal ischemia and pretreatment drug effects, P16

**Technetium-99m DPD**

Computer analysis of Tc-99m DPD and Tc-99m MDP kinetics in human, 334

**Technetium-99m DTPA**

Comparative cumulated activities for Tc-99m pertechnetate and Tc-99m DTPA determined throughout gestation from rat data, P95

Computer-quantitated renal uptake vs. plasma clearance of Tc-99m DTPA in rats with and without glomerular damage, P80

Differential renal function in diagnosis of renovascular hypertension and followup of balloon angioplasty, P129

Direct determination of relative renal blood flow using the Tc-99m DTPA renogram, P80

DMSA renal uptake: sensitive and specific marker of nephron function?, P129

Effects of ionizing radiations on gastric secretion in rhesus monkeys, P98

Efficacy of Tc-99m DTPA and Tc-99m DMSA renography in the screening of pediatric patients for renal etiologies of hypertension, P22

Increased Tc-99m DTPA uptake in active Graves' ophthalmopathy and pretibial myxoedema, 174 (le)

Increase in pulmonary epithelial pore dimensions among smokers documented by diffusion scintiscan, P14

Quality control of Tc-99m DTPA for measurement of glomerular filtration, 722

Rapidly changing appearance of deposited submicronic Tc-99m DTPA aerosol in smokers' lungs, P113

Split renal function testing using 99m-Tc-DTPA: rapid technique for determining differential glomerular filtration, P80

Tc-99m DTPA transmit time as an index of proximal tubular function, P16

Validation of corrections for errors in collimation during measurement of gastric emptying of nuclide-labeled meals, 187

**Technetium-99m endotoxin**

Distribution of radiolabeled endotoxin in the eye, 29

**Technetium-99m glucoheptonate**

Measurement of differential renal function using Tc-99m glucoheptonate, P15

Tc-99m GHA imaging in lung cancer and benign lung diseases, 997

**Technetium-99m HAM**

Evaluation of peritoneovenous shunt patency with Tc-99m microspheres, 302

**Technetium-99m HEDP**

Relative distribution of diphosphonate between bone and soft tissue at 4 and 24 hr, 208

**Technetium-99m HIDA**

Investigation of radiopharmaceutical components by fast atom bombardment mass spectrometry: identification of Tc-HIDA and epimers of Tc-CO<sub>2</sub>DADS, 353

Re: Tc-99m IDA cholecistigraphy in acute pancreatitis, 747 (le)

Structure-distribution-relationship approach leading to development of Tc-99m mebrofenin: improved cholecistigraphic agent, 423

Use of pinhole collimator and analog motion correction in cholecistigraphy, P94

**Technetium-99m HMDP**

Tc-99m HMDP and Tc-99m MDP: biological and clinical comparison, 463

**Technetium-99m HSA**

Clinical evaluation of dynamic lymphoscintigraphy with Tc-99m HSA, P41

Early diagnosis of adult respiratory distress syndrome by Tc-99m human serum albumin and portable probe, P70

**Technetium-99m IDA**

Diagnosis of clinically unsuspected gallbladder perforation in obese patient, by Tc-99m IDA cholecistigraphy, 1028

Quantitative biliary dynamics: introduction of new noninvasive scintigraphic technique, 217

Re: Tc-99m IDA cholecistigraphy in acute pancreatitis (reply), 748 (le)

**Technetium-99m immunoglobulins**

Re: Tc-99m antibodies and staphylococcal endocarditis, 173 (le)

Re: Tc-99m antibodies and staphylococcal endocarditis (reply), 173 (le)

**Technetium-99m labeled protein**

Alpha helix and protein binding of Tc-99m, P23

**Technetium-99m-labeled resins**

Rapidly and conveniently prepared Tc-99m resin for semi-solid gastric emptying studies, P100

**Technetium-99m MAA**

Abnormal perfusion scan due to intrathoracic stomach and colon, 543 (le)

Clinical experience with Tc-99m MAA hepatic artery perfusion scintigraphy, P51

Clinical significance of pulmonary Tc-99m MAA following radionuclide hepatic artery perfusion, P51

Intraarterial cancer chemotherapy, arterial occlusion, and Tc-99m MAA perfusion scintigraphy, 966

Microcirculation of hepatic tumors studied by SPECT and intra-arterial Tc-99m MAA, P51

Quantitation of portal blood flow following portacaval shunting using Tc-99m MAA, P47

Quantitative hepatic arterial perfusion scintigraphy and starch microspheres in cancer chemotherapy, 871

Radionuclide liver perfusion scintigraphy with Tc-99m MAA contribution of computer data processing, P109

Re: thyroid activity on Tc-99m MAA lung scans, 749 (le)

Re: uptake of Tc-99m MAA by the liver during a lung scan (reply), 747 (le)

Starch microspheres and quantitative hepatic arterial perfusion scintigraphy in cancer chemotherapy, P51

Uptake of Tc-99m MAA by liver during thrombosclintigram/lung scan, 36

Ventilation-perfusion lung scanning in pulmonary hypertension, P13

Xc-133 tumor blood flow and Tc-99m-MAA perfusion scintigraphy in head and neck tumors, P112

**Technetium-99m MAAAP**

Arterial perfusion with Tc-99m MAAAP in monitoring intra-arterial chemotherapy of sarcomas, 297

**Technetium-99m MDP**

Assessment of technetium and gallium scanning in patient with painful total joint arthroplasty, P84

Comparative uptake of Ga-67 and Tc-99m MDP in benign noninfected bone lesion (fracture), P42

Comparison of three-phase bone scintigraphy and Ga-67 imaging in evaluation of painful total hip prostheses, P84

Computer analysis of Tc-99m DPD and Tc-99m MDP kinetics in human, 334

Differential skeletal uptake of Tc-99m pyrophosphate and methylene diphosphonate in leukemia, 799

Effect of hypophysectomy and hormonal replacement on the uptake of Tc-99m MDP in the metaphysis and shaft of the rat femur, 224

Evaluation of post operative sternum with Ga-67 and Tc-99m medronate, P85

Limitations of three phase bone scintigraphy in suspected osteomyelitis, P83

Plantar imaging: study of feed during Tc-99m-MDP bone scans, P83

Preparative control, HPLC analysis, and in vivo evaluation of components of a technetium-MDP radiopharmaceutical mixture, P23

Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma, 641 (le)

Rhabdomyosarcoma concentrating Tc-99m MDP, 1082 (le)

Role of Ga-67 citrate imaging in evaluation of nonunited fractures for osteomyelitis, P84

Scintigraphic detection of osteomyelitis with Tc-99m MDP and Ga-67 citrate, 1019

Skeletal imaging in osteomyelitis, P71

Soft-tissue uptake of Tc-99m MDP in secondary scrotal lymphedema, 275 (le)

Solitary lesion in pediatric bone scanning, 114

Tc-99m HMDP and Tc-99m MDP: biological and clinical comparison, 463

Tc-99m MDP and Ga-67 citrate accumulation in

cutaneous metastases from colon carcinoma, 1202 (le)

Variability of follow-up bone scans after asymptomatic total hip prostheses, P72

**Technetium-99m mebrofenin**

Comparative evaluation of Tc-99m mebrofenin and Tc-99m pyridoxyl-5-methyltryptophan in rats, P10

Structure-distribution-relationship approach leading to development of Tc-99m mebrofenin: improved cholescintigraphic agent, 423

**Technetium-99m microalbumin colloid**

Normal appearance and reproducibility of liver-spleen studies with Tc-99m SC and Tc-99m microalbumin colloid, 8

Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid, 971 (le)

Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid (reply), 972 (le)

**Technetium-99m microsphere**

Noninvasive radionuclide scintiphotographic technique for assessment of preserved renal allograft viability, P15

**Technetium-99m multimicrospheres**

Radionuclides in investigation of conjoined twins, 479

**Technetium-99m neogalactalbumin (Tc-NGA)**

Clinical experience with Tc-NGA: hepatic receptor-binding radiopharmaceutical, P79

**Technetium-99m NGA**

Hierarchical transfer of radiopharmaceutical information, P124

Identifiability of receptor-binding

radiopharmacokinetic model, P33

Tc-99m-galactosyl-neoglycoalbumin: in vitro and in vivo receptor properties, P24

**Technetium-99m oxine**

Synthesis and characterization of Tc-8-quinolinolates. Potential brain imaging agents, P128

**Technetium-99m pertechnetate**

Influence of scatter on quantitative determination of LVEF in gated cardiac scans, P103

**Technetium-99m pertechnetate**

Comparative cumulated activities for Tc-99m pertechnetate and Tc-99m DTPA determined throughout gestation from rat data, P95

Faster assessment of patients receiving unnecessary thyroid treatment, 119

New perspectives in localizing enlarged parathyroids by technetium-thallium subtraction scan, 438

Pertechnetate and stomach—continuing controversy, 633

Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma (reply), 642 (le)

**Technetium-99m PHMT**

Comparative evaluation of Tc-99m mebrofenin and Tc-99m pyridoxyl-5-methyltryptophan in rats, P10

**Technetium-99m phytate**

Clinical evaluation of SPECT on screening of small hepatocellular carcinoma, P29

**Technetium-99m PIPIDA**

Comparison of Tc-99m-PIPIDA with I-131 rose bengal in diagnosis of biliary atresia in neonate with direct reacting hyperbilirubinemia, P113

Unexpected breast uptake of Tc-99m PIPIDA, 861 (le)

**Technetium-99m PMT**

Hepatobiliary scintigraphy and function test with Tc-99m-N-pyridoxyl-5-methyltryptophan(Tc-99m-PMT), P100

**Technetium-99m PnAO**

Tc-99m-propyleneamine oxime: potential brain radiopharmaceutical, P128

Tetradentate amine oxime complex of Tc-99m, P10

**Technetium-99m polystyrene resins**

Measurement of gastric emptying time in outlet obstruction, P99

**Technetium-99m PPI**

Comparison of infarct identification with Tc-99m PPI and staining with triphenyl tetrazolium chloride, 492

Differential skeletal uptake of Tc-99m pyrophosphate and methylene diphosphonate in leukemia, 799

Tc-99m PPI in ischemic and infarcted dog myocardium in early stages of acute coronary occlusion: histochemical and tissue-counting comparisons, 485

**Technetium-99m proteins**

Re: concerning labeling of DTPA-coupled proteins with Tc-99m, 544 (le)

Re: concerning labeling of DTPA-coupled proteins with Tc-99m (reply), 545 (le)

**Technetium-99m PTP**

Tc-99m propane tetraphosphonate: new radiopharmaceutical for liver-scanning, P128

**Technetium-99m pyrophosphate**

Incidence, severity, and clinical course of right ventricular involvement after inferior MI: assessment by sequential <sup>99m</sup>Tc-pyrophosphate scans and gated blood pool scans, P68

Re: attenuation compensation in single-photon emission tomography: comparative evaluation (reply), 644 (le)

Scintigraphic evaluation of muscle damage following extreme exercise, 308

SPECT compared to planar Tc-99m pyrophosphate infarct-avid scintigraphy, P18

Transportation of Tc-99m PPI across the placenta in sheep, P126

Viability and necrosis of reperfused myocardium following thrombolysis using dual intracoronary injection of Tl-201 and Tc-99m-pyrophosphate, P4

**Technetium-99m red blood cells**

Acid-citrate-dextrose compared with heparin in the preparation of in vivo/in vitro Tc-99m RBCs, 383

Comparison of Tc-99m RBCs and Tc-99m SC in detection of gastrointestinal hemorrhage, P48

Detection of gastrointestinal bleeding with Tc-99m heat-damaged red blood cells, P99

Further validation of superiority of <sup>99m</sup>Tc RBCs method over <sup>99m</sup>Tc SC in detection and localization of gastrointestinal bleeding, P49

Intracellular distribution of radionuclides and turnover of Cr-51, In-111, and Tc-99m-labeled RBC in dogs, P26

New method for selective labeling of erythrocytes in whole blood with Tc-99m, P128

Noninvasive detection of coronary thrombi with In-111 platelets, 130

Optimum order harmonics of Fourier analysis in multigated blood-pool studies, P17

Pharmacologic alterations in Tc-99m binding by RBCs, 397

Re: determination of absolute LV volume from first-pass kinetics (reply), 971 (le)

Re: determination of LV volume from first-pass kinetics of labeled red cells, 969 (le)

Re: stability of stannous ion in stannous pyrophosphate kits (reply), 1081 (le)

Rupture of a spontaneous aortoduodenal fistula visualized with Tc-RBC scintigraphy, 332

Tc-99m in vitro red blood cell scintigraphy for detection and localization of gastrointestinal bleeding sites: correlation with arteriography, P99

Tc-99m RBC scanning in the differential diagnosis of focal liver lesions, P48

Tc-SC and Tc-RBC for detecting pulmonary bleeding: correlation with clinical, surgical and radiographic findings, P13

Value of selective spleen scintigraphy when liver/spleen image shows equivocal spleen defects, 559

Vascular intrahepatic defects in SPECT of the normal liver as defined by Tc-99m RBCs and sulfur colloid, P30



# **Technetium-99m resin**

Conveniently prepared Tc-99m resin for semisolid gastric emptying studies, 511

# **Technetium-99m sucralfate**

Tagged ulcer-avid material imaging (TUMI): potent new method for evaluation of peptic ulcer disease, P78

# **Technetium-99m sulfur colloid (SC)**

Comparison of in vitro and in vivo labeled chicken liver for evaluation of gastric emptying, P79

Comparison of radionuclide esophageal transit and esophageal manometry in gastroesophageal reflux disease, P79

Comparison of Tc-99m RBCs and Tc-99m SC in detection of gastrointestinal hemorrhage, P48

Correlative study of liquid phase radionuclide esophageal transit scintigraphy with radiographic, manometric and endoscopic parameters in patients with suspected esophagitis, P39

Diffuse lung uptake of Tc-99m sulfur colloid in infectious mononucleosis, 1083 (le)

Evaluation of 99mTc sulfur colloid (SC) hip scintigraphy in 20 symptomatic and 80 asymptomatic patients, P83

Failure of uptake of radiocolloid by femoral heads, 116

Functional asplenia in patients with chronic graft-versus-host disease, 1123

Further validation of superiority of 99mTc RBCs method over 99mTc SC in detection and localization of gastrointestinal bleeding, P49

Improvement of scintigraphic liver imaging by SPECT: review of 797 cases, P29

Method of Tc-99m tagging of cottage cheese for gastrointestinal motility studies, P99

Normal appearance and reproducibility of liver-spleen studies with Tc-99m SC and Tc-99m microalbumin colloid, 8

Radiation dose calculations for inhalation of Tc-99m sulfur colloid radioaerosol, 816

Radionuclide esophagogram (Tc-99m-SC) in experimental esophagitis: manometric and histopathologic correlations, P100

Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid, 971 (le)

Re: normal appearance and reproducibility of liver-spleen studies with Tc-99m sulfur colloid and Tc-99m microalbumin colloid (reply), 972 (le)

Scintigraphic demonstration of tracheo-esophageal fistula, 1151

Study of gastrointestinal opiate receptors: role of Mu receptor on gastric emptying, 689

Tc-SC and Tc-RBC for detecting pulmonary bleeding: correlation with clinical, surgical and radiographic findings, P13

# **Technetium-99m tin (Sn) colloid**

Lung uptake of Tc-99m-tin colloid in a patient with Lassa fever, 750 (le)

Radionuclides in investigation of conjoined twins, 479

Scintigraphic method for assessment of intraluminal volume and motility of isolated intestinal segments, 571

Uptake of Tc-99m di-isopropyl iminodiacetic acid by hepatocellular carcinoma, 1119

# **Thallium-201**

Bayesian analysis using Fourier transforms of Tl-201 scintiscans to predict the presence of CAD, P36

"Biological dosimetry" of radionuclides and radiation hazards, 160

Comparison of predischARGE exercise testing, Tl-201 scintigraphy and coronary angiography for identifying post-infarction patients at risk for future cardiac events, P36

Comparison of rotational tomography with planar imaging for Tl-201 stress myocardial scintigraphy, P18

Comprehensive method for 4-dimensional quantification of rotational Tl-201 myocardial tomograms, P34

Detecting application of Tl-201 chloride scintigraphy for preoperating localization of hyperfunctioning parathyroid nodule, P97

Detection and localisation of single vessel coronary disease: biplanar exercise radionuclide ventriculography or Tl-201 myocardial imaging?, P36

Detection and quantitation of remote MI by tomographic exercise-redistribution Tl-201 scintigraphy, P36

Detection of severe coronary heart disease with Tl-201: comparison of resting single photon emission tomography with invasive arteriography, 761

Determination of left ventricular mass using SPECT, P86

Diagnostic value of image processing in myocardial scintigraphy, 768

Early changes in thallium distribution: effect on scan quantitation, P46

Effects of dietary magnesium deficiency on Tl-201 kinetics and distribution in rat myocardium, 402

Evaluation of nontransmural MI by Tl-201 SPECT, P18

Functional imaging of Tl-201 redistribution, P45

Intracoronary Tl-201: short acquisition gated myocardial scintigraphy, P37

Intrathoracic pheochromocytomas concentrate Tl-201 chloride and I-131-MIBG, P54

Myocardial uptake of radioiodinated p-iodophenylbenzylidimethylammonium bromide: comparison to Tl-201, P43

New perspectives in localizing enlarged parathyroids by technetium-thallium subtraction scan, 438

New technique for direct comparison of myocardial perfusion, mechanical function, and necrosis by simultaneous display of registered and color-coded gated Tl-201, blood pool, and Tc-99m PPI images, P93

Noninvasive radionuclide scintiphotographic technique for assessment of preserved renal allograft viability, P15

Nonuniform washout of Tl-201 (within normal range): criterion for improved detection of single vessel CAD, P46

Normal limits for the quantitative analysis of stress Tl-201 myocardial scintigrams: multicenter validation, P45

Optimal count rates for reliable assessment of Tl-201 myocardial washout, P28

Pattern of myocardial perfusion at rest in patients with unstable angina pectoris, P68

Quantitation of Tl-201 myocardial perfusion defect size by SPECT, P29

Quantitative measurement of long term in vivo thallium distribution in human, P50

Quantitative Tl-201 imaging before and after transluminal coronary angioplasty, P37

Radiotoxicity of Tl-201 in mouse testes: inadequacy of conventional dosimetry, 145

Rapidly alternating gated cardiac blood pool and myocardial perfusion imaging using gold-195m and Th-201, P76

Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma, 641 (le)

Re: preoperative Tc-99m imaging of a substernal parathyroid adenoma (reply), 642 (le)

Scintigraphic detection of ventricular aneurysm with Tl-201, 34

Scintigraphic quantitation of myocardial ischemia, P19

Sources of variability in thallium circumferential profile curve analysis, P45

SPECTrum of Tl-201 imaging in CAD, 854

Statistical interpretation of quantitative Tl-201 myocardial perfusion scintigraphy, P28

Tc-99m BIN versus Tl(I)-201 in myocardial imaging, P127

Thallium myocardial uptake during acute cardiac allograft rejection, P29

Tl-201: experimental and theoretical radiobiological approach to dosimetry, 1164

Tl-201 kinetics shortly after termination of exercise: implications for quantitative analysis, P46

Tl-201 single photon emission tomography (SPECT), 273 (le)

Tl-201 single photon emission tomography (SPECT) (reply), 273 (le)

Tl-201 (SPECT) (reply), 274 (le)

Two-dose intravenous Tl-201 administration and quantitative analysis in IV thrombolysis in patients, P4

Ultra-short lived gold-195m: use in simultaneous evaluation of left ventricular function and myocardial perfusion with Tl-201, P76

Uncertain specific gamma-ray constant for Tl-201, 645 (le)

Values and limitations of segmental analysis of stress and redistribution Tl-201 ECT for location of CAD, P18

Viability and necrosis of reperfused myocardium following thrombolysis using dual intracoronary injection of Tl-201 and Tc-99m-pyrophosphate, P4

# **Thallium-202**

Quantitative measurement of long term in vivo thallium distribution in human, P50

# **Therapeutic nuclear medicine**

Absorbed dose calculations for radiolabeled tumor associated monoclonal antibodies, P95

Astatine-211: optimization for production of inorganic radiopharmaceuticals, P122

Dosimetry of I-131 labeled metaiodobenzylguanidine in treatment of malignant pheochromocytomas, P49

Measurement of blood deslanoside concentration using digoxin RIA kit for therapeutic drug monitoring, P115

Palliation of metastatic cancer to bone with strontium-89, P57

Pd-109 labeled monoclonal antibody to human high molecular weight melanoma associated antigen: potential agent for radiotherapy of human melanoma, P78

Radionuclide kinetics in MIRD dose calculations, 621

Re-186 HEDP: potential therapeutic bone agent, P125

Well-differentiated thyroid carcinoma: diagnosis, treatment and followup in patients with lung metastasis, P97

# **Thorax**

Scanning the lymph shed of melanoma of thorax using radiocolloids and macromolecules, P111

# **Threshold determination**

Threshold method of volume determination from tomographic reconstructions, P19

# **Thrombocytopenia**

In-111-platelet clearance, scintigraphy and distribution studies in experimental and clinical immune thrombocytopenia, P74

# **Thrombolysis**

Viability and necrosis of reperfused myocardium following thrombolysis using dual intracoronary injection of Tl-201 and Tc-99m-pyrophosphate, P4

# **Thrombosis**

Accumulation of In-111 labelled thrombocytes in left ventricular and aortic aneurysms, P73

Diagnostic accuracy of In-111 platelet scintigraphy in diagnosis of acute deep vein thrombosis, P60

Natural history of platelet deposition on dacron aortic bifurcation grafts in the first year following implantation in man, P73

Noninvasive detection of coronary thrombi with In-111 platelets, 130

Preparation and basic study of 67Ga-DE-fragment E(1,2) for the detection of thrombus, P123

Preparation and biodistribution of Ga-67 fibrinogen conjugated with water-soluble polymer containing deferoxamine: new approach to protein labeling, P124

Quantification of platelet turnover in normal animals with In-111-labeled platelets, P26

- Quantitative measurement of intravascular thrombus size with In-111 platelet scintigraphy, P73
- Re: uptake of Tc-99m MAA by the liver during a lung scan, 747 (le)
- Ticlopidine fails to inhibit platelet deposition on dacron prosthetic surfaces in man, P73
- Use of indium labeled platelets to monitor platelet deposition on vascular grafts, P60
- Thyroid**
- Accumulation of Tc(V)-99m dimercaptosuccinic acid in the medullary thyroid carcinoma, P66
- Applying radioactive eraser: I-131 to ablate normal thyroid tissue in patients from whom thyroid cancer has been resected, 743
- Clinical assessment of radioimmunoassay for free thyroxine using modified tracer, 498
- Clinical correlation of Amerlex free T<sub>4</sub> radioimmunoassay in various clinical conditions, P44
- Clinical evaluation of new solid-phase sequential RIA for free T<sub>4</sub>, P35
- Clinical value of FT<sub>3</sub> RIA, P96
- Comparison of reverse T<sub>3</sub> and T<sub>3</sub> resin uptake, P44
- Competition for protein binding raises free triiodothyronine levels in patients under thyroxine medication, P65
- Evaluation of free T<sub>4</sub> RIA for assessing thyroid function in nonthyroidal illness, P96
- Faster assessment of patients receiving unnecessary thyroid treatment, 119
- Hemigenesis of thyroid: clinical and radiological presentation in pediatric patient, 972 (le)
- Influence of measurement technique and I-124 contamination on I-123 thyroid uptake determinations, P104
- NMR imaging of the thyroid, P46
- Noncorrelation of thyroglobulin levels with 2 and 10 mCi I-131 scans in the follow-up of thyroid cancer patients, P97
- Primary hypothyroidism caused by TSH-receptors antibodies: diagnosis by thyroid uptake and radioreceptor assay of TSH, P65
- Quantitation of pinhole thyroid scans, P96
- Re: thyroid activity on Tc-99m MAA lung scans, 749 (le)
- Re: thyroid uptake measurements with I-123: problems and pitfalls, 642 (le)
- Re: thyroid uptake measurements with I-123: problems and pitfalls (reply), 643 (le)
- ROC-analysis of single or combined CEA and TPA determination in a wide spectrum of cancer patients, P112
- Serum 3,3'-Diiodothyronine (3,3'-T<sub>2</sub>, 3',5'-T<sub>2</sub> and 3,5-T<sub>2</sub> levels in normal and altered thyroid states, P65
- Thyroid function in hemodialysis patients, P65
- Thyroid iodine content measured by x-ray fluorescence in amiodarone-induced thyrotoxicosis, 582
- Thyroid remnant ablation: questionable pursuit of ill-defined goal, 659
- Toxic nodular goiter in cats: evaluation by nuclear medicine, CT, and NMR, P25
- Value of radioiodine therapy in the treatment of differentiated thyroid carcinoma, P112
- Well-differentiated thyroid carcinoma: diagnosis, treatment and followup in patients with lung metastasis, P97
- Thyroid stimulating hormone**
- Primary hypothyroidism caused by TSH-receptors antibodies: diagnosis by thyroid uptake and radioreceptor assay of TSH, P65
- Thyroid stimulating hormone (TSH)**
- Potential interfering antibody response in TSH assays, 173 (le)
- Thyrotoxicosis**
- Thyroid iodine content measured by x-ray fluorescence in amiodarone-induced thyrotoxicosis, 582
- Thyroxine (FT<sub>4</sub>)**
- Salivary thyroxine as estimate of free thyroxine, 700
- Thyroxine (L<sub>4</sub>)**
- Thyroid function in hemodialysis patients, P65
- Thyroxine (T<sub>4</sub>)**
- See also Free thyroxine (T<sub>4</sub>); Thyroid
- Clinical correlation of Amerlex free T<sub>4</sub> radioimmunoassay in various clinical conditions, P44
- Clinical evaluation of new solid-phase sequential RIA for free T<sub>4</sub>, P35
- Comparison of reverse T<sub>3</sub> and T<sub>3</sub> resin uptake, P44
- Competition for protein binding raises free triiodothyronine levels in patients under thyroxine medication, P65
- External detection of increases in  $\beta$ -adrenoceptor density in isolated perfused hearts with I-125 hydroxybenzylpindolol, P19
- Faster assessment of patients receiving unnecessary thyroid treatment, 119
- FT<sub>4</sub> estimates in patients with nonthyroidal illnesses, P44
- New derivative assay (Corning Medical) for estimation of FT<sub>4</sub>, P44
- Serum free thyroxine methods, comparative study, P44
- Time-activity curves**
- Evaluation of dynamic SPECT in the hepatobiliary scintigraphy, P99
- Optimum number of harmonics for fitting cardiac volume curves, P17
- Time-of-flight information**
- Image improvement and design optimization of time-of-flight PET, 52
- Time-of-flight positron emission tomography: status relative to conventional PET, 73
- Time-of-flight tomography**
- Preliminary results obtained with TOFPET I: whole-body time of flight PET, P11
- Tin-117m**
- Bone uptake of chemically diverse ligands labeled with Tin-117m in 2+ and 4+ oxidation states, P24
- Tomography**
- See also Emission computed tomography; Positron tomography; Seven-pin-hole collimator; Single-photon emission computed tomography (SPECT)
- Comprehensive method for 4-dimensional quantification of rotational TI-201 myocardial tomograms, P34
- ECT of heart using rotating slant-hole collimator and two orthogonal camera positions, P61
- Planar versus tomographic imaging with Tc-99m PPI for detection of acute MI in patients, P38
- Threshold method of volume determination from tomographic reconstructions, P19
- Topical magnetic resonance**
- In vivo <sup>31</sup>P NMR investigation of a human tumor, P109
- Toxicity**
- Transient toxicity of 2-deoxy-2-[<sup>18</sup>F]fluoro-D-glucose in mammalian cells, 1055
- Tracer dilution curves**
- Derivation of gamma-variate relationship for tracer dilution curves, 945
- Transferrin**
- In vitro transfer of Ga-67 from transferrin to ferritin, 608
- Role of transferrin on Ga-67 uptake by liver, P124
- Transit times**
- Direct measurement of extraction efficiencies and mean transit times of hepatobiliary agents in the perfused rat liver, P126
- Transmission computed tomography**
- Detection of masses in subphrenic space, P37
- Transplants, heart**
- Hemodynamics of heterotopic heart transplants, P91
- Transplants, liver**
- Functional imaging of liver transplants, P98
- Transplants, pancreas**
- Nuclear imaging in pancreas transplantation, P96
- Triiodothyronine (FT<sub>3</sub>)**
- Competition for protein binding raises free triiodothyronine levels in patients under thyroxine medication, P65
- Triphenyl tetrazolium chloride (TTC)**
- Comparison of infarct identification with Tc-99m PPI and staining with triphenyl tetrazolium chloride, 492
- Tubular transit index**
- Tc-99m DTPA transmit time as an index of proximal tubular function, P16
- Tumor**
- Accuracy of abnormal radioisotope bone scans in children with known disseminated malignancy in remission, P113
- Carcinoembryonic antigen kinetics and their implications for tumor imaging, P111
- Comparison of NMR imaging and x-ray CT in detecting brain tumors, P47
- Comparison of the transport of <sup>42</sup>K<sup>+</sup>, <sup>22</sup>Na<sup>+</sup>, <sup>201</sup>Tl<sup>+</sup> & <sup>99m</sup>Tc-DMPE using human RBCs, P28
- Development of small  $\gamma$ -ray imaging probes for in vivo use, P25
- Diagnosis of jugular paraganglioma by radionuclide angiography, 1005
- Effect of diethylstilbestrol therapy on radioisotopic bone scan findings in patients with metastatic carcinoma of the prostate, P57
- Effect of iodination on in vitro p<sup>97</sup> antigen-specific binding and in vivo tumor localization using monoclonal antibody fragments, P116
- Effect of tumor size, CEA production and secretion of the distribution of In-111 and I-125 monoclonal antitumor antibodies in animal models, P77
- Effect of tumor viability, antibody specificity and choice of determinant on In-111 anti-cea monoclonal antibody distribution in tumor-bearing mice, P110
- Effects of metastatic (13762) and non-metastatic (R3230AC) mammary adenocarcinoma on radiocolloid localization in regional lymph nodes in Fischer 344 rats, P40
- Estrogen receptor binding radiopharmaceuticals: II. Tissue distribution of 17 $\alpha$ -methyl estradiol in normal and tumor-bearing rats, 522
- Evaluating kinetic behavior of fluorodeoxyglucose in animal tumors, P110
- F(ab')<sub>2</sub> fragments of monoclonal antibodies in tumor bearing mice, P77
- Improved radioimaging and tumor localization with monoclonal F(ab')<sub>2</sub>, 316
- Inadvertent administration of antineoplastic agents to patients prior to Ga-67 injection: recognition of specific radionuclide distribution pattern and its diagnostic significance, P50
- In-111 chelate conjugates of transferrin for tumor imaging, P32
- Internal mammary lymphoscintigraphy in breast cancer, P40
- In vivo <sup>31</sup>P NMR investigation of a human tumor, P109
- Is immunoscintigraphy using radioiodinated monoclonal antibodies useful to cancer diagnosis?, P14
- Limitations in imaging of human tumor xenografts in nude mice with radiolabeled monoclonal antibodies, P77
- Perchlorate blocking for radioimmunodetection, 1081 (le)
- PET in study of soft tissue tumors, P119
- Radioimmunodetection of experimental syngeneic prostatic adenocarcinoma in rats, P102
- Radionuclide angiography as primary investigation in chemodectoma, 475
- Radionuclide liver perfusion scintigraphy with Tc-99m MAA contribution of computer data processing, P109
- Regional blood-flow measurement in rabbit soft-tissue tumor with positron imaging using C<sup>15</sup>O<sub>2</sub> steady-state and labeled microspheres, 1135
- Re: SPECT for assessment of hepatic lesions: its role in diagnostic work-up, 746 (le)
- Scintigraphy of primary bone neoplasia, P57

- Simultaneous measurement of regional glucose metabolism and blood flow in rat brain with implanted tumor, P107
- Tc-99m nucleotides as potential radiodiagnostic agents for tumor imaging, P126
- Tumor localization in rodents using radiolabeled monoclonal antibodies to isoferitin (FEV-212), P78
- Tumor targeting by monoclonal antibodies: specificity in nude mice bearing antigenically distinct tumors, P94
- Use of dynamic bone scanning in differential diagnosis of osteomyelitis, Paget's disease, and primary bone tumors, P83
- Use of scintillation probe in operative localization and resection of bone lesions, P84
- Use of specific antibody for rapid clearance of circulating blood background from radiolabeled tumor imaging proteins, P31
- Walker 256 tumor for studying bone imaging agents, P124
- Tumor antigen**
- Measurement of plasma P-97 levels in melanoma patients using a new radioassay, P35
- Tumor-seeking agents**
- Absorbed dose calculations for radiolabeled tumor associated monoclonal antibodies, P95
- Accumulation of Tc(V)-99m dimercaptosuccinic acid in the medullary thyroid carcinoma, P66
- Clinical evaluation of In-111 monoclonal anti-melanoma antibodies (111 in-anti mel) for tumor scanning, P15
- Comparison of In-111 labeled Fab and whole In-111 anti-CEA monoclonal antibody (MoAb) in normal mouse: human colon tumor models, P77
- Comparison of small vesicle and Ga-67 citrate uptake by EMT6 tumors, P125
- Comparison of the transport of  $^{42}\text{K}^+$ ,  $^{22}\text{Na}^+$ ,  $^{201}\text{Tl}^+$  &  $^{99\text{m}}\text{Tc}$ -DMPE using human RBCs, P28
- Comparison of three methods for DTPA conjugation to antibody, P31
- Development of Cu-67 chelate conjugated monoclonal antibodies for radioimmunotherapy, P30
- Distribution studies of In-111 macrophages in tumor-bearing rats, P111
- Effect of tumor viability, antibody specificity and choice of determinant on In-111 anti-cea monoclonal antibody distribution in tumor-bearing mice, P110
- Estrogen receptor binding radiopharmaceuticals: II. Tissue distribution of  $^{17\alpha}$ -methyl estradiol in normal and tumor-bearing rats, 522
- Evaluation of methods for preparation of radiolabeled monoclonal antibodies, P123
- F(ab')<sub>2</sub> fragments of monoclonal antibodies in tumor bearing mice, P77
- Human melanoma heterotransplants in nude mice: tumor-localization of radiolabeled  $\alpha$ -aminoisobutyric acid potential agent for imaging with PET, P110
- Imaging of melanoma with I-131 monoclonal antibodies, 123
- In-111 chelate conjugates of transferrin for tumor imaging, P32
- In vivo binding of In-111 labeled monoclonal antibody (MoAb) to a human high molecular weight melanoma-associated antigen (HMW-MAA), P78
- Is immunoscintigraphy using radioiodinated monoclonal antibodies useful to cancer diagnosis?, P14
- Limitations in imaging of human tumor xenografts in nude mice with radiolabeled monoclonal antibodies, P77
- Microcirculation of hepatic tumors studied by SPECT and intra-arterial Tc-99m MAA, P51
- Model for evaluation of tumor localization of labeled chemotherapeutic agents, P51
- New 99m-Tc(V)DMSA tumor imaging radiopharmaceuticals, with distinctive behavior from renal 99m-Tc-DMSA, P126
- Ovarian cancer: diagnosis using I-123 monoclonal antibody in comparison with surgical findings, P15
- Pd-109 labeled monoclonal antibody to human high molecular weight melanoma associated antigen: potential agent for radiotherapy of human melanoma, P78
- Properties of I-125 labeled 11- $\beta$ -methoxy-17- $\alpha$ -iodovinyl estradiol (IMOX), P49
- Radioimmunoassay and treatment of human colon cancer in nude mice using a monoclonal antibody, P110
- Radioimmunoassay of a transplantable human bladder cancer in a nude (athymic) mouse model, P110
- Radioimmunoassay of experimental syngeneic prostatic adenocarcinoma in rats, P102
- Sensitivity and specificity of *m*-iodobenzylguanidine scintigraphy for the detection of pheochromocytoma, P54
- Starch microspheres and quantitative hepatic arterial perfusion scintigraphy in cancer chemotherapy, P51
- Tc-99m GHA imaging in lung cancer and benign lung diseases, 997
- The Dunning R3327G prostatic adenocarcinoma tumor model: tumor-localization of radiolabeled thymidine, potential agent for imaging with PETT, P40
- Tumor-imaging potential of liposomes loaded with In-111-NTA: biodistribution in mice, 45
- Tumor imaging with monoclonal antibodies, 360
- Tumor targeting by monoclonal antibodies: specificity in nude mice bearing antigenically distinct tumors, P94
- Use of specific antibody for rapid clearance of circulating blood background from radiolabeled tumor imaging proteins, P31
- Walker 256 tumor for studying bone imaging agents, P124
- Xc-133 tumor blood flow and Tc-99m-MAA perfusion scintigraphy in head and neck tumors, P112
- Tungsten-178**
- Biological fate of W-178 and Ta-178, P122
- Ulcer**
- Tagged ulcer-avid material imaging (TUMI): potent new method for evaluation of peptic ulcer disease, P78
- Uniformity correction**
- Effects of improper camera operation on ejection fraction measurements, P103
- Urolithiasis**
- Clinical studies of renal function during colic attack induced by urolithiasis, P129
- Valvular regurgitant index**
- Radionuclide techniques for valvular regurgitant index, 1199 (le)
- Radionuclide techniques for valvular regurgitant index (reply), 1200 (le)
- Valvular regurgitation**
- Fourier amplitude ratio: new way to assess valvular regurgitation, 204
- Vancomycin**
- Therapeutic drug monitoring by RIA plasma vancomycin in intensive care patients, P115
- Vascular imaging**
- External imaging of human atherosclerosis, 154
- Venography**
- Re: uptake of Tc-99m MAA by the liver during a lung scan, 747 (le)
- Re: uptake of Tc-99m MAA by the liver during a lung scan (reply), 747 (le)
- Uptake of Tc-99m MAA by liver during thromboscintigram/lung scan, 36
- Ventilation-perfusion studies**
- Ventilation-perfusion lung scanning in pulmonary hypertension, P13
- Ventilation-perfusion (V/Q) lung studies: utilization by referring clinicians, P13
- Ventilation studies**
- Comparison between sub-micronic aerosol and Xe-127 for ventilation images, P113
- Dependence of distribution of short-lived tracers on decay. Noncompartmental approach, 543 (le)
- Dependence of distribution of short-lived tracers on decay. Noncompartmental approach (reply), 543 (le)
- Patterns of regional ventilation in life-long smokers and nonsmokers using Kr-81m: comparison with tests of total lung function, P13
- Pulmonary perfusion "without ventilation", 1149
- Ventricular filling rate**
- Contribution of atrial contraction to left ventricular filling in patients with CAD, P28
- Ventricular function**
- Radionuclide evaluation of ventricular function in patients with L-transposition of great arteries, P87
- Ventricular volume**
- Left ventricular volumes from gated radionuclide ventriculograms: attenuation correction in female and male patients, P27
- Reliability of radionuclide absolute left ventricular volume measurements, P27
- Ventriculography**
- Clinical prediction of left ventricular ejection fraction (LVEF), P90
- Clinical validation of totally automated method for assessing regional left ventricular function from rest/exercise radionuclide ventriculography, P53
- Do normalized filling rates measured by radionuclide ventriculography actually represent ventricular filling rates?, P89
- Gated blood-pool studies of cardiac function in rat and marmoset, 728
- Gold-195m, ultra-short-lived generator-produced radionuclide: clinical application in sequential first-pass ventriculography, 139
- Mitral stenosis: right and left ventricular volume assessed by radionuclide ventriculography, P27
- Multiple gated SPECT ventriculography, P91
- Multiwire proportional counter gamma camera and Ta-178 radionuclide, P24
- Paradoxical improvement of resting myocardial wall motion abnormalities during exercise, P87
- Pinhole radionuclide ventriculography in small infants, P32
- Radionuclide evaluation of left-ventricular function in chronic Chagas' cardiomyopathy, 563
- Videodensitometry**
- Quantitative autoradiography with radiopharmaceuticals, part 1: digital film-analysis system by videodensitometry, 231
- Video signals**
- Modified composite video signal generator for gamma 11 computing system, 838
- Vitamin B12**
- Mismatched serum vitamin B-12 and Schilling test results: incidence and possible causes, P114
- In vitro nuclear medicine**
- Immunoassay—is there future role for nuclear medicine?, 952
- Wall motion studies**
- Intracoronary Tl-201: short acquisition gated myocardial scintigraphy, P37
- Maintained LV exercise response and regional wall motion abnormalities in patients on doxorubicin, P54
- Whole-body determination**
- Correction of attenuation in whole-body determination of Co-57 B<sub>12</sub> absorption, 949
- Whole-body distribution**
- Effect of carrier amphetamine and KI on the biodistribution of iodoamphetamine, P118
- Whole-body retention test**
- Relative distribution of diphosphonate between bone and soft tissue at 4 and 24 hr, 208
- Wilson's disease**
- Cerebral glucose utilization patterns in Wilson's disease, P21
- Wolff-Parkinson-White syndrome**
- Phase analysis in patients with Wolff-Parkinson-White syndrome with surgically proved accessory conduction pathways, P27

**Xenon-127**

Comparison between sub-micronic aerosol and Xe-127 for ventilation images, P113

**Xenon-133**

Cerebral blood-flow tomography: Xe-133 compared with isopropyl-amphetamine-I-123, 17

Detection of compartmental slippage in noninvasive rCBF measurements, 1188

Experience with gamma camera measurement of regional cerebral blood flow, P108

Measurement of myocardial blood flow in man with Xe-133 during dipyridamole induced coronary vasodilation, P75

Pulmonary perfusion "without ventilation", 1149

Significance of collateral circulation on local myocardial perfusion in canine heart model: implications for investigation of myocardial perfusion imaging agents, P85

Single-photon tomography of regional brain blood flow in patients with arteriovenous malformations, P105

Sterile Xe-133 in saline for tissue perfusion studies, 1070

Ventilation-perfusion lung scanning in pulmonary hypertension, P13

Xe-133 DSPECT in unilateral cerebrovascular disease. Comparative study to transmission CT and x-ray angiography, P6

**X-ray fluorescence**

Thyroid iodine content measured by x-ray fluorescence in amiodarone-induced thyrotoxicosis, 582

**Zinc-62**

Production of Zn-62 and development of Zn-62/Cu-62 generator system, P124

Zn-EDDA, new pancreatic agent for functional studies, P123

**Zinc-65 EDDA**

Zn-EDDA, new pancreatic agent for functional studies, P123

## STATEMENT OF OWNERSHIP, MANAGEMENT, AND CIRCULATION

1. Title of Publication: *The Journal of Nuclear Medicine*.
- 1A. Publication Number: 281560.
2. Date of filing: Sept. 29, 1983
3. Frequency of issue: Monthly.
- 3A. Number of issues published annually: Twelve.
- 3B. Annual subscription price: \$90 in U.S.A.; \$100 Mexico/Canada; \$130 Foreign.
4. Location of known office of publication: 475 Park Ave. South, New York, NY 10016.
5. Location of the headquarters or general business offices of the publishers: 475 Park Ave. South, New York, NY 10016.
6. Names and addresses of publisher, editor, and managing editor: Publisher—The Society of Nuclear Medicine, Inc., 475 Park Ave. South, New York, NY 10016; Editor: F.H. DeLand, M.D., University of Kentucky Medical Center, Medical Annex 5, Lexington, KY 40506; Managing Editor, L. Kosden, The Society of Nuclear Medicine, Inc., 475 Park Ave. South, New York, NY 10016.
7. Owner: The Society of Nuclear Medicine, Inc., 475 Park Ave. South, New York, NY 10016. The Society of Nuclear Medicine, Inc., is a nonprofit corporation; there are no stockholders.
8. Known bondholders, mortgages, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities: None.
9. The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes have not changed during the preceding 12 months.
10. Extent and nature of circulation: (A) Total number of copies printed; average during preceding 12 months—14,425; actual copies printed in September 1983—15,350; (B) Paid circulation: Sales through dealers and carriers, street vendors, and counter sales—none. Mail subscription: average—12,492; actual copies in September 1983—13,282; (C) Total paid circulation: average—12,492; actual copies in September 1983—13,282; (D) Free distribution by mail, carrier or other means: samples, complimentary, and other free copies; average—135; actual copies in September 1983—98 (E) Total distribution: average—12,627; actual copies in September 1983—13,380; (F) Copies not distributed; office use, left over, unaccounted for, spoiled after printing; average—1,798; actual copies in September 1983—1,970. Returns from news agents—none. (G) Total: average—14,425; actual copies in September 1983—15,350.
11. I certify that the statements made by me are correct and complete; (signed) Laura Kosden, Publications Director.
12. In accordance with the provisions of the statute, I hereby request permission to mail the publication named in item 1 at the phased postage rates presently authorized by 39 U.S.C. 3626: (signed) Laura Kosden, Publications Director.

## The Journal of Nuclear Medicine INFORMATION FOR AUTHORS

**Editorial Policy.** *The Journal of Nuclear Medicine* publishes several types of original articles: full length articles, concise communications, preliminary notes, case reports, technical notes, letters to the editor, editorials, and solicited articles of general medical interest. It is understood that manuscripts submitted for consideration are original, including illustrations and tables, and that the material submitted is not under consideration by another publication.

**Copyright.** In compliance with the copyright Act of 1976, effective January 1, 1978, the following written statement must accompany all submissions to be considered for publication. "Upon acceptance by the *Journal of Nuclear Medicine* all copyright ownership of the article (complete title of the article in this space), is transferred to the Society of Nuclear Medicine. On behalf of any and all coauthors I accept the responsibility for release of any part or all of the material contained within the article noted above. The undersigned stipulates that the material submitted to *The Journal of Nuclear Medicine* is original and has not been submitted to another publication for concurrent consideration." Copyright requirement does not apply to work prepared by United States government employee(s) as part of their official duties.

**Review Procedure.** Submitted manuscripts are reviewed for content on the basis of originality, significance, adequacy of documentation, reader interest, and composition. All manuscripts are reviewed by two referees and the editorial staff. All accepted manuscripts are subject to editorial revisions for scientific accuracy and for clarity in the office of the editor.

**Manuscript Format—General Information—**An original and two copies of the manuscript with two sets of *unmounted* illustrations (glossies, preferably 5" × 7") should be sent with a transmittal letter to the Editor.

1. Every typewritten page must be double-spaced, including title page, abstract, text, references, legends, acknowledgments, and footnotes.
2. There should be a 2-in. margin on all sides of typewritten pages.
3. Reference numbers should be underlined and in parentheses in the text.
4. Paragraphs should begin with an indentation of at least five spaces.
5. All pages should be numbered at the top right-hand side *without* names of the author(s) or title of the article.
6. Handwritten changes are not acceptable.
7. Papers must be written in English.
8. References in the text should not be made to institutions or locales except when mention of the institution, locale, or facility is germane to that particular article.
9. Generic names should be used. Manufacturers of instruments or radiopharmaceuticals should not be named in the manuscript unless their inclusion is absolutely essential to the content. When necessary, however, manufacturers should be identified by footnotes. Consecutive order of footnote symbols is: \*, †, ‡.

**Title Page.** The title should be as short as possible, with a maximum of 72 characters, including spaces. The first names and degrees of all authors, the name and address of the department and institution where the work was done, sources of support (if applicable), and name and address of author responsible for correspondence and reprints should be included on the title page.

**Abstract.** Abstracts must be limited to 150 words or less, typed on a separate page. Three key words should be sent with proofs for indexing.

**References.** References must be typed double space on a separate sheet and numbered consecutively as they appear in the text. References included in a table or illustration are also numbered sequentially with those in the text. The Journal uses the *Index Medicus* style for references. When more than three authors are listed, the additional authors are listed as "et al." Journal names are abbreviated according to the *List of Journals Indexed in Index Medicus*.

Sample references are:

1. Bardy A, Fouye H, Gobin R, et al: Technetium-99m labeling by means of stannous pyrophosphate: Application to bleomycin and red blood cells. *J Nucl Med* 16: 435-437, 1975
2. Berne E: *Principles of Group Treatment*, New York, Oxford University Press, 1966, pp 26-28
3. Brownell GL: Theory of radioisotope scanning. In *Medical Radioisotope Scanning*, vol 1. Vienna, IAEA, 1964, pp 1-10
4. Cloutier RJ, Edwards CL, Snyder WS, eds: *Medical Radionuclides: Radiation Dose and Effects*, AEC Symposium Series 20, CONF-601212, Oak Ridge, TN, 1970
5. Pollock, BE: Effect of carbon arc radiation on cardiac output in dogs, PhD Thesis, Tulane University Medical School, New Orleans, 1953
6. Snyder WS, Ford MR: A dosimetric study for the administration of Neohydrin labeled with <sup>203</sup>Hg and <sup>197</sup>Hg. In *Health Physics Division Annual Progress Report*, Oak Ridge, TN, ORNL 4168, July 31, 1967, pp 267-273
7. Brown HS, Gray CT: New traces in old spaces. *J Nucl Med*: in press

Numbered references to personal communications, unpublished data, manuscripts in preparation, or manuscripts submitted for publication are not acceptable.

**Tables.** A table is a condensation of related data or facts arranged in columns. Tables should be self-explanatory and should supplement, not duplicate, the text. Each table must be referred to in numerical order in the text. Each table must be typed on a separate sheet of paper; tables should be numbered consecutively with arabic numerals and have titles centered in capital letters. They are placed after the references in the manuscripts. The titles should be descriptive and as brief as possible. (Explanatory material should be included in footnotes or the text.) Place horizontal lines above the title, under the title, under column headings, and at the end of the table. Omit all vertical rules.

**Illustrations.** Since imaging is one of the major aspects of nuclear medicine, the selection of high-quality illustrations is of paramount importance. Arrows, lettering, and numbers added to figures must be of professional quality. Original line graphs are preferred for optimal reproduction. Figures of inferior quality or damaged figures as well as those poorly designed or badly lettered will be returned to the author for correction, replacement, or deletion, if indicated. A legend page with descriptive paragraphs for each figure, typed in numerical order with the abbreviation "FIG." preceding each arabic number must be included. Every figure should be identified clearly in the text in numerical order. If the manuscript includes illustrations that have been published previously, permission to reproduce them must be obtained by the author from both the original author and from the original publisher and sent to *The Journal of Nuclear Medicine*. In the submitted manuscript the original publication must be cited in the references, and the following must appear in the figure legend: (reprinted by permission of Ref. X).

**Units and Abbreviations.** Nomenclature, units, and abbreviations should conform to IUPAC recommendations and Systems Internationale (SI). Chemical formulae follow the recommendations of the American Chemical Society.

Manuscripts should be submitted to: Frank H. DeLand, M.D., Editor, *The Journal of Nuclear Medicine*, University of Kentucky Medical Center, Medical Annex #5, Lexington, KY 40506.

## INDEX TO ADVERTISERS

CADEMA MEDICAL PRODUCTS	
Middletown, NY	37A
CAPINTEC, INC.	
Ramsey, NJ	25A
CLINICAL ASSAYS	
Cambridge, MA	6A
DATA SPECTRUM CORPORATION	
Chapel Hill, NC	47A, IBC
DIVERSIFIED DIAGNOSTIC PRODUCTS	
Houston, TX	3A
EASTMAN KODAK COMPANY	
Rochester, NY	20A, 21A
EDC/MEDICAL IMAGING CORP.	
Lowell, MA	52A
ELSCINT, LTD.	
Haifa, Israel	22A, 23A
G.E. MEDICAL SYSTEMS	
Milwaukee, WI	18A, 19A
INTERNATIONAL CIS	
Cedex, France	17A, 39A
INTERNATIONAL MEDICAL INDUSTRIES	
Watertown, MA	45A, 47A
LUNAR RADIATION CORP.	
Madison, WI	29A
MEDICAL DATA ASSOCIATION, INC.	
Richardson, TX	40A
MEDICAL ELECTRONICS, INC.	
Boston, MA	49A
MEDI-PHYSICS, INC.	
Emeryville, CA	IFC, 1A, 8A, BC
MEDTRONIC/MEDICAL DATA SYSTEMS	
Ann Arbor, MI	38A
NOVO MEDICAL	
Wilton, CT	16A
NUCLEAR ASSOCIATES/VICTOREEN	
Carle Place, NY	24A
NUCLEAR DATA MEDICAL PRODUCTS	
Ann Arbor, MI	5A, 51A
NUCLEAR PHARMACY	
Albuquerque, NM	10A
RADX CORPORATION	
Houston, TX	27A
SCINTRONIX, LTD.	
Schaumburg, IL	14A, 15A
SIEMENS CORPORATION	
Iselin, NJ	2A
SNM PLACEMENT	
New York, NY	41A, 42A, 43A
SOPHA DEVELOPMENT, INC.	
Atlanta, GA	31A, 32A, 33A, 34A, 35A, 36A
TECHNICARE	
Solon, OH	12A, 13A