

EDITORIAL

John H. Lawrence, M.D. Receives the Enrico Fermi Award

Frank H. DeLand 555

CLINICAL SCIENCES

DIAGNOSTIC NUCLEAR MEDICINE

Platelet Accumulation in Carotid Atherosclerotic Lesions: Semiquantitative Analysis with Indium-111 Platelets and Technetium-99m Human Serum Albumin

Yoshinari Isaka, Kazufumi Kimura, Shotaro Yoneda, Masahito Kusunoki Hideki Etani, Osamu Uyama, Yoshiyasu Tsuda, and Hiroshi Abe 556

An Automated Quantitative Analysis of Ventilation-Perfusion Lung Scintigrams

Graham H. Burton, Philip Vernon, and W. Anthony Seed 564

The Relationship of Gastroesophageal Reflux and Gastric Emptying in Infants and Children: Concise Communication

Paul R. Rosen and S. Treves 571

The Spectrum of Gallium-67 Renal Activity in Patients with No Evidence of Renal Disease

Julio E. Garcia, Douglas Van Nostrand, William H. Howard, III, and Ralph W. Kyle 575

INVESTIGATIVE NUCLEAR MEDICINE

Thallium Scintigraphy in Experimental Toxic Pulmonary Edema: Relationship to extravascular Pulmonary Fluid

Robert A. Slutsky and Charles B. Higgins 581

BASIC SCIENCES

RADIOCHEMISTRY AND RADIOPHARMACEUTICALS

Sequential Imaging of Indium-111-Labeled Monoclonal Antibody in Human Mammary Tumors Hosted in Nude Mice

Ban An Khaw, H. William Strauss, Susan L. Cahill, Howard R. Soule, Thomas Edgington, and John Cooney 592

PRELIMINARY NOTE

Use of a Paramagnetic Substance, Colloidal Manganese Sulfide, as an NMR Contrast Material in Rats

Henry M. Chilton, Susan C. Jackels, William H. Hinson, and Kenneth E. Ekstrand 604

TECHNICAL NOTES

The Walsh-Hadamard Transform: An Alternative Means of Obtaining Phase and Amplitude Maps

Raimondo Tallia, Piero Morello, and Giancarlo Castellano 608

| | |
|---|-----|
| Computation of Glomerular Filtration Rate with Tc-99m DTPA: An In-House Computer Program Gary F. Gates | 613 |
| ADJUNCTIVE MEDICAL KNOWLEDGE | |
| The Role of Nuclear Medicine in Clinical Urology and Nephrology M. Donald Blafox, Eugene Fine, Hyo-Bok Lee, and Stephen Scharf | 619 |
| TEACHING EDITORIAL | |
| In-111 Platelet Scintigraphy: Carotid Atherosclerosis and Stroke William J. Powers | 626 |
| HISTORY | |
| Artificial Production of a New Kind of Radio-Element F. Joliet and I. Curie | 630 |
| LETTERS TO THE EDITOR | |
| Noncircular Orbits in SPECT Karin Knešarek | 632 |
| Reply Stephen C. Gottschalk, David Salem, Chun Bin Lim, and Robert H. Wake | 632 |
| The Effect of Collimators on the Center of Rotation in SPECT Thomas J. Farrell, Trevor D. Craddock, and Robert A. Chamberlain | |
| Use of a Copper Filter for Dose-Calibrator Measurements of Nuclides Emitting K X-Rays K. S. Wiarda | 632 |
| ADDITIONS AND ERRATA | |
| Spect Resolution and Uniformity Improvements by Noncircular Orbit Stephen C. Gottschalk, David Salem, Chun Bin Lim, and Robert H. Wake | 634 |
| BOOK REVIEWS | |
| Computed Emission Tomography Reviewed by Bernard Oppenheim | 635 |
| CRC Handbook of Chemistry and Physics, 64th Edition Reviewed by Frank H. DeLand | 635 |
| The Physics of Radiology Reviewed by James A. Sorenson | 635 |
| Nuclear Medicine In Vitro, (Second Edition) Reviewed by George Klee | 637 |

| | |
|---|----------------------|
| Progress in Radio-Oncology II Reviewed by Richard G. Evans | 637 |
| Lasers and Optical Radiation (Environmental Health Criteria 23) Reviewed by Michael W. Vannier | 637 |
| ABSTRACTS OF CURRENT LITERATURE | 639 |
| INFORMATION FOR AUTHORS | 645 |
| CALENDAR | 646, 648 |
| PLACEMENT | 73A, 74A, 75A |

Front Cover: Charles P. Wilson, one of the Founders of the Society of Nuclear Medicine. Practice of Internal Medicine and Rheumatology; retired.

PROCEEDINGS OF THE 31st ANNUAL MEETING

| | |
|---|------------------|
| SCIENTIFIC COMMITTEE | P1 |
| MATRIX OF SCIENTIFIC SESSIONS | P2-P3 |
| ABSTRACTS FOR SCIENTIFIC PROGRAM | P4-P76 |
| ABSTRACTS FOR POSTER SESSIONS | P77-P130 |
| CATEGORICAL SEMINARS | P131-P132 |
| CONTINUING EDUCATION | P133-P137 |
| AUTHOR INDEX OF ABSTRACTS | P138-P146 |
| SCIENTIFIC EXHIBITS | P147-P148 |