

Supplemental Table 1. SPECT and PET data

SCCNij 202		<sup>111</sup> In-cetuximab-F(ab') <sub>2</sub>			<sup>18</sup> F-FDG
		Tumor mean	Tumor max	Liver mean	SUVmax
-7 d	10 Gy	1.05E-07	1.29E-06	3.23E-07	1.28
	Control	1.40E-07	8.22E-07	2.00E-07	1.24
1 d	10 Gy	7.20E-08	9.43E-07	1.95E-07	1.96
	Control	7.73E-08	9.16E-07	2.26E-07	1.31
7 d	10 Gy	1.51E-07	1.71E-06	2.94E-07	1.34
	Control	9.16E-08	1.05E-06	2.61E-07	1.25
14 d	10 Gy	1.27E-07	1.60E-06	2.44E-07	1.13
	Control	9.14E-08	1.10E-06	1.86E-07	1.05
SCCNij 167					
-7 d	10 Gy	2.80E-08	4.46E-07	2.31E-07	3.36
	Control	1.74E-08	4.29E-07	2.05E-07	2.11
1 d	10 Gy	2.97E-08	5.83E-07	2.98E-07	2.24
	Control	6.42E-08	4.77E-07	1.75E-07	2.50
7 d	10 Gy	3.98E-08	4.71E-07	2.63E-07	2.32
	Control	4.11E-08	3.15E-07	1.18E-07	2.47
14 d	10 Gy	3.02E-08	5.18E-07	2.15E-07	3.01
	Control	5.12E-08	3.65E-07	1.02E-07	2.35