

Table1 Raw data and descriptive statistics

Levels of cleaved PARP (absorbance at 450 nm in 100 mg protein)

<u>Bone marrow</u>					<u>Lung</u>					<u>Testis</u>								
Radiation ID	Animal ID	Levels of cleaved	Median dose	Mean	S.E.	Radiation dose	Animal ID	Levels of cleaved (Gy)	Median PARP (Gy)	Mean	S.E.	Radiation dose (Gy)	Animal ID	Levels of cleaved PARP	Mean	S.E.	dose	
0	1	0.10215				0	1	0.10215				0	1	0.0745				
	2	0.09515					2	0.09015						2	0.07825			
	3	0.1044					3	0.1044						3	0.06545			
	4	0.11375					4	0.11375						4	0.10535			
	5	0.11275					5	0.09515						5	0.1033			
			0.1044	0.1056	0.003				0.10215	0.1011	0.004				0.0783	0.0854	0.008	
0.05	6	0.10315				0.05	6	0.10315				0.05	6	0.07495				
	7	0.08455					7	0.08955						7	0.09935			
	8	0.10245					8	0.10245						8	0.082			
	9	0.1091					9	0.10315						9	0.10075			
	10	0.08905					10	0.08905						10	0.10685			
			0.10245	0.0977	0.005				0.10245	0.0975	0.0033				0.0994	0.0928	0.006	
0.1	11	0.10175				0.1	11	0.10175				0.1	11	0.1113				
	12	0.1098					12	0.1098						12	0.08585			
	13	0.1067					13	0.1067						13	0.0969			
	14	0.13085					14	0.1284						14	0.1043			
	15	0.13325					15	0.13325						15	0.10215			
			0.1098	0.1165	0.006				0.1098	0.116	0.0062				0.1022	0.1001	0.004	
1	16	0.1159				1	16	0.1166				1	16	0.10655				
	17	0.11065					17	0.11065						17	0.1101			
	18	0.1302					18	0.1308						18	0.09935			
	19	0.13275					19	0.13275						19	0.09715			

20 0.1308
0.1302 0.1241 0.005

20 0.1308
0.1308 0.1243 0.0045

20 0.09185
0.0994 0.101 0.003

Levels of activated NF-κB (absorbance at 450 nm in 100 mg protein)

Bone marrow

Lung

Testis

Radiation dose (Gy)	Animal ID	Levels of activated NF-κB	Median	Mean	S.E.	Mea n	S.E.

Radiation dose (Gy)	Animal ID	Levels of activated NF-κB	Median	Mean	S.E.

0	1	0.75375	0 Gy	1	0.44625	0	1	0.50375
	2	0.3825		2	0.61125		2	0.53
	3	0.3775		3	0.6875		3	0.50375
	4	0.60875		4	0.60125		4	0.32625
	5	0.2725		5	0.795		5	0.57
								0.5038 0.4868 0.042
0.05	6	0.56625	0.05 Gy	6	0.44875	0.05	6	0.34625
	7	0.50625		7	0.54375		7	0.2
	8	0.5175		8	0.56125		8	0.325
	9	0.67625		9	0.59		9	0.35375
	10	0.735		10	0.76625		10	0.6325
								0.3463 0.3715 0.071
0.1	11	1.58	0.1	11	0.68125	0.1	11	1.08375
	12	1.56125		12	1.1		12	0.8725
	13	1.75		13	1.0275		13	0.94125
	14	1.9825		14	1.08		14	0.75625
	15	2.05875		15	1.17375		15	1.1
								0.9413 0.9508 0.065
1.0	16	2.46375	1.0	16	1.0825	1.0	16	1.055
	17	2.38875		17	1.245		17	0.98625
	18	2.6125		18	1.265		18	1.01625
	19	2.70625		19	1.18		19	0.89625
	20	3.01375		20	1.3975		20	1.305
								1.0163 1.0518 0.069

Levels of TNF- α (in 100 mg protein)

Bone marrow

Lung

Testis

Radiation Levels of dose (Gy)	Animal ID	Median TNF- α	Me an	S.E.	Radiation Levels of dose	Animal ID	Median TNF- α	Mea n	S.E.	Radiation Levels of dose (Gy)	Animal ID	Median TNF- α	Mean	S.E.
0	1	3.248031	3.42188	3.4396	0.1075	0	1	0.92127	1.00065	1.0158	0.0329	0	1	0.896486
	2	3.561126					2	1.00065					2	1.088909
	3	3.779808					3	0.9786					3	1.148879
	4	3.421875					4	1.10129					4	0.888805
	5	3.187356					5	1.07719					5	0.99663
0.9966 1.0039 0.052														
0.05	6	3.561222	3.56122	3.5129	0.0865	0.05	6	1.10407	1.10407	1.0647	0.0607	0.05	6	0.986924
	7	3.558649					7	1.17062					7	1.175316
	8	3.584254					8	1.12553					8	0.983863
	9	3.178789					9	0.82755					9	1.151918
	10	3.681429					10	1.09568					10	1.063526
1.0635 1.0723 0.04														
0.1	11	5.188774	4.69778	4.4925	0.3656	0.1	11	0.97262	1.2287	1.3051	0.0837	0.1	11	1.655264
	12	5.309698					12	1.09118					12	1.547562
	13	4.697782					13	1.2287					13	1.589497
	14	3.660192					14	1.64134					14	1.548698
	15	3.605889					15	1.59189					15	1.472571
1.5487 1.5627 0.03														
1.0	16	4.639923	4.6871	4.7694	0.1427	1.0	16	1.50867	1.51642	1.4674	0.0558	1.0	16	1.717194
	17	4.926402					17	1.5292					17	1.663149
	18	5.219689					18	1.53782					18	1.5021
	19	4.687104					19	1.51642					19	1.542832
	20	4.373916					20	1.245					20	1.465178
1.5428 1.5781 0.048														

Levels of IL-1 β (in 100 μ g protein)

Bone marrow

Radiation dose (Gy)	Animal ID	Levels of IL-1 β	Median	S.E.
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Lung

Radiation dose (Gy)	Animal ID	Levels of IL-1 β	Median	Mean	S.E.
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Testis

Radiation dose (Gy)	Animal ID	Levels of IL-1 β	Median	Mean	S.E.
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0	1	18.16848	0	1	5.696	0	1	7.436252						
	2	17.56352	2	5.465	2	9.359853	3	20.81019	3	6.678	3	9.7693	4	15.52928
						4	5.111	4	7.555218					

	5	18.04335		5	5.046		5	8.320809				
		18.0433	18.023	0.843		5.465	5.5992	0.2947				
							8.3208	8.4883	0.469			
0.05	6	17.4162		0.05	6	4.567		0.05	6	9.438469		
	7	18.60992			7	5.393			7	8.265636		
	8	18.41502			8	6.364			8	8.122265		
	9	23.12425			9	6.541			9	8.560396		
	10	15.18769			10	5.068			10	8.712832		
		18.415	18.551	1.295		5.393	5.5866	0.3783		8.5604	8.6199	0.23
0.1	11	20.50616		0.1	11	8.287		0.1	11	10.79046		
	12	22.24324			12	6.722			12	13.74511		
	13	21.57652			13	8.304			13	13.03131		
	14	21.15966			14	10.416			14	10.38243		
	15	23.67021			15	6.865			15	11.49638		
		21.5765	21.831	0.54		8.287	8.1188	0.6656		11.496	11.889	0.647
1.0	16	28.23766		1.0	16	9.785		1.0	16	11.67602		
	17	36.91976			17	7.754			17	11.93812		
	18	32.54425			18	10.066			18	14.03133		
	19	26.78788			19	8.227			19	10.74961		
	20	27.27389			20	9.164			20	13.33751		
		28.2377	30.353	1.931		9.164	8.9992	0.4433		11.938	12.347	0.591

Levels of IL-6 (in 100 mg protein)

Bone marrow

Radiation dose (Gy)	Animal ID	Levels of Median IL-6	Mean	S.E.
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Lung

Radiation dose (Gy)	Animal ID	Levels of Median IL-6	Mean	S.E.
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Testis

Radiation dose (Gy)	Animal ID	Levels of Median IL-6	Mean	S.E.
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0	1	.37956		
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0	1	1.036801
	2	1.066063 3
		1.049396 4
		1.038786
5		1.262299
		1.0494 1.0907 0.043

2	0.43835 3
	0.40507 4
	0.29298
5	0.39317
	0.39317 0.3818 0.0243

0	1	0.31604
	2	0.16148
	3	0.217018
	4	0.31604
	5	0.16148
		0.21702 0.23151 0.0452

0.05	6	1.177584
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7	0.961952
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0.05	6	0.41545
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7	0.41613
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0.05	6	0.192116
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7	0.148481
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	8	1.276626		8	0.44879		8	0.21776	
	9	1.083655		9	0.31996		9	0.305549	
	10	1.147111		10	0.38315		10	0.21776	
		1.14711 1.1294 0.052			0.41545 0.3967 0.0218			0.21776	
0.1	11	1.433885		0.1	11	0.72643	0.1	11	0.403751
	12	1.326063			12	0.91235		12	0.410299
	13	1.472685			13	0.8966		13	0.283828
	14	1.410591			14	1.0568		14	0.394667
	15	1.230746			15	0.67273		15	0.394667
		1.41059 1.3748 0.043			0.8966 0.853 0.0691			0.39467 0.37314 0.0299	
1.0	16	1.421346		1.0	16	0.94383	1.0	16	0.520817
	17	1.604037			17	0.67249		17	0.377456
	18	1.403161			18	1.13158		18	0.581067
	19	1.609673			19	1.38166		19	0.710339
	20	1.407105			20	0.94238		20	0.358911
		1.42135 1.4891 0.0482			0.94383 1.01439 0.1174			0.52082 0.50972 0.0655	

Level of global 5mC (%)

Bone marrow

Radiation dose (Gy)	Animal ID	Levels of global 5mC	Median	Mean	S.E.
0	1	0.589			
	2	0.4095			
	3	0.43			
	4	0.4785			
	5	0.3145			
			0.43	0.4443	0.045

Lung

Radiation dose (Gy)	Animal ID	Levels of global 5mC	Median	Mean	S.E.
0	1	1.18515			
	2	0.85665			
	3	1.0521			
	4	1.0653			
	5	1.2288			
			1.0653	1.0776	0.0648

Testis

Radiation dose (Gy)	Animal ID	Levels of global 5mC	Median	Mean	S.E.
0	1	0.5535			
	2	0.703			
	3	0.794			
	4	0.417			
	5	0.3175			
			0.5535	0.557	0.038

0.05	6	0.4615		
	7	0.419		
	8	0.488		
	9	0.324		
	10	0.564		
		0.4615	0.4513	0.04

0.05	6	1.06875		
	7	0.9066		
	8	1.17525		
	9	1.1385		
	10	1.23375		
		1.1385	1.1046	0.0563

			0.05	6	0.5515
				7	0.89
				8	0.6245
				9	0.3145
				10	0.3735
		0.5515	0.5508	0.032	

0.1	11	0.5785				0.1	11	1.24935				0.1	11	0.5395			
	12	0.553					12	1.2474					12	0.377			
	13	0.5255					13	1.21215					13	0.685			
	14	0.464					14	0.99255					14	0.743			
	15	0.4205					15	0.8475					15	0.718			
		0.5255	0.5083	0.029				1.21215	1.1098	0.0811				0.685	0.6125	0.059	
1.0	16	0.651				1.0	16	1.29485				1.0	16	0.8105			
	17	0.5995					17	1.2011					17	0.781			
	18	0.5945					18	1.31385					18	0.815			
	19	0.4295					19	1.0014					19	0.394			
	20	0.5745					20	1.2654					20	0.416			
		0.5945	0.5298	0.057				1.2654	1.2654	0.0568				0.781	0.6433	0.06	

Levels of IL-10 (in 100 mg protein)

<u>Bone marrow</u>			Mean	S.E.	<u>Lung</u>			Mean	S.E.	<u>Testis</u>				
Radiation dose (Gy)	Animal ID	Levels of Median IL-10			Radiation dose (Gy)	Animal ID	Levels of Median IL-10			Radiation dose (Gy)	Animal ID	Levels of Median IL-10	Mean	S.E.
0	1	4.713			0	1	6.57775			0	1	8.923536		
	2	4.986				2	7.34176				2	10.24895		
	3	6.091				3	6.81845				3	13.47465		
	4	4.96				4	6.71338				4	10.60873		
	5	6.281				4	6.71338				5	10.96967		
		4.986	5.4059	0.323		5	6.5961					10.609	10.845	0.743
							6.71338	6.8095	0.14					
					0.05	6	10.6737							

0.05	6	9.328			
	7	6.138			
	8	6.768			
	9	9.091			
	10	5.998			
		6.768	7.4645	0.725	

	7	10.0685			
	8	8.76816 9			
		10.6287			
	10	8.6559			
		10.0685	9.759	0.4409	

0.05	6	17.9129			
	7	13.35477 8			
		15.9712			
	9	13.24734			
	10	12.31075			
		13.355	14.559	1.036	

0.1	11	3.538	0.1	11	6.43242	0.1	11	10.73268	12	4.092	12	5.88784	12	12.29926
	13	4.548	13	7.60433	13	13.40989								
	14	5.989	14	8.33731	14	10.62683								
	15	5.032	15	6.41224	15	12.40095								

4.548 4.9154 0.406

6.43242 6.9348 0.4493

12.299 11.894 0.533

1.0	16	4.453	17	4.504	18			
		5.03						
	19		7.421					
	20		5.578					
		5.03	5.3974	0.546				

1.0	16	6.81875			
	17	6.46066			
	18	6.56455			
	19	5.9834			
	20	7.34			
		6.56455	6.6335	0.2225	

1.0	16	9.517884	17	9.2756			
			18	11.8389			
			19	9.842398			
			20	10.70568			
				9.8424			
					10.236	0.468	

Levels of global 5hmC (%)

Bone marrow

Radiation dose (Gy)	Animal ID	Levels of global 5hmC	Median	Mean	S.E.
0	1	0.075			
	2	0.0925			
	3	0.0675			
	4	0.0825			
	5	0.0565			
			0.075	0.0748	0.002
0.05	6	0.0735			
	7	0.0695			
	8	0.0745			
	9	0.0785			
	10	0.044			
			0.0735	0.068	0.003
0.1	11	0.059			
	12	0.0805			
	13	0.0645			
	14	0.046			

Lung

Radiation dose (Gy)	Animal ID	Levels of global 5hmC	Median	Mean	S.E.
0	1	0.419			
	2	0.413			
	3	0.3645			
	4	0.3845			
	5	0.511			
			0.413	0.4184	0.0252
0.05	6	0.409			
	7	0.3875			
	8	0.401			
	9	0.39			
	10	0.4295			
			0.401	0.4034	0.0276
0.1	11	0.3505			
	12	0.3475			
	13	0.308			

Testis

Radiation dose (Gy)	Animal ID	Levels of global 5hmC	Median	Mean	S.E.
0	1	0.1555			
	2	0.1465			
	3	0.1255			
	4	0.133			
	5	0.0795			
			0.133	0.128	0.003
0.05	6	0.0955			
	7	0.157			
	8	0.092			
	9	0.1555			
	10	0.092			
			0.0955	0.1184	0.004
0.1	11	0.09			
	12	0.0965			
	13	0.0865			
	14	0.067			

15 0.0435
0.059 0.0587 0.005

14 0.249
15 0.274
0.308 0.3058 0.02

15 0.0595
0.0865 0.0799 0.004

1.0 16 0.063
17 0.054

1.0 16 0.3295
17 0.3055

1.0 16 0.068
17 0.096

18 0.0405
19 0.0395
20 0.027
0.0405 0.0448 0.005

18 0.334
19 0.194
20 0.213
0.3055 0.2752 0.0298

18 0.081
19 0.0545
20 0.065
0.068 0.0729 0.005
