

Table SI. Characteristics of the patient and healthy controls.

Patient and controls	Age	Sex	Radiation Source	Duration of radiation	Times of blood collection
Irradiated patient	30	male	Ir-192	30 sec	Day 114 (1st) Day 631 (2nd)
Control 1	30	male	No	No	
Control 2	31	male	No	No	
Control 3	31	male	No	No	
Control 4	29	male	No	No	
Control 5	29	male	No	No	
Control 6	30	male	No	No	
Control 7	30	male	No	No	
Control 8	31	male	No	No	
Control 9	31	male	No	No	
Control 10	32	male	No	No	

Table SII. Blood routine examination at Stage 1.

Blood test	Results	Unit	Mark	Normal range
White blood cell count	3.9	$\times 10^9/l$		3.50-9.50
Red blood cell count	4.22	$\times 10^{12}/l$		4.30-5.80
Hemoglobin	134.00	g/l		~130.00
Platelet count,	152.00	$\times 10^9/l$		~125.00
Neutrophil percentage	68.7			40.00-75.00
Lymphocyte percentage	0.8		↓	20.00-50.00
Monocyte percentage	10.6		↑	3.00-10.00
Eosinophil percentage	0.5			0.40-8.00
Basophil absolute count	0.3			0.00-1.00
Neutrophil count,	2.7	$\times 10^9/l$		1.80-6.30
Lymphocyte absolute count	0.8	$\times 10^9/l$		1.10-3.20
Monocyte absolute count	0.4	$\times 10^9/l$		0.10-0.60
Eosinophil absolute count	0.02	$\times 10^9/l$		0.02-0.52
Basophil absolute count	0.01	$\times 10^9/l$		0.00-0.06
Hematocrit	37.6	%		40.00-50.00
Mean corpuscular volume	89.1	fL		82.00-100.00
Mean corpuscular hemoglobin	31.8	pg		27.00-34.00
Mean corpuscular hemoglobin concentration	356	g/l	↑	~316.00
Red cell distribution width	39.7	fL		37.00-50.00
Mean platelet volume	10.1	fL		9.00-13.00
Platelet distribution width	10.9	fL		9.00-17.00
Platelet large cell ratio	25.5	%		13.00-43.00

Table III. Blood routine examination in Stage 2.

Blood test	Results	Unit	Mark	Normal range
White blood cell count	3.19	$\times 10^9/l$	↓	3.50-9.50
Red blood cell count	4.47	$\times 10^{12}/l$		4.30-5.80
Hemoglobin	145.00	g/l		~130.00
Platelet count,	250.00	$\times 10^9/l$		~125.00
Neutrophil percentage	52.40	%		40.00-75.00
Lymphocyte percentage	34.20	%		20.00-50.00
Monocyte percentage	12.20	%	↓	3.00-10.00
Eosinophil percentage	0.90	%		0.40-8.00
Basophil absolute count	0.30	%		0.00-1.00
Neutrophil count,	1.67	$\times 10^9/l$	↓	1.80-6.30
Lymphocyte absolute count	1.09	$\times 10^9/l$	↓	1.10-3.20
High-sensitivity C-reactive protein	< 0.5	mg/l		0.00-10.00
Monocyte absolute count	0.39	$\times 10^9/l$		0.10-0.60
Eosinophil absolute count	0.03	$\times 10^9/l$		0.02-0.52
Basophil absolute count	0.01	$\times 10^9/l$		0.02-0.06
Hematocrit	41.00	%		40.00-50.00
Mean corpuscular volume	91.70	fL		82.00-100.00
Mean corpuscular hemoglobin	32.40	pg		27.00-34.00
Mean corpuscular hemoglobin concentration	354.00	g/l		~316.00
Red cell distribution width	40.70	fL		37.00-50.00
Mean platelet volume	9.20	fL		9.00-13.00
Thrombocytocrit	0.23			0.09-0.24
Platelet distribution width	9.30	fL		9.00-17.00
Platelet large cell ratio	17.50	%		13.00-43.00
Red cell distribution width	12.20	%		10.90-16.40
Nucleated red blood cells	0.00	$\times 10^9/l$		
Nucleated red blood cells	0.00	/100WBC		