Case Report

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Supplementary Table

Supplementary Table 1: Summary of the microarray results of upregulated genes. Differentially expressed genes at various time point post 10Gy of gamma radiation were enriched to various biological processes and molecular functions base on enriched gene ontology (EGO) with enrichment greater than 4, $p<0.05$ and FDR less than 1.

Ontology classification	EGO	P value	FDR	No. of Genes	Gene list
Biological process (BP)	inflammatory response	1.21E-12	1.88E-09	18	C3AR1, IL1F9, IL6, CCL2, PTGS2, CCR1, CXCL3, TLR13, CXCL2, CCL5, CCL7, CCL6, TNFRSF1B, IL1B, CLEC7A, NOS2, IL1A, PTAFR
	immune response	1.02E-09	1.58E-06	14	OSM, CSF3, IL6, TNFRSF1B, CCL2, CCR1, OASL2, CXCL3, CXCL2, IL1B, CCL5, CCL7, IL1A, CCL6
	cellular response to interleukin-1	6.48E-09	1.10E-05	9	LCN2, IL6, CCL2, CXCL2, EDN1, SAA3, CCL5, CCL7, CCL6
	Chemotaxis	1.40E-07	2.17E-04	9	C3AR1, CCL2, CCR1, CXCL3, CXCL2, CCL5, CCL7, PTAFR, CCL6
	chemokine-MSP1	3.27E-07	5.07E-04	7	CCL2, CCR1, CXCL3, CXCL2, CCL5, CCL7, CCL6
	cellular RTI1	1.17E-06	0.002	7	GBP7, CCL2, EDN1, NOS2, CCL5, CCL7, CCL6
	neutrophil chemotaxis	1.28E-06	0.002	7	CCL2, CXCL3, CXCL2, IL1B, CCL5, CCL7, CCL6
	cellular response to TNF	1.35E-06	0.002	8	LCN2, IL6, CCL2, EDN1, FABP4, CCL5, CCL7, CCL6
	positive regulation of ERK1 and ERK2 cascade	4.79E-06	0.007	9	IL6, CCL2, CCR1, IL1B, CCL5, SCIMP, CCL7, IL1A, CCL6
	positive regulation of GTPase activity	9.48E-05	0.147	7	RGS1, CCL2, RGS2, RASGEF1B, CCL5, CCL7, CCL6
	positive regulation of inflammatory response	2.85E-04	0.44	5	CCL2, FABP4, CCL5, CCL7, CCL6
	cytokine-MSP2	9.48E-05	0.00581	7	KLF6, IL1F9, IL6, CCL2, CSF2RB2, IL1B, IL1A
	Cytokine-cytokine receptor interaction	6.16E-07	2.80E-05	12	OSM, CSF3, IL6, TNFRSF1B, CCL2, CSF2RB2, CCR1, IL1B, CCL5, IL7R, CCL7, IL1A
	TNF signaling pathway	4.22E-08	4.60E-05	10	IL6, TNFRSF1B, CCL2, PTGS2, MMP9, CXCL3, CXCL2, EDN1, IL1B, CCL5
	response to lipopolysaccharide	6.76E-06	0.01	9	TNFRSF1B, PTGS2, CXCL3, CXCL2, EDN1, IL1B, NOS2, PTAFR, TRIB1
	positive regulation of ERK1 and ERK2 cascade	4.79E-06	4.58E-04	9	IL6, CCL2, CCR1, IL1B, CCL5, SCIMP, CCL7, IL1A, CCL6
	cellular response to lipopolysaccharide	8.87E-05	0.013	8	LCN2, CSF3, IL6, TNFRSF1B, CCL2, CXCL3, CXCL2, NOS2
	positive regulation of gene expression	5.12E-06	4.41E-04	12	LCN2, EGR1, IL6, ATF3, ID2, IL1B, TRP53INP1, CCL5, IL7R, PPP1R15A, IL1A, PLAUR
Molecular function (MF)	cytokine activity	8.83E-10	1.12E-06	13	OSM, CSF3, IL1F9, IL6, CCL2, CXCL3, CXCL2, EDN1, IL1B, CCL5, CCL7, IL1A, CCL6
	chemokine activity	4.44E-06	0.0056	6	CCL2, CXCL3, CXCL2, CCL5, CCL7, CCL6

Note: [1]RTI; response to interferon-gamma, 2MSP; mediated signaling pathway