

Table SIII. Pathway analysis of the predicted target genes of microRNAs upregulated >2.000-fold in the small intestine of mice exposed to 10 Gy of X-ray irradiation.

Pathway	P-value	Matched Entities	Pathway Entities of Experiment Type
Mm_PluriNetWork_WP1763_89515	1.63×10^{-18}	7	291
Mm_mRNA_processing_WP310_78419	7.06×10^{-11}	4	549
Mm_Non-odorant_GPCRs_WP1396_69993	2.45×10^{-8}	3	267
Mm_Metapathway_biotransformation_WP1251_94721	2.45×10^{-8}	3	143
Mm_Myometrial_Relaxation_and_Contraction_Pathways_WP385_95806	2.45×10^{-8}	3	150
Mm_IL-6_signaling_Pathway_WP387_72091	2.45×10^{-8}	3	99
Mm_Focal_Adhesion-PI3K-Akt-mTOR-signaling_pathway_WP2841_94308	2.45×10^{-8}	3	330
Mm_Focal_Adhesion_WP85_94410	2.45×10^{-8}	3	185
Mm_Chemokine_signaling_pathway_WP2292_97515	2.45×10^{-8}	3	191
Mm_Cytoplasmic_Ribosomal_Proteins_WP163_78425	8.49×10^{-6}	2	80
Mm_Microglia_Pathogen_Phagocytosis_Pathway_WP3626_102043	8.49×10^{-6}	2	41
Mm_IL-3_Signaling_Pathway_WP373_69196	8.49×10^{-6}	2	100
Mm_MicroRNAs_in_Cardiomyocyte_Hypertrophy_WP1560_70037	8.49×10^{-6}	2	104
Mm_Adipogenesis_genes_WP447_87026	8.49×10^{-6}	2	133
Mm_Retinol_metabolism_WP1259_89974	8.49×10^{-6}	2	39
Mm_SIDS_Susceptibility_Pathways_WP1266_69139	8.49×10^{-6}	2	61
Mm_Splicing_factor_NOVA_regulated_synaptic_proteins_WP1983_89961	8.49×10^{-6}	2	42
Mm_Spinal_Cord_Injury_WP2432_102465	8.49×10^{-6}	2	102
Mm_Tryptophan_metabolism_WP79_91016	8.49×10^{-6}	2	44
Mm_PPAR_signaling_pathway_WP2316_97554	0.002920748	1	85

Mm_Heart_Development_WP2067_88634	0.002920748	1	47
Mm_One_Carbon_Metabolism_WP435_98059	0.002920748	1	29
Mm_Complement_Activation,_Classical_Pathway_WP200_72061	0.002920748	1	17
Mm_Estrogen_signaling_WP1244_90713	0.002920748	1	74
Mm_MAPK_signaling_pathway_WP493_78412	0.002920748	1	159
Mm_Selenium_Micronutrient_Network_WP1272_95973	0.002920748	1	31
Mm_Selenium_metabolism-Selenoproteins_WP108_97059	0.002920748	1	48
Mm_IL-5_Signaling_Pathway_WP151_69175	0.002920748	1	69
Mm_Complement_and_Coagulation_Cascades_WP449_71733	0.002920748	1	62
Mm_Prostaglandin_Synthesis_and_Regulation_WP374_69204	0.002920748	1	31
Mm_Glycolysis_and_Gluconeogenesis_WP157_90167	0.002920748	1	50
Mm_Oxidative_Damage_WP1496_90720	0.002920748	1	41
Mm_Fatty_Acid_Biosynthesis_WP336_90165	0.002920748	1	22
Mm_EGFR1_Signaling_Pathway_WP572_82883	0.002920748	1	176
Mm_FAS_pathway_and_Stress_induction_of_HSP_regulation_WP571_71736	0.002920748	1	38
Mm_Glutathione_and_one_carbon_metabolism_WP730_87554	0.002920748	1	44
Mm_Odorant_GPCRs_WP1397_82866	0.002920748	1	225
Mm_Methylation_WP1247_69203	0.002920748	1	9
Mm_Matrix_Metalloproteinases_WP441_69114	0.002920748	1	29
Mm_G_Protein_Signaling_Pathways_WP232_89955	0.002920748	1	91
Mm_Glycogen_Metabolism_WP317_89956	0.002920748	1	34
Mm_Kit_Receptor_Signaling_Pathway_WP407_69079	0.002920748	1	67
Mm_GPCRs,_Other_WP41_78413	0.002920748	1	210
Mm_Signaling_of_Hepatocyte_Growth_Factor_Receptor_WP193_88163	0.002920748	1	34

Mm_Glutathione_metabolism_WP164_85644	0.002920748	1	19
Mm_Insulin_Signaling_WP65_88446	0.002920748	1	160
Mm_Eukaryotic_Transcription_Initiation_WP567_8995 7	0.002920748	1	41
Mm_p38_MAPK_Signaling_Pathway_WP350_95744	0.002920748	1	34
Mm_Glucuronidation_WP1241_79223	0.002920748	1	18
Mm_Histone_modifications_WP300_71890	0.002920748	1	5
Mm_Eicosanoid_Synthesis_WP318_89525	0.002920748	1	19
Mm_Calcium_Regulation_in_the_Cardiac_Cell_WP553 _95761	0.002920748	1	145
Mm_Id_Signaling_Pathway_WP512_69147	0.002920748	1	52
Mm_Alzheimers_Disease_WP2075_97336	0.002920748	1	77
Mm_Apoptosis_Modulation_by_HSP70_WP166_98541	0.002920748	1	18
Mm_Integrin-mediated_Cell_Adhesion_WP6_97547	0.002920748	1	101
Mm_GPCRs,_Class_A_Rhodopsin-like_WP189_79710	0.002920748	1	231
Mm_Iron_Homeostasis_WP1596_72018	0.002920748	1	14
Mm_Wnt_Signaling_Pathway_NetPath_WP539_71716	0.002920748	1	109
Mm_Proteasome_Degradation_WP519_95796	0.002920748	1	53
Mm_ESC_Pluripotency_Pathways_WP339_94309	0.002920748	1	118
Mm_Oxidation_by_Cytochrome_P450_WP1274_73502	0.002920748	1	40
Mm_BMP_Signaling_Pathway_in_Eyelid_Development _WP3663_90081	0.002920748	1	20
Mm_Neural_Crest_Differentiation_WP2074_101978	0.002920748	1	101
Mm_Regulation_of_Actin_Cytoskeleton_WP523_7132 6	0.002920748	1	151