

Pathways deregulated after pCD and nCD exposure identified based on miRNA-mRNA interactions

ID	Pathway name	pCD24h10	pCD24h50	nCD4h10	nCD4h100	nCD24h10	nCD24h100
hsa00512	Mucin type O-Glycan biosynthesis	X	X	X	X	X	X
hsa04261	Adrenergic signaling in cardiomyocytes	X	X	X	X	X	X
hsa04921	Oxytocin signaling pathway	X	X	X	X	X	X
hsa05214	Glioma	X	X	X	X	X	X
hsa05032	Morphine addiction	X	X	X	X	X	X
hsa05210	Colorectal cancer	X	X	X	X	X	X
hsa05205	Proteoglycans in cancer	X	X	X	X	X	X
hsa05212	Pancreatic cancer	X	X	X	X	X	X
hsa04724	Glutamatergic synapse	X	X	X	X	X	X
hsa05213	Endometrial cancer	X	X	X	X	X	X
hsa04068	FoxO signaling pathway	X	X	X	X	X	X
hsa04360	Axon guidance	X	X	X	X	X	X
hsa04024	cAMP signaling pathway	X	X	X	X	X	X
hsa04730	Long-term depression	X	X	X	X	X	X
hsa05202	Transcriptional misregulation in cancer	X	X	X	X	X	X
hsa04810	Regulation of actin cytoskeleton	X	X	X	X	X	X
hsa04150	mTOR signaling pathway	X	X	X	X	X	X
hsa04919	Thyroid hormone signaling pathway	X	X	X	X	X	X
hsa05221	Acute myeloid leukemia	X	X	X	X	X	X
hsa04015	Rap1 signaling pathway	X	X	X	X	X	X
hsa04310	Wnt signaling pathway	X	X	X	X	X	X
hsa04152	AMPK signaling pathway	X	X	X	X	X	X
hsa05215	Prostate cancer	X	X	X	X	X	X
hsa04151	PI3K-Akt signaling pathway	X	X	X	X	X	X
hsa05412	Arrhythmogenic right ventricular cardiomyopathy (ARVC)	X	X	X	X	X	X
hsa04510	Focal adhesion	X	X	X	X	X	X
hsa04012	ErbB signaling pathway	X	X	X	X	X	X
hsa04350	TGF-beta signaling pathway	X	X	X	X	X	X
hsa05200	Pathways in cancer	X	X	X	X	X	X
hsa04014	Ras signaling pathway	X	X	X	X	X	X
hsa05211	Renal cell carcinoma	X	X	X	X	X	X
hsa04390	Hippo signaling pathway	X	X	X	X	X	X
hsa05220	Chronic myeloid leukemia	X	X	X	X	X	X
hsa04550	Signaling pathways regulating pluripotency of stem cells	X	X	X	X	X	X
hsa04010	MAPK signaling pathway	X	X	X	X	X	X
hsa05218	Melanoma	X	X	X	X	X	X
hsa04320	Dorso-ventral axis formation	X	X	X	X	X	X
hsa04520	Adherens junction	X	X	X	X	X	X
hsa04144	Endocytosis	X	X	X	X	X	X
hsa00310	Lysine degradation	X	X	X	X	X	X
hsa04512	ECM-receptor interaction	X	X	X	X	X	X
hsa05161	Hepatitis B	X	X	X	X	X	X
hsa04066	HIF-1 signaling pathway	X	X	X	X	X	X
hsa00061	Fatty acid biosynthesis	X	X	X	X	X	X
hsa04710	Circadian rhythm	X	X	X	X	X	X
hsa04070	Phosphatidylinositol signaling system	X	X	X	X	X	X
hsa04141	Protein processing in endoplasmic reticulum	X	X	X	X	X	X
hsa04917	Prolactin signaling pathway	X	X	X	X	X	X
hsa03015	mRNA surveillance pathway	X	X	X	X	X	X
hsa04713	Circadian entrainment	X	X	X	X	X	X
hsa05217	Basal cell carcinoma	X	X	X	X	X	X
hsa04071	Sphingolipid signaling pathway	X	X	X	X	X	X
hsa04915	Estrogen signaling pathway	X	X	X	X	X	X
hsa05020	Prion diseases	X	X	X	X	X	X
hsa05231	Choline metabolism in cancer	X	X	X	X	X	X
hsa00534	Glycosaminoglycan biosynthesis - heparan sulfate / heparin	X	X	X	X	X	X
hsa04722	Neurotrophin signaling pathway	X	X	X	X	X	X
hsa04514	Cell adhesion molecules (CAMs)	X	X	X	X	X	X
hsa04723	Retrograde endocannabinoid signaling	X	X	X	X	X	X
hsa04918	Thyroid hormone synthesis	X	X	X	X	X	X
hsa04340	Hedgehog signaling pathway	X	X	X	X	X	X
hsa04725	Cholinergic synapse	X	X	X	X	X	X
hsa05100	Bacterial invasion of epithelial cells	X	X	X	X	X	X
hsa04660	T cell receptor signaling pathway	X	X	X	X	X	X
hsa04666	Fc gamma R-mediated phagocytosis	X	X	X	X	X	X
hsa04728	Dopaminergic synapse	X	X	X	X	X	X
hsa00780	Biotin metabolism	X	X	X	X	X	X
hsa04115	p53 signaling pathway	X	X	X	X	X	X
hsa00514	Other types of O-glycan biosynthesis	X	X	X	X	X	X
hsa04540	Gap junction	X	X	X	X	X	X
hsa00533	Glycosaminoglycan biosynthesis - keratan sulfate	X	X	X	X	X	X
hsa00604	Glycosphingolipid biosynthesis - ganglio series	X	X	X	X	X	X
hsa04611	Platelet activation	X	X	X	X	X	X
hsa05223	Non-small cell lung cancer	X	X	X	X	X	X
hsa05203	Viral carcinogenesis	X	X	X	X	X	X
hsa04720	Long-term potentiation	X	X	X	X	X	X
hsa04530	Tight junction	X	X	X	X	X	X
hsa05131	Shigellosis	X	X	X	X	X	X
hsa01212	Fatty acid metabolism	X	X	X	X	X	X
hsa04920	Adipocytokine signaling pathway	X	X	X	X	X	X
hsa04120	Ubiquitin mediated proteolysis	X	X	X	X	X	X
hsa05222	Small cell lung cancer	X	X	X	X	X	X
hsa04370	VEGF signaling pathway	X	X	X	X	X	X
hsa05166	HTLV-I infection	X	X	X	X	X	X
hsa01040	Biosynthesis of unsaturated fatty acids	X	X	X	X	X	X
hsa05162	Measles	X	X	X	X	X	X
hsa04910	Insulin signaling pathway	X	X	X	X	X	X
hsa05031	Amphetamine addiction	X	X	X	X	X	X
hsa04022	cGMP-PKG signaling pathway	X	X	X	X	X	X
hsa00562	Inositol phosphate metabolism	X	X	X	X	X	X
hsa04750	Inflammatory mediator regulation of TRP channels	X	X	X	X	X	X
hsa05230	Central carbon metabolism in cancer	X	X	X	X	X	X
hsa05033	Nicotine addiction	X	X	X	X	X	X
hsa00510	N-Glycan biosynthesis	X	X	X	X	X	X
hsa04930	Type II diabetes mellitus	X	X	X	X	X	X
hsa04210	Apoptosis	X	X	X	X	X	X
hsa04668	TNF signaling pathway	X	X	X	X	X	X
hsa00250	Alanine, aspartate and glutamate metabolism	X	X	X	X	X	X
hsa05160	Hepatitis C	X	X	X	X	X	X
hsa04960	Aldosterone-regulated sodium reabsorption	X	X	X	X	X	X
hsa04727	GABAergic synapse	X	X	X	X	X	X