

Cyno MSC IFNg Significant Pathways

Cell mobility & adhesion

- KEGG ECM-receptor interaction
- KEGG Focal adhesion
- KEGG Cell adhesion molecules (CAMs)
- KEGG Regulation of actin cytoskeleton
- KEGG Tight junction
- KEGG Chemokine signaling pathway
- BIOCARTA integrin signaling pathway
- BIOCARTA erk and pi-3 kinase are necessary for collagen binding in corneal epithelia
- NCI Integrins in angiogenesis
- NCI Integrin cell surface interactions
- NCI Collagen adhesion via alpha 2 beta 1 glycoprotein
- NCI Stabilization and expansion of the E-cadherin adherens junction
- NCI p130Cas linkage to MAPK signaling for integrins
- NCI Cell surface interactions at the vascular wall
- NCI Integrin alpha11bbeta3 signaling

Interferon Signaling & related

- KEGG Cytokine-cytokine receptor interaction
- KEGG Influenza A
- KEGG Hepatitis B
- KEGG Measles
- KEGG Herpes simplex infection
- KEGG PI3K-Akt signaling pathway
- KEGG Pathogenic Escherichia coli infection
- KEGG Toxoplasmosis
- KEGG Malaria
- KEGG Staphylococcus aureus infection
- KEGG Tuberculosis
- KEGG RIG-I-like receptor signaling pathway
- KEGG NF-kappa B signaling pathway
- BIOCARTA ifn alpha signaling pathway
- BIOCARTA ifn gamma signaling pathway
- BIOCARTA nfkb activation by nontypeable hemophilus influenzae
- REACTOME Negative regulators of RIG-I/MDA5 signaling
- REACTOME Interferon Signaling
- REACTOME Interferon gamma signaling
- REACTOME Interferon alpha/beta signaling
- REACTOME TRAF6 mediated IRF7 activation
- REACTOME TRAF3-dependent IRF activation pathway
- REACTOME RIG-I/MDA5 mediated induction of IFN-alpha/beta pathways
- IMMUNEMAP IL-22

Pathogen Response

- KEGG Influenza A
- KEGG Hepatitis B
- KEGG Measles
- KEGG Herpes simplex infection
- KEGG Pathogenic Escherichia coli infection
- KEGG Toxoplasmosis
- KEGG Malaria
- KEGG Staphylococcus aureus infection
- KEGG Tuberculosis
- NCI Vpu mediated degradation of CD4
- NCI Vif-mediated degradation of APOBEC3G
- NCI SCF-beta-TrCP mediated degradation of Emi1
- IMMUNEMAP NLR signaling
- IMMUNEMAP IL-21

Antigen Presentation

- KEGG Antigen processing and presentation
- REACTOME Antigen Presentation: Folding, assembly and peptide loading of class I MHC
- NCI IL23-mediated signaling events
- NCI IL12-mediated signaling events

Misc Immune Pathways

- BIOCARTA b cell survival pathway
- REACTOME Activation of RAS in B Cells
- KEGG_ALLOGRAFT_REJECTION

Cell Cycle

- NCI APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1
- NCI Autodegradation of Cdh1 by Cdh1:APC/C
- NCI Cdc20:Phospho-APC/C mediated degradation of Cyclin A
- REACTOME CDT1 association with the CDC6:ORC:origin complex
- REACTOME Assembly of the pre-replicative complex
- REACTOME Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins
- REACTOME APC/C:Cdc20 mediated degradation of Securin
- REACTOME Stabilization of p53
- REACTOME APC/C-mediated degradation of cell cycle proteins
- REACTOME p53-Dependent G1 DNA Damage Response
- REACTOME p53-Dependent G1/S DNA damage checkpoint
- REACTOME DNA Replication Pre-Initiation
- REACTOME DNA Replication
- REACTOME APC/C:Cdc20 mediated degradation of mitotic proteins
- REACTOME Regulation of APC/C activators between G1/S and early anaphase
- REACTOME Regulation of mitotic cell cycle
- REACTOME Growth hormone receptor signaling
- REACTOME cell division
- REACTOME CDK-mediated phosphorylation and removal of Cdc6
- REACTOME Activation of RAS in B Cells
- REACTOME FGFR2b ligand binding and activation