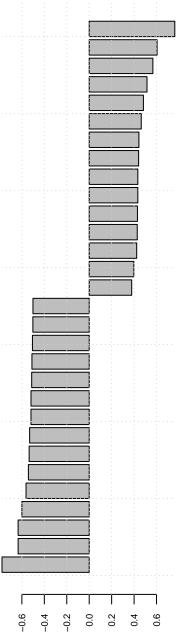
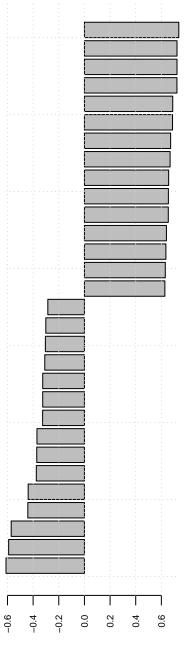


Mucopolysaccharidoses
Unwinding of DNA
Biotin transport and metabolism
Hyaluronan uptake and degradation
Hyaluronan metabolism
Ribosomal scanning and start codon recognition
PERK regulates gene expression
Tat-mediated HIV elongation arrest and recovery
Pausing and recovery of Tat-mediated HIV elongation
Deadenylation of mRNA
TICAM1,TRAF6-dependent induction of TAK1 complex
Protein methylation
Formation of the ternary complex, and subsequently, the 43S complex
SLBP independent Processing of Histone Pre-mRNAs
Pausing and recovery of HIV elongation
HIV elongation arrest and recovery
rRNA modification in the nucleus and cytosol
Lysosphingolipid and LPA receptors
Translation initiation complex formation
Insertion of tail-anchored proteins into the endoplasmic reticulum membrane
Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S
Response of EIF2AK1 (HRI) to heme deficiency
Mitophagy
Signaling by Activin
SLBP Dependent Processing of Replication–Dependent Histone Pre–mRNAs
Synthesis of active ubiquitin: roles of E1 and E2 enzymes
Assembly Of The HIV Virion
Synthesis And Processing Of GAG, GAGPOL Polyproteins
Membrane binding and targetting of GAG proteins
Receptor Mediated Mitophagy

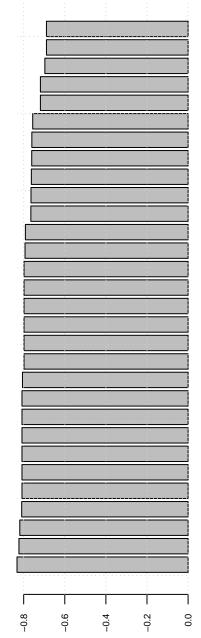


Mucopolysaccharidoses Unwinding of DNA Biotin transport and metabolism Hyaluronan uptake and degradation Hyaluronan metabolism DNA strand elongation CS/DS degradation Processive synthesis on the lagging strand Polymerase switching Leading Strand Synthesis Reduction of cytosolic Ca++ levels HS-GAG degradation Removal of the Flap Intermediate Mismatch repair (MMR) directed by MSH2:MSH3 (MutSbeta) Lagging Strand Synthesis HIV elongation arrest and recovery rRNA modification in the nucleus and cytosol Lysosphingolipid and LPA receptors Translation initiation complex formation Insertion of tail-anchored proteins into the endoplasmic reticulum membrane Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S Response of EIF2AK1 (HRI) to heme deficiency Mitophagy Signaling by Activin SLBP Dependent Processing of Replication-Dependent Histone Pre-mRNAs Synthesis of active ubiquitin: roles of E1 and E2 enzymes Assembly Of The HIV Virion Synthesis And Processing Of GAG, GAGPOL Polyproteins Membrane binding and targetting of GAG proteins Receptor Mediated Mitophagy

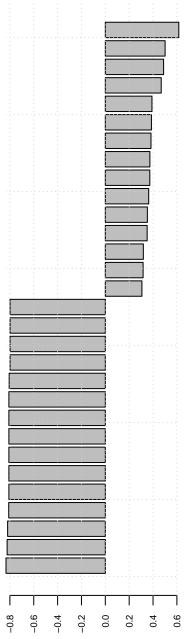
Unwinding of DNA	
Polymerase switching	
Leading Strand Synthesis	
Response to metal ions	
G1/S–Specific Transcription	
Condensation of Prometaphase Chromosomes	
Tetrahydrobiopterin (BH4) synthesis, recycling, salvage and regulation	
Formation of ATP by chemiosmotic coupling	
SLBP independent Processing of Histone Pre-mRNAs	
SLBP Dependent Processing of Replication-Dependent Histone Pre-mRNAs	
DNA strand elongation	
Translesion synthesis by REV1	
Translesion synthesis by POLK	
Folding of actin by CCT/TriC	
SCF(Skp2)-mediated degradation of p27/p21	
The role of GTSE1 in G2/M progression after G2 checkpoint	
Metabolism of cofactors	
Ubiquitin-dependent degradation of Cyclin D	
Lagging Strand Synthesis	
Regulation of activated PAK-2p34 by proteasome mediated degradation	
Removal of the Flap Intermediate	
Vpu mediated degradation of CD4	
Negative regulation of NOTCH4 signaling	
Hh mutants are degraded by ERAD	
SCF-beta-TrCP mediated degradation of Emi1	
FBXL7 down-regulates AURKA during mitotic entry and in early mitosis	
HuR (ELAVL1) binds and stabilizes mRNA	
Regulation of BACH1 activity	
Competing endogenous RNAs (ceRNAs) regulate PTEN translation	
Regulation of PTEN mRNA translation	
	-0.6 -0.4 0.0 0.2 0.4



Unwinding of DNA
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SCF(Skp2)-mediated degradation of p27/p21
Sensory perception of taste
RUNX2 regulates osteoblast differentiation
NR1H3 & NR1H2 regulate gene expression linked to cholesterol transport and efflux
Blood group systems biosynthesis
HDMs demethylate histones
Signaling by BMP
Sensory perception of sweet, bitter, and umami (glutamate) taste
TRP channels
Collagen chain trimerization
Lewis blood group biosynthesis
Caspase activation via Dependence Receptors in the absence of ligand
Butyrophilin (BTN) family interactions
Synthesis of bile acids and bile salts via 27-hydroxycholesterol
Competing endogenous RNAs (ceRNAs) regulate PTEN translation
Regulation of PTEN mRNA translation

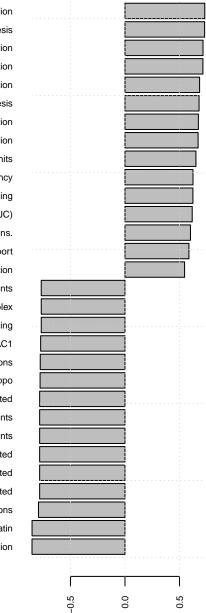


Signaling by PDGFRA transmembrane, juxtamembrane and kinase domain mutants Signaling by PDGFRA extracellular domain mutants Synthesis of PIPs at the early endosome membrane Defective EXT2 causes exostoses 2 Defective EXT1 causes exostoses 1, TRPS2 and CHDS Antigen Presentation: Folding, assembly and peptide loading of class I MHC Mitotic Telophase/Cytokinesis Beta-catenin phosphorylation cascade Interleukin-6 signaling RAF-independent MAPK1/3 activation MAPK3 (ERK1) activation MET activates RAP1 and RAC1 Signaling by Hippo Truncations of AMER1 destabilize the destruction complex Signaling by AXIN mutants Signaling by APC mutants Signaling by AMER1 mutants AXIN missense mutants destabilize the destruction complex APC truncation mutants have impaired AXIN binding Golgi Cisternae Pericentriolar Stack Reorganization T41 mutants of beta-catenin aren't phosphorylated Signaling by GSK3beta mutants Signaling by CTNNB1 phospho-site mutants S45 mutants of beta-catenin aren't phosphorylated S37 mutants of beta-catenin aren't phosphorylated S33 mutants of beta-catenin aren't phosphorylated ERKs are inactivated Cohesin Loading onto Chromatin Establishment of Sister Chromatid Cohesion CLEC7A (Dectin-1) induces NFAT activation



tPNA processing in the mitochandrian
tRNA processing in the mitochondrion
Complex I biogenesis Aflatoxin activation and detoxification
rRNA processing in the mitochondrion
Peptide chain elongation
Viral mRNA Translation
Selenocysteine synthesis
Phase 2 – plateau phase
Eukaryotic Translation Termination
Formation of ATP by chemiosmotic coupling
Initial triggering of complement
Eukaryotic Translation Elongation
Glutathione conjugation
Response of EIF2AK4 (GCN2) to amino acid deficiency
Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)
Signaling by APC mutants
Signaling by AMER1 mutants
AXIN missense mutants destabilize the destruction complex
APC truncation mutants have impaired AXIN binding
Golgi Cisternae Pericentriolar Stack Reorganization
T41 mutants of beta-catenin aren't phosphorylated
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Signaling by CTNNB1 phospho-site mutants
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Cohesin Loading onto Chromatin
Establishment of Sister Chromatid Cohesion
CLEC7A (Dectin-1) induces NFAT activation

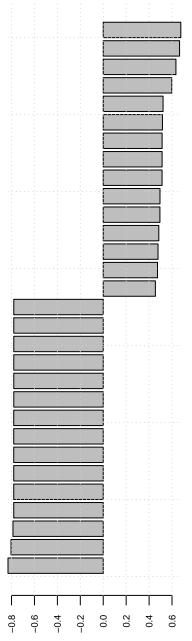
Complex I biogenesis         Signaling by PDGFRA transmembrane, juxtamembrane and kinase domain mutants         Signaling by PDGFRA extracellular domain mutants         Beta-catenin phosphorylation cascade         Synthesis of PIPs at the early endosome membrane         Defective EXT1 causes exostoses 2         Signaling by APER1         Cause PTR2 signaling         ERKs are inactivated         Truncations of AMER1 destabilize the destruction complex         Signaling by AMER1 mutants         Signaling by AMER1 mutants         APC truncation mutants have impaired AXIN binding         MET activates RAP1 and RAC1         Signaling by GTNNB1 phosphorylated         Signaling by GTNNB1 phosphorylated         Si	tRNA processing in the mitochondrion	
Signaling by PDGFRA extracellular domain mutants         Beta-catenin phosphorylation cascade         Synthesis of PIPs at the early endosome membrane         Defective EXT2 causes exostoses 2         Defective EXT1 causes exostoses 1, TRPS2 and CHDS         MET promotes cell motility         Establishment of Sister Chromatid Cohesion         MET activates PTK2 signaling         ERKs are inactivated         Truncations of AMER1 destabilize the destruction complex         Signaling by AMER1 mutants         Signaling by GSK3beta mutants         Signaling by GSK3beta mutants         Signaling by CTNNB1 phospho-site mutants         Signaling by CTNNB1 phosphorylated         Signaling by Chromatin aren't phosphorylated         Signaling by Chromatin interactions         Cohesin Loading onto Chromatin         Chrosin Loading onto Chromatin	Complex I biogenesis	
Beta-catenin phosphorylation cascade         Synthesis of PIPs at the early endosome membrane         Defective EXT2 causes exostoses 2         Detective EXT1 causes exostoses 1, TRPS2 and CHDS         MET promotes cell motility         Establishment of Sister Chromatid Cohesion         MET activates PTR2 signaling         ERKs are inactivated         Truncations of AMER1 destabilize the destruction complex         Signaling by AXIN mutants         Signaling by APC mutants         Signaling by GSK3beta mutants         Signaling by GSK3beta mutants         Signaling by GSK3beta mutants         Signaling by CTNNB1 phosphorylated         Si37 mutants of beta-catenin aren't phosphorylated         Si33 mutants of beta-catenin aren't phosphorylated </td <td>Signaling by PDGFRA transmembrane, juxtamembrane and kinase domain mutants</td> <td></td>	Signaling by PDGFRA transmembrane, juxtamembrane and kinase domain mutants	
Synthesis of PIPs at the early endosome membrane Defective EXT2 causes exostoses 2 Defective EXT1 causes exostoses 1, TRPS2 and CHDS MET promotes cell motility Establishment of Sister Chromatid Cohesion MET activates PTK2 signaling ERKs are inactivated Truncations of AMER1 destabilize the destruction complex Signaling by AXIN mutants Signaling by APC mutants Signaling by APC mutants AXIN missense mutants destabilize the destruction complex APC truncation mutants have impaired AXIN binding MET activates RAP1 and RAC1 Signaling by Hippo T41 mutants of beta-catenin aren't phosphorylated Signaling by GSK3beta mutants Signaling by GSK3beta mutants Signaling by GSK3beta mutants Signaling by GTNNB1 phosphorylated Si37 mutants of beta-catenin aren't phosphorylated Cates in terractions Cohesin Loading onto Chromatin CLEC7A (Dectin-1) induces NFAT activation	Signaling by PDGFRA extracellular domain mutants	
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MET promotes cell motility Establishment of Sister Chromatid Cohesion MET activates PTK2 signaling ERKs are inactivated Truncations of AMER1 destabilize the destruction complex Signaling by AXIN mutants Signaling by AMER1 mutants Signaling by AMER1 mutants Signaling by AMER1 mutants AXIN missense mutants destabilize the destruction complex APC truncation mutants have impaired AXIN binding MET activates RAP1 and RAC1 Syndecan interactions Signaling by Hippo T41 mutants of beta-catenin aren't phosphorylated Signaling by CTNNB1 phospho-site mutants S45 mutants of beta-catenin aren't phosphorylated S33 mutants of beta-catenin aren't phosphorylated Cohesin Loading onto Chromatin CLEC7A (Dectin-1) induces NFAT activation	Defective EXT2 causes exostoses 2	
Establishment of Sister Chromatid Cohesion       Image: Signaling Sister Chromatid Cohesion         MET activates PTK2 signaling       Image: Signaling Sister Chromatid Cohesion         Truncations of AMER1 destabilize the destruction complex       Image: Signaling by AXIN mutants         Signaling by AXIN mutants       Image: Signaling by AMER1 mutants         Signaling by AMER1 mutants       Image: Signaling by AMER1 mutants         Signaling by AMER1 mutants       Image: Signaling by AMER1 mutants         AXIN missense mutants destabilize the destruction complex       Image: Signaling by AMER1 mutants         APC truncation mutants have impaired AXIN binding       Image: Signaling by AMER1         MET activates RAP1 and RAC1       Image: Signaling by Hippo       Image: Signaling by Hippo         T41 mutants of beta-catenin aren't phosphorylated       Image: Signaling by GSK3beta mutants       Image: Signaling by GSK3beta mutants         Signaling by CTNNB1 phosphor-site mutants       Image: Signaling by CTNNB1 phosphorylated       Image: Signaling by CTNNB1 phosphorylated         G33 mutants of beta-catenin aren't phosphorylated       Image: Signaling big GK3beta mutants       Image: Signaling big GK3beta         Chesin Loading onto Chromatin       Image: Signaling big GK3 mutants of beta-catenin aren't phosphorylated       Image: Signaling GK3Beta       Image: Signaling GK3Beta         Chesin Loading onto Chromatin       Image: GK3Beta       Image: GK3Beta <td>Defective EXT1 causes exostoses 1, TRPS2 and CHDS</td> <td></td>	Defective EXT1 causes exostoses 1, TRPS2 and CHDS	
MET activates PTK2 signaling	MET promotes cell motility	
ERKs are inactivated	Establishment of Sister Chromatid Cohesion	
Truncations of AMER1 destabilize the destruction complex       Signaling by AXIN mutants         Signaling by APC mutants       Signaling by AMER1 mutants         Signaling by AMER1 mutants       Signaling by AMER1 mutants         AXIN missense mutants destabilize the destruction complex       APC truncation mutants have impaired AXIN binding         MET activates RAP1 and RAC1       Signaling by Hippo         Signaling by Hippo       Signaling by GSK3beta mutants         Signaling by GSK3beta mutants       Signaling by GSK3beta mutants         Signaling by CTNNB1 phosphorylated       Si37 mutants of beta-catenin aren't phosphorylated         Si37 mutants of beta-catenin aren't phosphorylated       Si37 mutants of beta-catenin aren't phosphorylated         Si37 mutants of beta-catenin aren't phosphorylated       Si33 mutants of beta-catenin aren't phosphorylated         Cohesin Loading onto Chromatin       Chesin Loading onto Chromatin         CLEC7A (Dectin-1) induces NFAT activation       Signaling by Chromatin	MET activates PTK2 signaling	
Signaling by AXIN mutants         Signaling by APC mutants         Signaling by AMER1 mutants         Signaling by AMER1 mutants         AXIN missense mutants destabilize the destruction complex         APC truncation mutants have impaired AXIN binding         MET activates RAP1 and RAC1         Syndecan interactions         Signaling by Hippo         T41 mutants of beta-catenin aren't phosphorylated         Signaling by GSK3beta mutants         Signaling by CTNNB1 phosphorylated         Si37 mutants of beta-catenin aren't phosphorylated         Si37 mutants of beta-catenin aren't phosphorylated         Si37 mutants of beta-catenin aren't phosphorylated         Cohesin Loading onto Chromatin         CLEC7A (Dectin-1) induces NFAT activation	ERKs are inactivated	
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Signaling by Hippo         T41 mutants of beta-catenin aren't phosphorylated         Signaling by GSK3beta mutants         Signaling by CTNNB1 phospho-site mutants         S45 mutants of beta-catenin aren't phosphorylated         S37 mutants of beta-catenin aren't phosphorylated         S33 mutants of beta-catenin aren't phosphorylated         Laminin interactions         Cohesin Loading onto Chromatin         CLEC7A (Dectin-1) induces NFAT activation	MET activates RAP1 and RAC1	
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tRNA processing in the mitochondrion Complex I biogenesis Viral mRNA Translation Peptide chain elongation **Eukaryotic Translation Termination** Selenocysteine synthesis **Eukaryotic Translation Elongation** rRNA processing in the mitochondrion Formation of a pool of free 40S subunits Response of EIF2AK4 (GCN2) to amino acid deficiency Formation of ATP by chemiosmotic coupling Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC) iratory electron transport. ATP synthesis by chemiosmotic coupling, and heat production by uncoupling proteins. Respiratory electron transport Mitochondrial translation elongation Signaling by AMER1 mutants AXIN missense mutants destabilize the destruction complex APC truncation mutants have impaired AXIN binding MET activates RAP1 and RAC1 Syndecan interactions Signaling by Hippo T41 mutants of beta-catenin aren't phosphorylated Signaling by GSK3beta mutants Signaling by CTNNB1 phospho-site mutants S45 mutants of beta-catenin aren't phosphorylated S37 mutants of beta-catenin aren't phosphorylated S33 mutants of beta-catenin aren't phosphorylated Laminin interactions Cohesin Loading onto Chromatin CLEC7A (Dectin-1) induces NFAT activation

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Unwinding of DNA
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Synthesis of PIPs at the Golgi membrane
RHO GTPases activate KTN1
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