Scatterplot of all genes



Rank-rank plot of all genes



number of genes in each quadrant







geneset size

number of genesets FDR<0.05



Scatterplot of all gene sets; FDR<0.05 in red



Scatterplot of all gene sets; top 50 in red



s.bl



Ubiquitin Mediated Degradation of Phosphorylated Cdc25A Ubiquitin-dependent degradation of Cyclin D AUF1 (hnRNP D0) binds and destabilizes mRNA FBXL7 down-regulates AURKA during mitotic entry and in early mitosis Peptide chain elongation Eukaryotic Translation Elongation Selenocysteine synthesis Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (E CASP8 activity is inhibited Pexophagy Hh mutants are degraded by ERAD Negative regulation of NOTCH4 signaling Vpu mediated degradation of CD4 APC/C:Cdc20 mediated degradation of Securin SCF(Skp2)-mediated degradation of p27/p21 TICAM1,TRAF6-dependent induction of TAK1 complex RIPK1-mediated regulated necrosis TICAM1-dependent activation of IRF3/IRF7 PINK1-PRKN Mediated Mitophagy Mitophagy Eicosanoids Aspirin ADME Scavenging of heme from plasma Sensory perception of sweet, bitter, and umami (glutamate) taste Glucuronidation



effect size versus statistical significance

s.dist (effect size)

Class C/3 (Metabotropic glutamate/pheromone receptors



Class C/3 (Metabotropic glutamate/pheromone receptors)



Rank in contrast bl

Class C/3 (Metabotropic glutamate/pheromone re



TICAM1-dependent activation of IRF3/IRF7





TICAM1-dependent activation of IRF3/IRF7

Rank in contrast bl

TICAM1-dependent activation of IRF3/IRF7



Scavenging of heme from plasma



Scavenging of heme from plasma



Rank in contrast bl

Scavenging of heme from plasma



Eicosanoids



Eicosanoids



Rank in contrast bl

Eicosanoids



Pexophagy



Pexophagy



Rank in contrast bl

Pexophagy



SARS-CoV-1 modulates host translation machinery





SARS-CoV-1 modulates host translation machinery

Rank in contrast bl

SARS-CoV-1 modulates host translation machin



Sensory perception of sweet, bitter, and umami (glutamate)



5000 0 -5000 -10000 -15000

Sensory perception of sweet, bitter, and umami (glutamate) taste

Rank in contrast bl

-5000

0

5000

-10000

Rank in contrast gu

-20000

-15000

Sensory perception of sweet, bitter, and umami (



TICAM1,TRAF6-dependent induction of TAK1 complex



TICAM1,TRAF6-dependent induction of TAK1 complex



Rank in contrast bl

TICAM1, TRAF6-dependent induction of TAK1 co



Competing endogenous RNAs (ceRNAs) regulate PTEN trans



Competing endogenous RNAs (ceRNAs) regulate PTEN translation



Rank in contrast bl

Competing endogenous RNAs (ceRNAs) regulat


Glucuronidation



Glucuronidation



Rank in contrast bl

Glucuronidation



SCF(Skp2)-mediated degradation of p27/p21





SCF(Skp2)-mediated degradation of p27/p21

Rank in contrast bl

SCF(Skp2)-mediated degradation of p27/p21



GSK3B and BTRC:CUL1-mediated-degradation of NFE2



GSK3B and BTRC:CUL1-mediated-degradation of NFE2L2



Rank in contrast bl

GSK3B and BTRC:CUL1-mediated-degradation



APC/C:Cdc20 mediated degradation of Cyclin B



APC/C:Cdc20 mediated degradation of Cyclin B



APC/C:Cdc20 mediated degradation of Cyclin B



Peptide chain elongation



Rank in contrast bl

Peptide chain elongation



Peptide chain elongation



PINK1-PRKN Mediated Mitophagy



PINK1-PRKN Mediated Mitophagy



Rank in contrast bl

PINK1–PRKN Mediated Mitophagy



Eukaryotic Translation Termination



Rank in contrast bl

Eukaryotic Translation Termination



Eukaryotic Translation Termination



Ubiquitin Mediated Degradation of Phosphorylated Cdc2



Ubiquitin Mediated Degradation of Phosphorylated Cdc25A



Rank in contrast bl

Ubiquitin Mediated Degradation of Phosphorylate



p53–Independent DNA Damage Response





p53–Independent DNA Damage Response

Rank in contrast bl

p53–Independent DNA Damage Response



p53–Independent G1/S DNA damage checkpoint





p53–Independent G1/S DNA damage checkpoint

Rank in contrast bl

p53–Independent G1/S DNA damage checkpoin



Sensory perception of taste



Sensory perception of taste



Sensory perception of taste



Autodegradation of Cdh1 by Cdh1:APC/C



Autodegradation of Cdh1 by Cdh1:APC/C



Autodegradation of Cdh1 by Cdh1:APC/C


Hh mutants are degraded by ERAD



Rank in contrast bl



Hh mutants are degraded by ERAD

Rank in contrast bl

Hh mutants are degraded by ERAD



Eukaryotic Translation Elongation



Rank in contrast bl

Eukaryotic Translation Elongation



Eukaryotic Translation Elongation



Autodegradation of the E3 ubiquitin ligase COP1



Autodegradation of the E3 ubiquitin ligase COP1



Autodegradation of the E3 ubiquitin ligase COP1



The role of GTSE1 in G2/M progression after G2 checkpo



The role of GTSE1 in G2/M progression after G2 checkpoint



Rank in contrast bl

The role of GTSE1 in G2/M progression after G2



Ubiquitin-dependent degradation of Cyclin D





Ubiquitin-dependent degradation of Cyclin D

Rank in contrast bl

Ubiquitin-dependent degradation of Cyclin D



Viral mRNA Translation



Rank in contrast bl

Viral mRNA Translation



Viral mRNA Translation



Selenocysteine synthesis



Selenocysteine synthesis



Rank in contrast bl

Selenocysteine synthesis



Vpu mediated degradation of CD4





Vpu mediated degradation of CD4

Rank in contrast bl

Vpu mediated degradation of CD4



TICAM1, RIP1-mediated IKK complex recruitment





TICAM1, RIP1-mediated IKK complex recruitment

Rank in contrast bl

TICAM1, RIP1-mediated IKK complex recruitme



Stabilization of p53



Rank in contrast bl

Stabilization of p53



Rank in contrast bl

Stabilization of p53



AUF1 (hnRNP D0) binds and destabilizes mRNA





AUF1 (hnRNP D0) binds and destabilizes mRNA

Rank in contrast bl

AUF1 (hnRNP D0) binds and destabilizes mRNA



Negative regulation of NOTCH4 signaling



Rank in contrast bl

Negative regulation of NOTCH4 signaling



Negative regulation of NOTCH4 signaling




SCF-beta-TrCP mediated degradation of Emi1



SCF-beta-TrCP mediated degradation of Emi1

Rank in contrast bl

SCF-beta-TrCP mediated degradation of Emi1



gulation of activated PAK-2p34 by proteasome mediated dec



Regulation of activated PAK-2p34 by proteasome mediated degradation



Regulation of activated PAK-2p34 by proteasom





SXL7 down–regulates AURKA during mitotic entry and in early

FBXL7 down-regulates AURKA during mitotic entry and in early mitosis



FBXL7 down-regulates AURKA during mitotic er



Condensation of Prometaphase Chromosomes



Condensation of Prometaphase Chromosomes



Rank in contrast bl

Condensation of Prometaphase Chromosomes



APC/C:Cdc20 mediated degradation of Securin



APC/C:Cdc20 mediated degradation of Securin



APC/C:Cdc20 mediated degradation of Securin



Mitochondrial iron-sulfur cluster biogenesis



Mitochondrial iron-sulfur cluster biogenesis



Mitochondrial iron-sulfur cluster biogenesis



Mitophagy



Mitophagy



Rank in contrast bl





Aspirin ADME



Rank in contrast bl

Aspirin ADME



Rank in contrast bl

Aspirin ADME



Response of EIF2AK4 (GCN2) to amino acid deficiency



Response of EIF2AK4 (GCN2) to amino acid deficiency



Rank in contrast bl

Response of EIF2AK4 (GCN2) to amino acid def



se Mediated Decay (NMD) independent of the Exon Junction (





onsense Mediated Decay (NMD) independent of the Exon Junction Complex

Nonsense Mediated Decay (NMD) independent of



Digestion



Rank in contrast bl

Digestion



Rank in contrast bl



contrast

CASP8 activity is inhibited



CASP8 activity is inhibited



CASP8 activity is inhibited


Dimerization of procaspase–8



Dimerization of procaspase-8



Rank in contrast bl

Rank in contrast gu

Dimerization of procaspase-8



Regulation by c-FLIP



Rank in contrast bl

Regulation by c-FLIP



Regulation by c-FLIP



Vif-mediated degradation of APOBEC3G





Vif-mediated degradation of APOBEC3G

Rank in contrast bl

Rank in contrast gu

Vif-mediated degradation of APOBEC3G



d degradation of Cdc20 and other APC/C:Cdh1 targeted prote





nediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in la

Rank in contrast bl

APC/C:Cdh1 mediated degradation of Cdc20 and



RIPK1-mediated regulated necrosis





RIPK1-mediated regulated necrosis

Rank in contrast bl

Rank in contrast gu

RIPK1-mediated regulated necrosis

