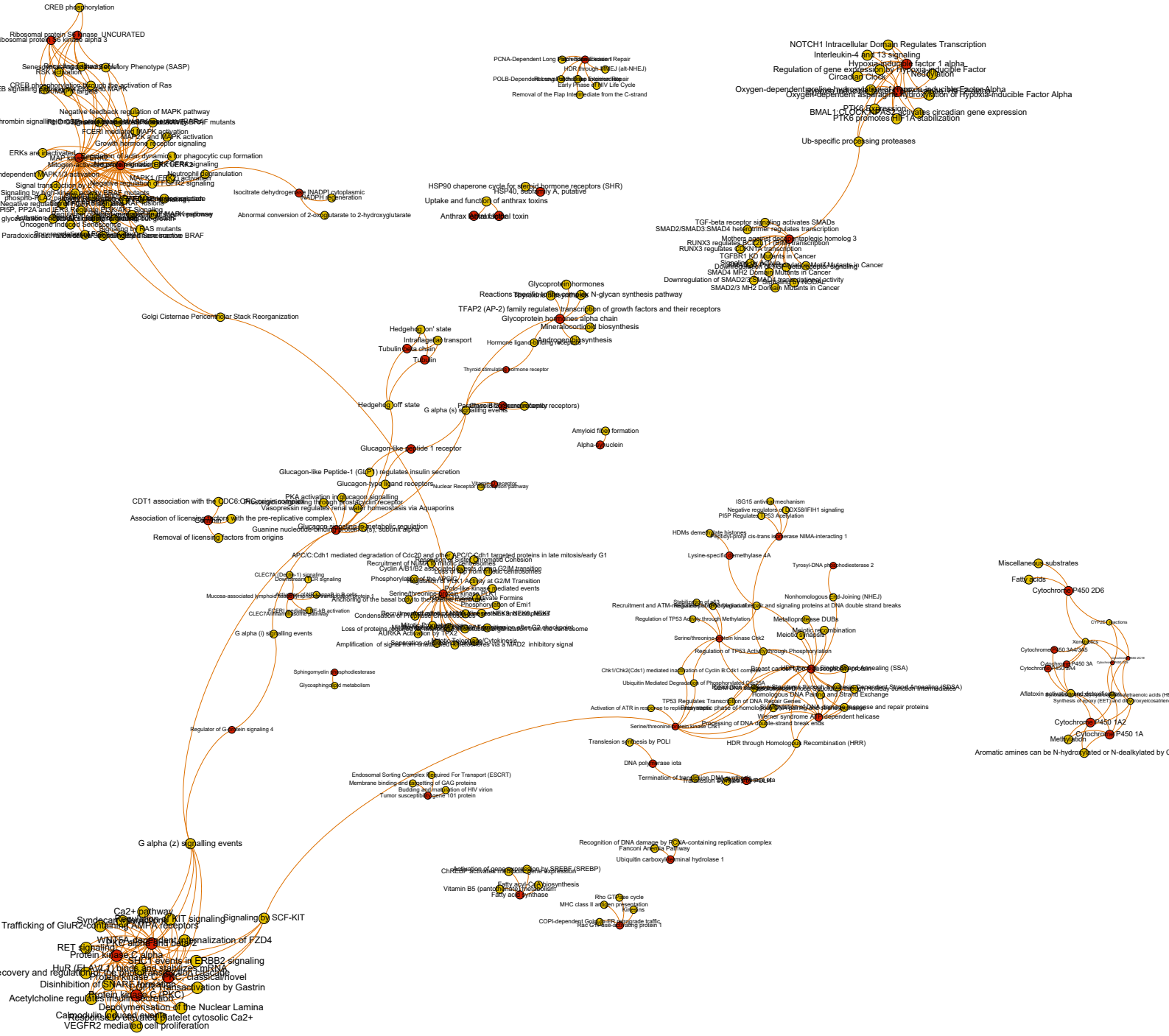
CREB phosphorylation
Ribosomal protein S6 kinase, UNCURATED
Senescence-Associated Secretory Phenotype (SASP)
Negative feedback regulation of MAPK pathway
Growth hormone receptor signaling
ERKs are inactivated
Oncogene Induced Senescence
Signaling by RAS mutants
Golgi Cisternae Pericentriolar Stack Reorganization
Isocitrate dehydrogenase (NADP), cytoplasmic
NADPH regeneration
Abnormal conversion of 2-oxoglutarate to 2-hydroxyglutarate
PCNA-Dependent Long Patch Base Excision Repair
HDR through MMEJ (alt-NHEJ)
POLB-Dependent Long Patch Base Excision Repair
Early Phase of HIV Life Cycle
Removal of the Flap Intermediate from the C-strand
NOTCH1 Intracellular Domain Regulates Transcription
Interleukin-4 and 13 signaling
Hypoxia-induced factor 1 alpha
Regulation of gene expression by Hypoxia-inducible Factor
Circadian Clock
Oxygen-dependent proline hydroxylation of Hypoxia-inducible Factor Alpha
Oxygen-dependent asparagine hydroxylation of Hypoxia-inducible Factor Alpha
PTK6 Expression
BMAL1:CLOCK,NPAS2 activates circadian gene expression
PTK6 promotes HIF-1A stabilization
Ub-specific processing proteases
HSP90 chaperone cycle for steroid hormone receptors (SHR)
HSP40, sabratin, DnaJ A, putative
Uptake and functional effects of anthrax toxins
Anthrax toxin
TGF-beta receptor signaling activates SMADs
SMAD2/SMAD3:SMAD4 heterotrimer regulates transcription
Mothers against decapentaplegic homolog 3
RUNX3 regulates CDKN1A transcription
TGFBR1 KD Mutants in Cancer
SMAD4 MH2 Domain Mutants in Cancer
Downregulation of SMAD2/3:SMAD4 transcriptional activity
SMAD2/3 MH2 Domain Mutants in Cancer
Glycoprotein hormones
Reactions specific to the complex N-glycan synthesis pathway
TFAP2 (AP-2) family regulates transcription of growth factors and their receptors
Glycoprotein hormone alpha chain
Mineralocorticoid biosynthesis
Androgen biosynthesis
Hedgehog 'on' state
Intraflagellar transport
Tubulin alpha chain
Tubulin
Thyroid stimulating hormone receptor
Hedgehog 'off' state
G alpha (s) signalling events
Amyloid fiber formation
Alpha-synuclein
Glucagon-like peptide 1 receptor
Glucagon-like Peptide-1 (GLP-1) regulates insulin secretion
Glucagon-type ligand receptors
PKA activation in glucagon signalling
Vasopressin regulates renal water homeostasis via Aquaporins
CDT1 association with the CDC6:ORC:origin complex
Association of licensing factor with the pre-replicative complex
Removal of licensing factors from origins
Guanine nucleotide-binding protein (G), subunit alpha
APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1
Cyclin A/B1/B2 associated events during G2/M transition
Phosphorylation of the APC/C
Cdc25 and CHK1 Action at G2/M Transition
Polo-like kinase mediated events
Mitotic Prometaphase
Condensation of Prophase Chromosomes
Loss of proteins required for interphase microtubule organization from the centrosome
AURKA Activation by TPX2
Amplification of signal from the kinetochores
Separase activation and Cytokinesis
G alpha (i) signalling events
Sphingomyelin phosphodiesterase
Glycosphingolipid metabolism
Regulator of G-protein signaling 4
Endosomal Sorting Complex Required For Transport (ESCRT)
Membrane binding and targeting of GAG proteins
Budding and maturation of HIV virion
Tumor susceptibility gene 101 protein
ISG15 antiviral mechanism
Negative regulators of DDX58/IFIH1 signaling
PIP5P Regulates TP53 Acetylation
HDMs demethylate histones
epoxy-propyl cis-trans isomerase NIMA-interacting 1
Lysine-specific demethylase 4A
Tyrosyl-DNA phosphodiesterase 2
Nonhomologous End-Joining (NHEJ)
Recruitment and ATM-mediated phosphorylation of repair and signaling proteins at DNA double strand breaks
Regulation of TP53 Activity through Methylation
Metalloprotease DUBs
Meiotic recombination
Meiotic synapsis
Serine/threonine-protein kinase Chk2
Regulation of TP53 Activity through Phosphorylation
Chk1/Chk2(Cds1) mediated inactivation of Cyclin B:Cdk1 complex
Ubiquitin Mediated Degradation of Phosphorylated Cdc25A
Homologous DNA Pairing and Strand Exchange
TP53 Regulates Transcription of DNA Repair Genes
Activation of ATR in response to replication stress
Werner syndrome ATP-dependent helicase
Processing of DNA double-strand break ends
Translesion synthesis by POLI
HDR through Homologous Recombination (HRR)
DNA polymerase iota
Termination of translesion DNA synthesis
Miscellaneous substrates
Fatty acids
Cytochrome P450 2D6
Cytochrome P450 3A4/5/7
Cytochrome P450 3A
Cytochrome P450 4A4
Aflatoxin activation and detoxification
Synthesis of epoxy (EET) and dihydroxyeicosatrienoic acids (HETE)
Cytochrome P450 1A2
Cytochrome P450 1A
Methylation
Aromatic amines can be N-hydroxylated or N-dealkylated by CYP
G alpha (z) signalling events
Recognition of DNA damage by PCNA-containing replication complex
Fanconi Anemia Pathway
Ubiquitin carboxyl-terminal hydrolase 1
Activation of gene expression by SREBF (SREBP)
Fatty acyl-CoA biosynthesis
Vitamin B5 (pantothenate) metabolism
Fatty acid synthesis
Rho GTPase cycle
MHC class II antigen presentation
Kinesins
COPI-dependent Golgi-to-ER retrograde traffic
Rab GTPase binding protein 1
Ca2+ pathway
Syndecan-4-mediated signaling events
Signaling by SCF-KIT
Trafficking of GluR2-containing AMPA receptors
WNK/SPAK/OSR1 activation
Internalization of FZD4
RET signaling
Protein kinase C alpha
SHC1 events in ERBB2 signaling
HuR (ELAVL1) binds and stabilizes mRNA
Protein kinase C, Classical/novel
Disinhibition of SNARE formation
Protein kinase C (PKC)
Acetylcholine regulates insulin secretion
Depolymerization of the Nuclear Lamina
Calmodulin induced events
Response to elevated platelet cytosolic Ca2+
VEGFR2 mediated cell proliferation