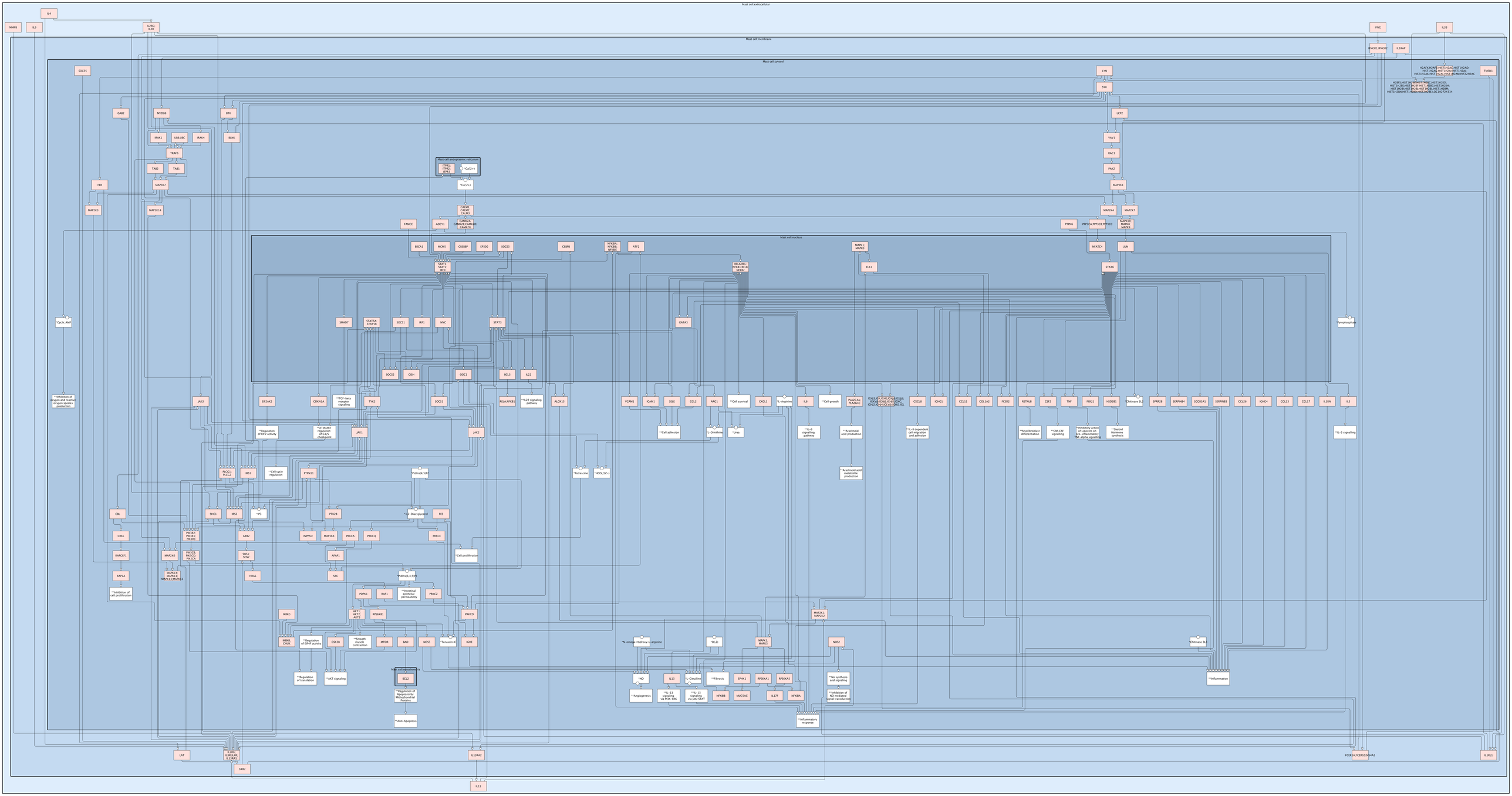
Mast cell extracellular
IL4
MMP8
IL9
IL2RG; IL4R
IFNG
IL33
Mast cell membrane
IFNGR1;IFNGR2
IL1RAP
TMED1
Mast cell cytosol
SOCS5
LYN
SYK
GAB2
MYD88
BTK
LCP2
IRAK1
UBB;UBC
IRAK4
BLNK
VAV1
TRAF6
RAC1
TAB2
TAB1
PAK2
FER
MAP3K7
MAP3K1
MAP2K3
MAP3K14
MAP2K4
MAP2K7
FANCC
ADCY1
PTPN6
PPP3CA;PPP3CB;PPP3CC
MAPK10; MAPK8; MAPK9
Mast cell endoplasmic reticulum
ITPR1; ITPR2; ITPR3
Mast cell nucleus
BRCA1
MCM5
CREBBP
EP300
SOCS3
CEBPB
NFKBIA; NFKBIB; NFKBIE
ATF2
MAPK1; MAPK3
NFATC4
JUN
STAT1; STAT2; IRF7
RELA;REL; NFKB1; NFKB2
ELK1
STAT6
SMAD7
STAT5A; STAT5B
SOCS1
IRF1
MYC
STAT3
GATA3
SOCS2
CISH
ODC1
BCL3
IL22
JAK3
EIF2AK2
CDKN1A
TYK2
JAK1
JAK2
RELA;NFKB1
IL22 signaling pathway
ALOX15
VCAM1
ICAM1
SELE
CCL2
ARG1
Cell survival
CXCL1
L-Arginine
IL6
Cell growth
PLA2G4A; PLA2G4C
IGHE;IGK;IGHG1;IGHG2;IGLL5;IGKV1D-8;IGHV3-9;IGKV3;IGKC;IGHD2-Y;IGHJ4;IGLV10;IGHE3;IGL
CXCL8
ICAM1
CCL11
COL1A2
FCER2
RETNLB
CSF2
TNF
FOXJ1
HSD3B1
Chitinase 3L1
SPINK2B
SERPINB4
SCGB3A1
SERPINB3
CCL26
IGHG4
CCL23
CCL17
IL18N
IL5
Cyclic AMP
Pyrophosphate
Inhibition of oxygen and reactive oxygen species production
Regulation of E2F2 activity
ATM/ATR/ST mediated activation of CL1.5 checkpoint
TGF-beta receptor signaling
Cell adhesion
L-Ornithine
Urea
IL-6 signaling pathway
Arachnoid acid production
IL-6 dependent cell migration and adhesion
Myofibroblast differentiation
CM-CSF signaling
Inhibitory action of lipoxins on pro-inflammatory TNF-alpha signalling
Steroid Hormone synthesis
IL-5 signalling
PLCG1; PLCG2
IRS1
Cell cycle regulation
PTPN11
PtdIns(4,5)P2
Putrescine
HCO(-,3)(-)
Arachnoid acid metabolite production
CBL
SHC1
IRS2
IP3
PTK2B
PI3,4-Diacylglycerol
FES
CRKL
PIK3R2; PIK3R1; PIK3R3
GRB2
INPP5D
MAP3K4
PRKCA
PRKCQ
PRKCE
Cell proliferation
RAPGEF1
MAP2K6
PIK3CB; PIK3CA; PIK3CA
SOS1; SOS2
AFAP1
RAP1A
MAPK14; MAPK11; MAPK13; MAPK12
HRAS
SRC
PtdIns(3,4,5)P3
Inhibition of cell proliferation
PDPK1
RAF1
Intestinal epithelial permeability
PRKCZ
IKBKG
AKT1; AKT2; AKT3
RPS6KB1
PRKCD
MAP2K1; MAP2K2
IKBKB; CHUK
Regulation of EIF4F activity
CDK1B
Smooth muscle contraction
MTOR
BAD
NOS3
Tenascin-C
ICAM1
N-omega-Hydroxy-L-arginine
O(2,2)
MAPK1; MAPK3
NOS2
Chitinase 3L
Regulation of translation
AKT signaling
Mast cell apoptosis
BCL2
Regulation of Bcl-2 family Mitochondrial Proteins
Anti-Apoptosis
NO
IL13
L-Citrulline
Fibrosis
SPINK1
RPS6KA1
RPS6KA5
Inflammation
Angiogenesis
IL-13 signaling via PI3K-ERK
IL-13 signaling via JAK-STAT
NFKBB
MUC5AC
IL17F
NFKBIA
Nos synthesis and signaling
Inhibition of NO mediated signal transduction
Inflammatory response
LAT
IL2RG; IL9R; IL4R; IL13RA1
GRB2
IL13RA2
IL13
FCER1A;FCER1G;MS4A2
IL18R1