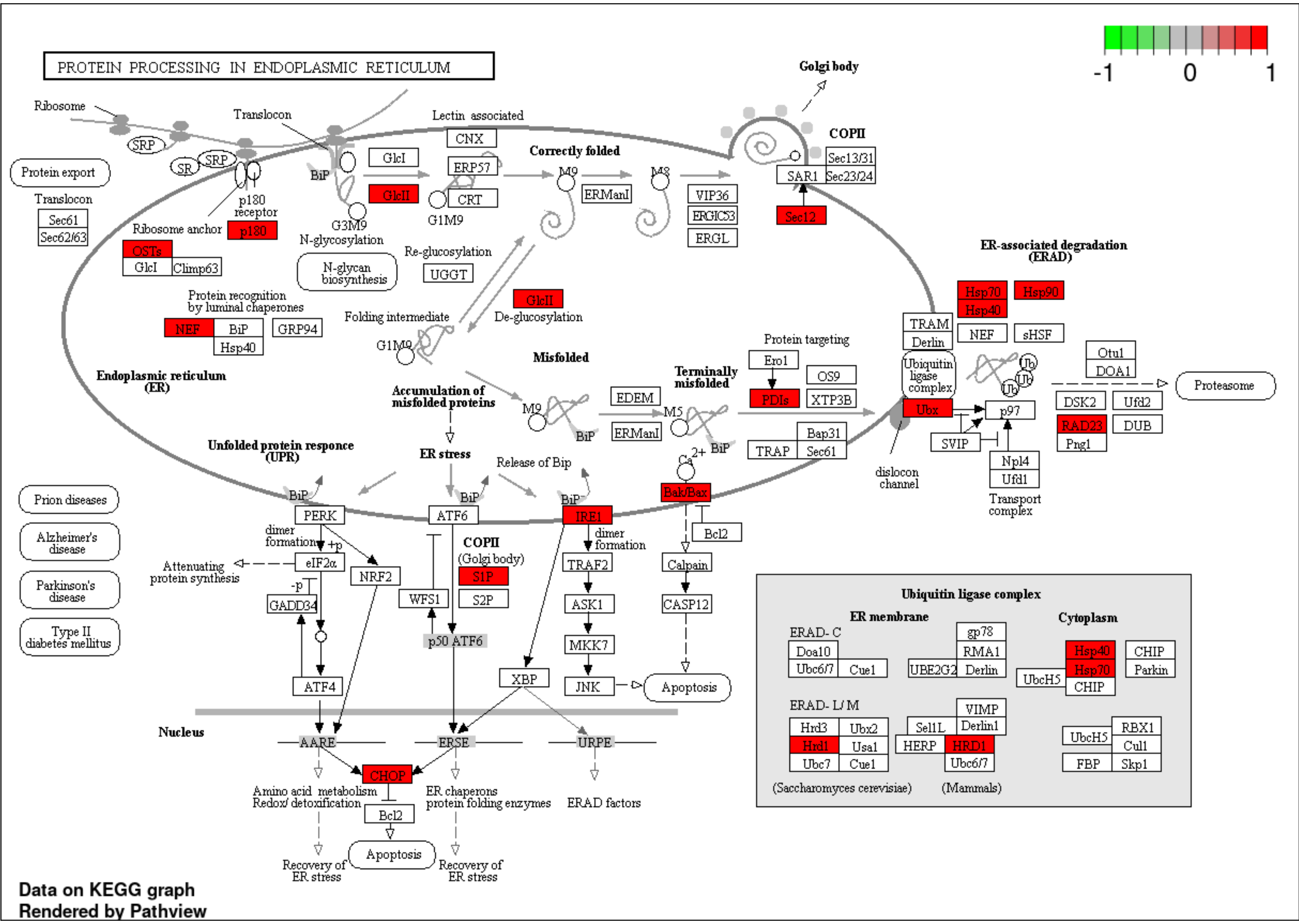
Hypothalamus
KEGG Pathway Enrichment: Genes that are induced by reproductive experience (higher in primiparous)
Protein Processing in Endoplasmic Reticulum
Enrichment FDR: 2.2E-02
Genes in list are highlighted in red


PROTEIN PROCESSING IN ENDOPLASMIC RETICULUM
-1
0
1
Golgi body
Ribosome
SRP
SR
Translocon
Lectin associated
CNX
GlcI
ERP57
GlcII
CRT
Correctly folded
M9
M8
ERManI
VIP36
ERGIC53
ERGL
COPII
SAR1
Sec13/31
Sec23/24
Sec12
Protein export
Translocon
Sec61
Sec62/63
p180 receptor
p180
Ribosome anchor
OSTs
GlcI
Climp63
BiP
G3M9
N-glycosylation
G1M9
N-glycan biosynthesis
Re-glucosylation
UGGT
De-glucosylation
Protein recognition by luminal chaperones
NEF
BiP
Hsp40
GRP94
Folding intermediate
G1M9
Endoplasmic reticulum (ER)
Misfolded
Accumulation of misfolded proteins
M9
BiP
EDEM
ERManI
M5
BiP
Terminally misfolded
Protein targeting
Ero1
PDIs
OS9
XTP3B
TRAP
Bap31
Sec61
ER-associated degradation (ERAD)
Hsp70
Hsp40
Hsp90
TRAM
Derlin
NEF
sHSF
Ubiquitin ligase complex
Ub
Ubx
p97
SVIP
Npl4
Ufd1
Transport complex
dislocon channel
Otu1
DOA1
DSK2
Ufd2
RAD23
DUB
Png1
Proteasome
Unfolded protein responce (UPR)
ER stress
Release of Bip
$Ca^{2+}$
Bak/Bax
Bcl2
Prion diseases
Alzheimer's disease
Parkinson's disease
Type II diabetes mellitus
BiP
PERK
dimer formation
+p
eIF2α
Attenuating protein synthesis
-p
GADD34
NRF2
ATF4
ATF6
WFS1
COPII (Golgi body)
S1P
S2P
p50 ATF6
IRE1
dimer formation
TRAF2
ASK1
MKK7
JNK
XBP
Calpain
CASP12
Apoptosis
Nucleus
AARE
ERSE
URPE
CHOP
Amino acid metabolism Redox/ detoxification
ER chaperons protein folding enzymes
ERAD factors
Bcl2
Apoptosis
Recovery of ER stress
Recovery of ER stress
Ubiquitin ligase complex
ER membrane
ERAD- C
Doa10
Ubc6/7
Cue1
gp78
RMA1
UBE2G2
Derlin
ERAD- L/ M
Hrd3
Ubx2
Hrd1
Usa1
Ubc7
Cue1
VIMP
Sel1L
Derlin1
HERP
HRD1
Ubc6/7
(Saccharomyces cerevisiae)
(Mammals)
Cytoplasm
Hsp40
Hsp70
CHIP
CHIP
Parkin
UbcH5
UbcH5
RBX1
Cul1
FBP
Skp1
Data on KEGG graph
Rendered by Pathview