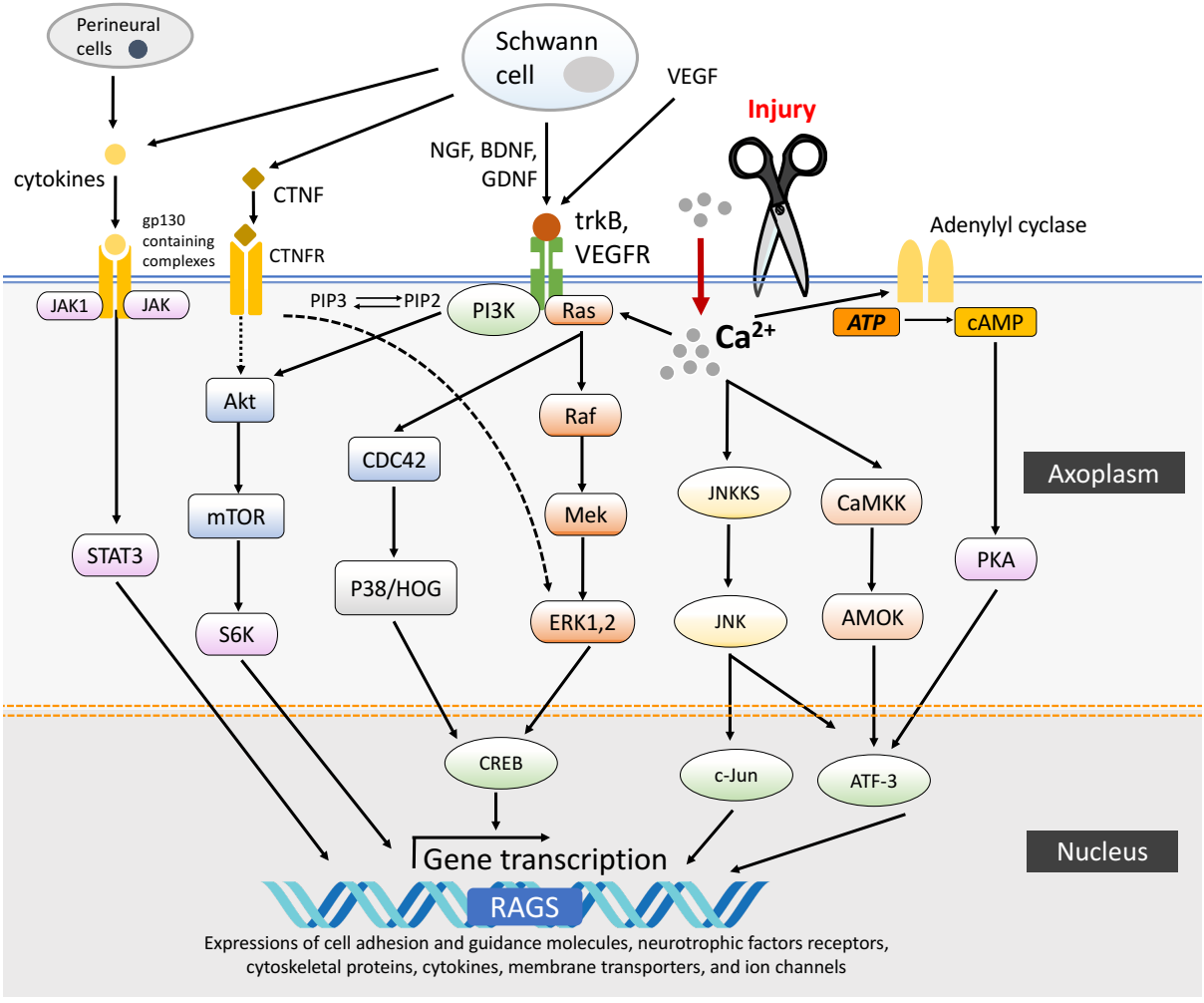
Perineural cells
Schwann cell
VEGF
Injury
cytokines
CTNF
NGF, BDNF, GDNF
trkB, VEGFR
Adenylyl cyclase
gp130 containing complexes
CTNFR
JAK1
JAK
PIP3
PIP2
PI3K
Ras
Ca2+
ATP
cAMP
Akt
Raf
CDC42
JNKKS
CaMKK
Axoplasm
mTOR
Mek
STAT3
P38/HOG
PKA
S6K
ERK1,2
JNK
AMOK
CREB
c-Jun
ATF-3
Gene transcription
Nucleus
RAGS
Expressions of cell adhesion and guidance molecules, neurotrophic factors receptors, cytoskeletal proteins, cytokines, membrane transporters, and ion channels