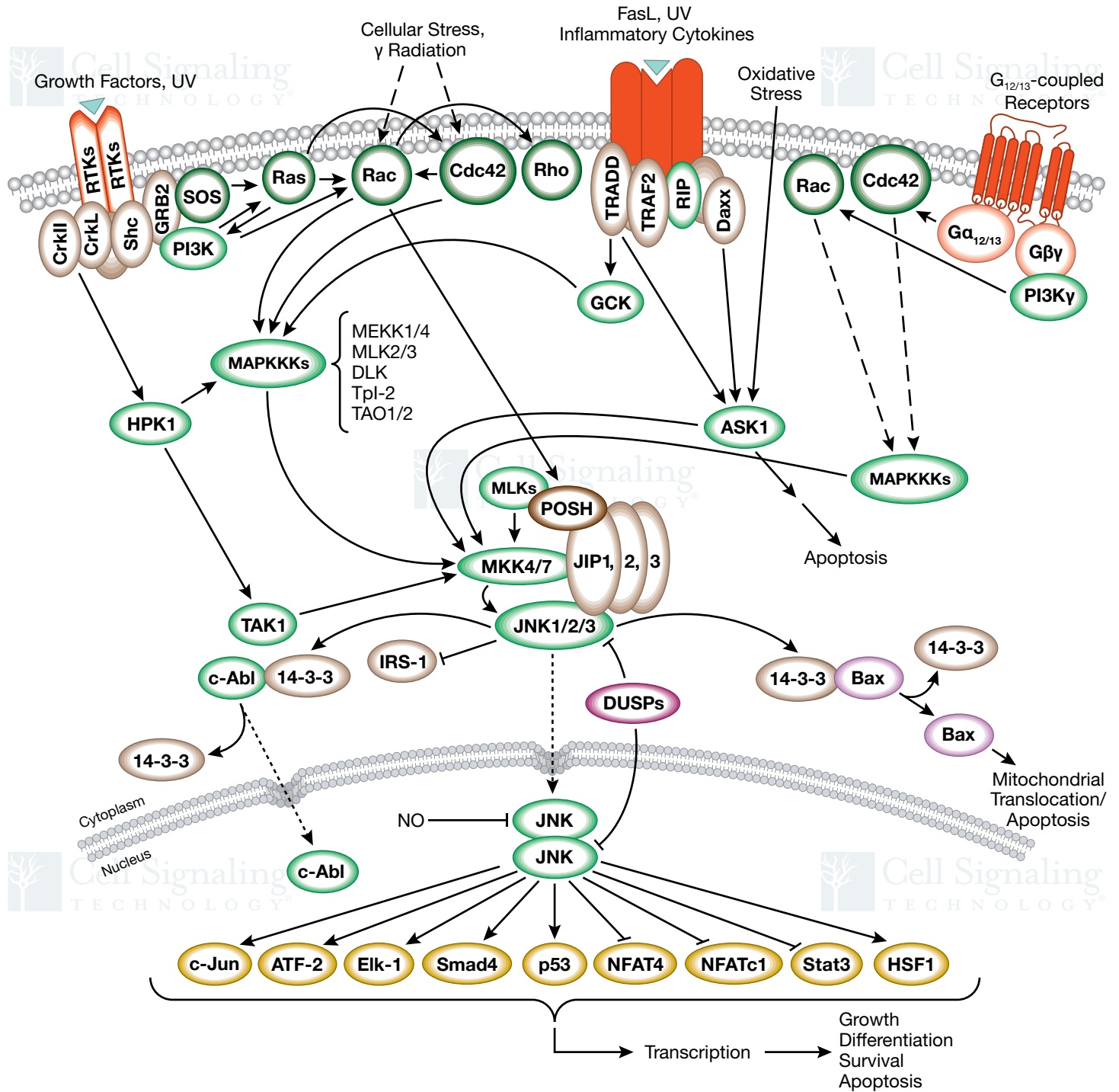




SAPK / JNK Signaling



Pathway Diagram Key

Acetylase	Apoptosis/Autophagy Regulator	Deacetylase or Cytoskeletal Protein	GTPase/GAP/GEF	Metabolic Enzyme	Phosphatase	Ubiquitin/SUMO Ligase or Deubiquitinase	Receptor
Adaptor	Cell Cycle Regulator	Growth Factor/Cytokine/Development Protein	Kinase	Methyltransferase or G-protein	Protein Complex	Transcription Factor or Translation Factor	Other
— Direct Process		- - - Tentative Process	- - - - - Translocation Process	→ Stimulatory Modification	— Inhibitory Modification	— Transcriptional Modification	