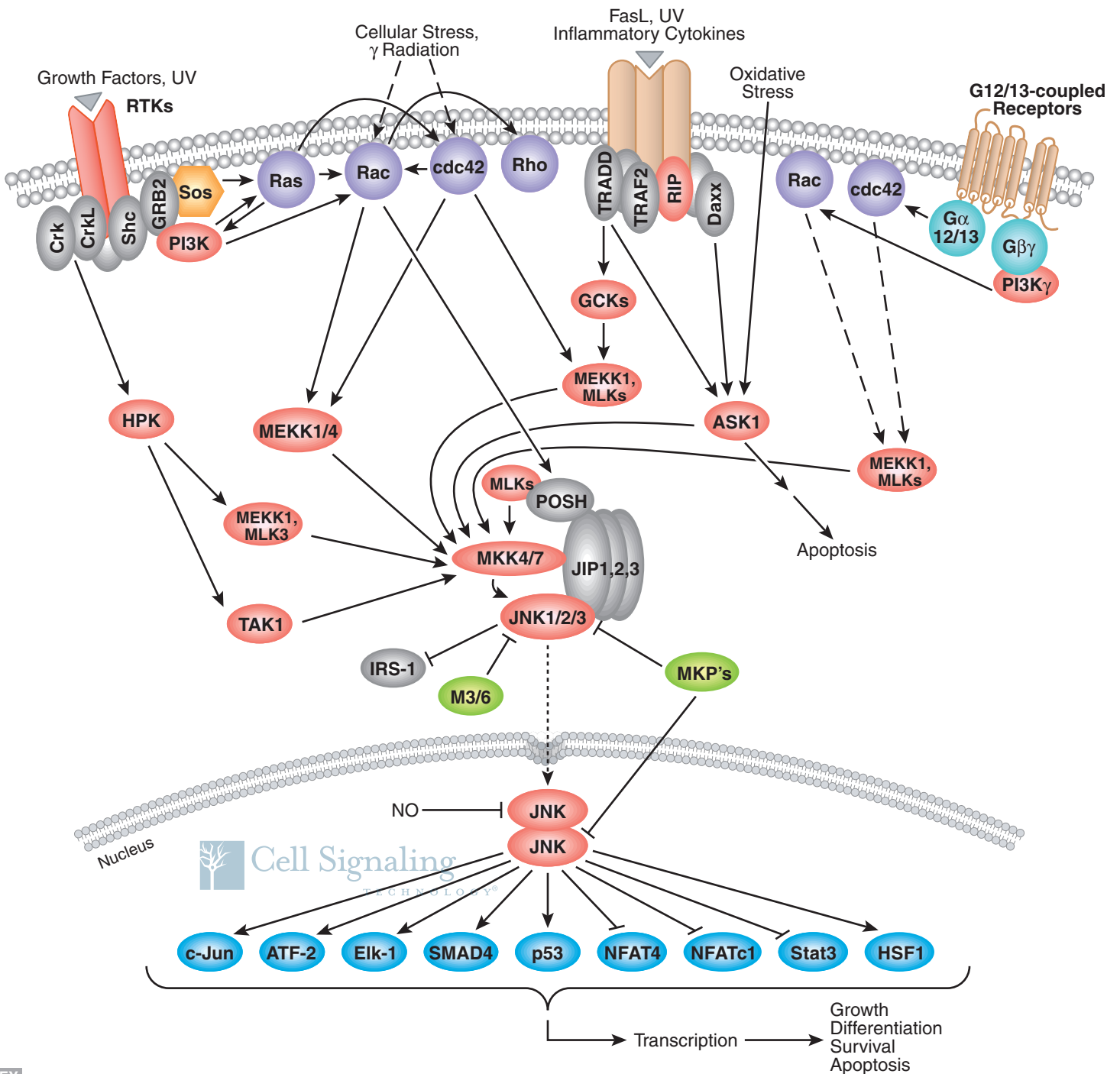


### SAPK/JNK Signaling Cascades



**KEY**

	Kinase		Direct Stimulatory Modification		Transcriptional Stimulation
	Phosphatase		Direct Inhibitory Modification		Transcriptional Inhibition
	Transcription Factor		Multistep Stimulatory Modification		Translocation
			Multistep Inhibitory Modification		Separation of Subunits or Cleavage Products
			Tentative Stimulatory Modification		Joining of Subunits
			Tentative Inhibitory Modification		