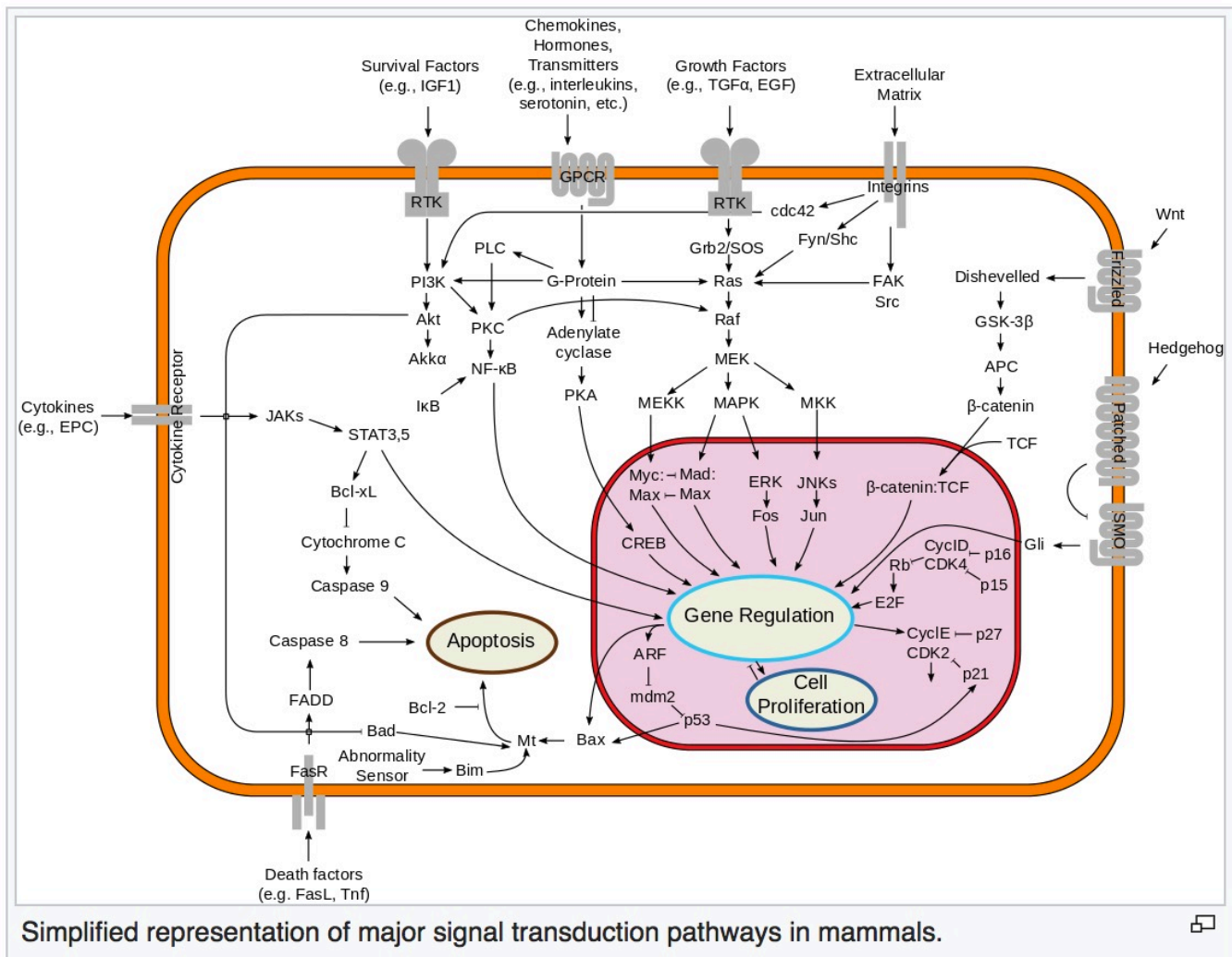


Signal transducer and activator of transcription 5 (**STAT5**) refers to two highly related proteins, STAT5A and STAT5B, which are part of the seven-membered STAT family of proteins. Though STAT5A and STAT5B are encoded by separate genes, the proteins are 90% identical at the amino acid level.

STAT5 proteins are involved in cytosolic signalling and in mediating the expression of specific genes.

Aberrant STAT5 activity has been shown to be closely connected to a wide range of human cancers, and silencing this aberrant activity is an area of active research in medicinal chemistry.



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