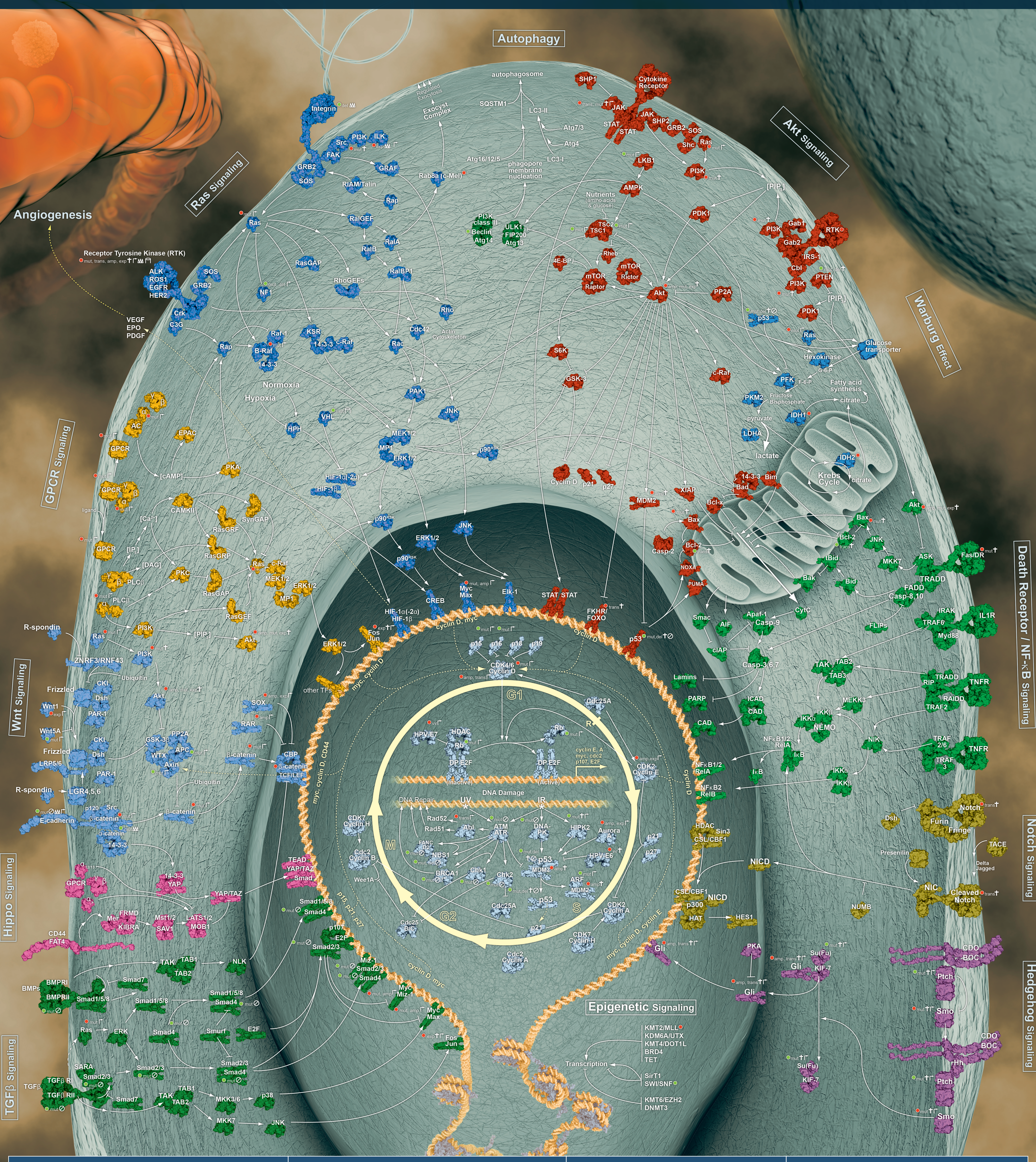


# Pathways in Human Cancer



<p><b>Ras</b> Common protein name</p> <p>Structural representative from PDB</p>	<p>○ oncogene</p> <p>● tumor suppressor</p>	<p>mut Type of genetic alteration</p> <p>† Type of conferred capability</p>	<p>→ Direct stimulatory modification</p> <p>→ Direct inhibitory modification</p> <p>→ Multistep stimulatory modification</p>	<p>--- Tentative stimulatory modification</p> <p>--- Transcriptional contribution</p>	<p><b>TYPES OF GENETIC ALTERATIONS:</b></p> <p>mut Point mutation</p> <p>amp Amplification</p> <p>trans Translocation</p> <p>del Deletion</p> <p>vir Viral infection</p> <p>exp Increased expression (unknown mechanism)</p>	<p><b>TYPES OF CONFERRED CAPABILITIES:</b></p> <p>† Evading apoptosis</p> <p>‡ Self-sufficiency in growth signals</p> <p>○ Insensitivity to anti-growth signals</p> <p>∞ Limitless replicative potential</p> <p>⊞ Tissue invasion &amp; metastasis</p> <p>⊞ Sustained angiogenesis</p>
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