## Pathways in Human Cancer

The *Pathways in Human Cancer* poster summarizes some of the key signaling pathways implicated in tumorigenesis and tumor progression in humans. Within each pathway, gene products known to be mutated in human tumors—oncogenes and tumor suppressor genes—are coded with information on types of genetic alterations and conferred capabilities to the tumor. Proteins are shown using structural representatives. New to this revised poster edition are signaling pathways for Hippo Signaling, Autophagy, Warburg Effect, and Epigenetic Regulation.



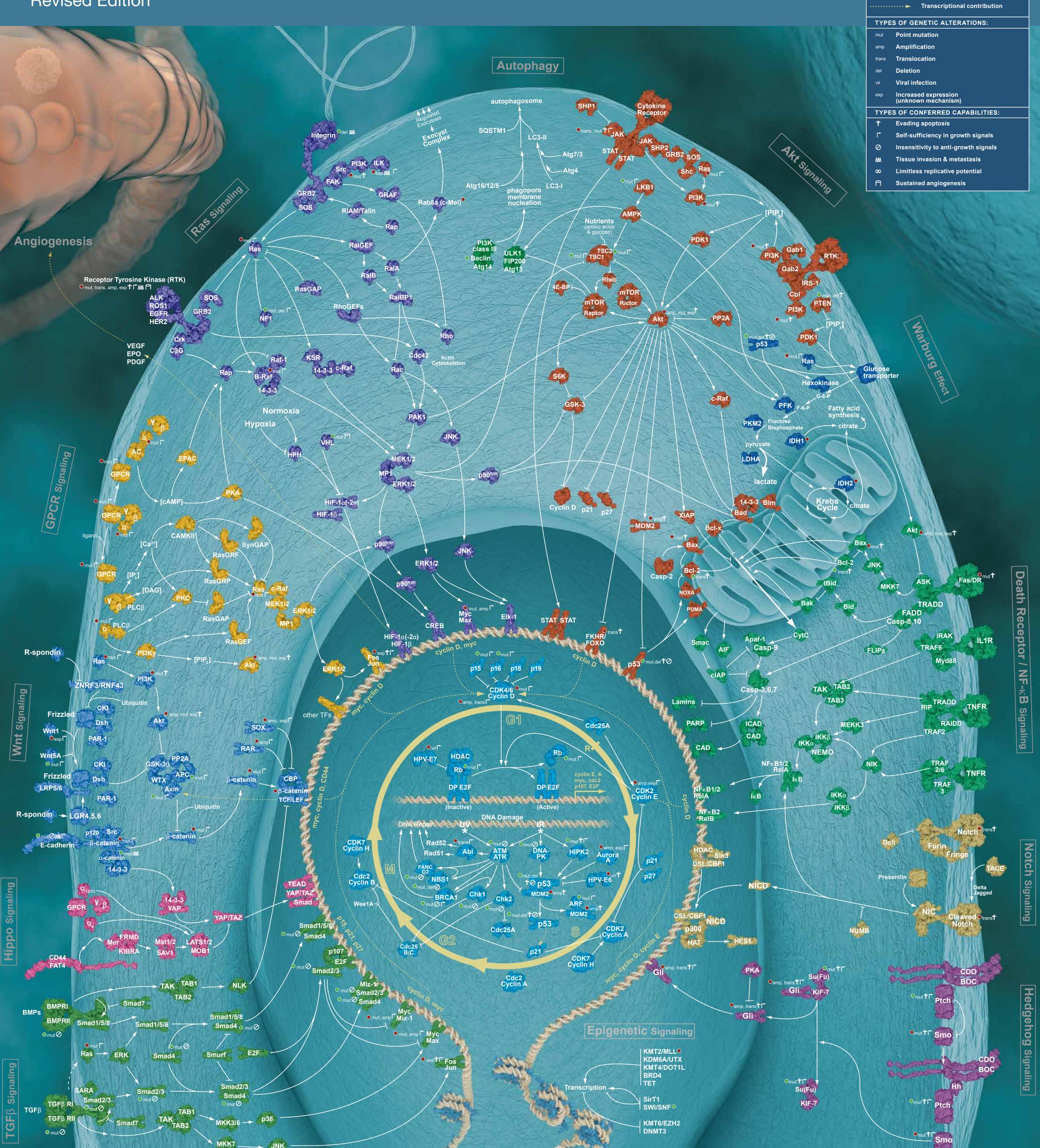
- mut Type of genetic alteration
  - **Direct stimulatory modification**

Type of conferred capability

**Direct inhibitory modification** 

Ras Common protein name

- **Transcriptional contribution**



This poster was created by scientists at Cell Signaling Technology in collaboration with Robert A. Weinberg and others at the forefront of cancer research. Expanded versions of each pathway, including additional downstream signaling nodes, can be found at www.cellsignal.com/CSTcancer

Cell Signaling Technology would like to thank digizyme for their collaboration on the design and concept of this poster. Please visit www.digizyme.com to see more of their work.

This poster accompanies the textbook The Biology of Cancer, Second Edition by Robert A. Weinberg and published by Garland Science. Dr. Weinberg is a founding member of the Whitehead Institute for Biomedical Research and the Daniel K. Ludwig Professor of Cancer Research at the Massachusetts Institute of Technology.

