



# The Molecular Basis of Cell Cycle and Growth Control

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Recent advances in our understanding of the biochemical and molecular mechanisms of cell growth and control have led to sensational breakthroughs in the diagnosis and treatment of proliferative and neoplastic diseases. As a consequence, cell growth and regulation has become a subject of vital interest to basic researchers and clinicians alike. Unfortunately, as the world literature on the subject continues to grow at an exponential rate, it becomes increasingly difficult for concerned professionals to keep abreast of the important new developments and emerging trends in the field. Never has the need for authoritative reviews such as this been greater. Comprising contributions by an international team of scientists at the forefront of one of today's liveliest areas of biomedical research, The Molecular Basis of Cell Cycle and Growth Control reports on the state of the science in cell growth and regulation from conceptual, experimental, and clinical perspectives. Written at a level that will appeal to professionals as well as graduate and medical students, it explores a wide range of related topics, with an emphasis on the identification of checkpoints and restriction points and the mechanisms of proliferation competency and cell cycle progression, including: DNA replication and S phase. Mitosis and meiosis. Gene expression and gene regulatory mechanisms. Signal transduction and integration of regulatory information. Differentiation, development, and programmed cell death. Cellular senescence and immortalization. The Molecular Basis of Cell Cycle and Growth Control is an indispensable working resource for biomedical researchers, cell biologists, molecular biologists, biochemists, developmental biologists, molecular geneticists, molecular oncologists, cancer biologists, immunologists, and molecular pathologists.

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