



Cell Cycle Regulation (Cell biology)

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Cell Cycle Regulation describes the interaction of the nuclear genome, the cytoplasmic pools, the organelles, the cell surface, and the extracellular environment that govern the cell cycle regulation. Comprised of 12 chapters, this book includes cell cycle regulation around nuclear chromatin modulation and some aspects of chromatin modification and its effects on gene expression.

The opening chapters describe the macromolecular structure of chromatin subunits and the types and kinds of postsynthetic modifications occurring on histones, such as acetylation, methylation, and phosphorylation. The subsequent chapter deals extensively on histone phosphorylation, especially histone H1, H1M, H2A, and H3, during the cell cycle. Another chapter describes a selective histone leakage from nuclei during isolation accounting for the role of histone acetylation and phosphorylation in gene expression. This book goes on examining the assembly of microtubules and structural analysis on the regulatory role of calcium into a pattern for mitosis regulation.

Other chapters discuss the methods used to measure intracellular pH changes as a function of the cell cycle of *Physarum* and the quantitative and qualitative changes taking place during the various phases of the cell cycle. The use of mammalian cell fusion to study cell cycle regulation and the protein synthesis regulation during the cell cycle in *Chlamydomonas reinhardtii* are then discussed. The final chapters focus on the regulation of expression of an inducible structural gene during the cell cycle of the green alga *Chlorella*. The chapters provide evidence for a model of positive and negative oscillatory control of inducible gene expression. An analysis of the expression of cytoplasmic genes as a function of the cell cycle using pedigrees of a large number of individual yeast cells is also included.

This book will appeal to a wide variety of life scientists and to molecular, cellular, and developmental biologists.

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