

Chapter 14: Cellular Reproduction Review

Role of protein kinases

Entry into M-phase initiated by protein kinase "maturation promoting factor" (MPF)

- Kinase activity dependent on cyclin levels (cytoplasmic components)
- Discovered with progesterone stimulation of first meiotic division (germinal vesicle breakdown is maturation)

MPF has two subunits: Catalytic (kinase) and regulatory units (cyclin)

- Catalytic subunit CDC2 required for entry into M-phase phosphorylating lamin proteins
- CDC2 also present in G₂/S phase which phosphorylates ORC

Regulation of Cdk's

a) Cyclin concentration

Differential transcription of cyclins at stages of cell cycle

b) Controlled proteolysis

Cyclin concentration regulated by controlled synthesis and degradation

- SCF (G₁ cyclin) and APC (Mitotic cyclin) complexes link cyclins to polyubiquitin chain and tags with degradation signal

c) Cdk phosphorylation state

Kinases CAK (phosphorylates Thr161) and Wee1 (phosphorylates Tyr15)

- Wee1 phosphorylation renders Cdk inactive therefore cannot enter into mitosis
- Cdc25 phosphatase removes Tyr15 phosphate and reactivates CDC2 kinase

- Wee1 mutant enters mitosis prematurely
- Cdc25 mutant causes cell to continue to grow without dividing

Cyclins and Cdk's

G₁ Phase Cyclin D + Cdk4 & Cdk6

- Activates pRB which increases transcription of Cyclins E & A
- Cyclins E + Cdk2 initiates G₁ to S-phase

S-Phase Cyclin A + Cdk2

- Cyclin B/A + Cdk1 initiates G₂ to M-phase
- Cdk1 absolutely required for development

Subcellular localization of Cyclin B₁

Cyclin B₁ accumulates in the nucleus just prior to mitosis

- Phosphorylation of nuclear export signal (NES) stops export from nucleus

Cell Cycle And Cellular Reproduction Chapter Review

Douglas F. Paulsen



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Progress in Cell Cycle Research Laurent Meijer, Armelle Jézéquel, Bernard Ducommun, 2012-12-06 The Progress in Cell Cycle Research series is dedicated to serve as a collection of reviews on various aspects of the cell division cycle with special emphasis on less studied aspects. We hope this series will continue to be helpful to students, graduates, and researchers interested in the cell cycle area and related fields. We hope that reading of these chapters will constitute a point of entry into specific aspects of this vast and fast moving field of research. As PCCR4 is being printed, several other books on the cell cycle have appeared (ref 1-3) which should complement our series. This fourth volume of PCCR starts with a review on RAS pathways and how they impinge on the cell cycle (chapter 1). In chapter 2, an overview is presented on the links between cell anchorage, cytoskeleton, and cell cycle progression. A model of the G1 control in mammalian cells is provided in chapter 3. The role of histone acetylation and cell cycle control is described in chapter 4. Then follow a few reviews dedicated to specific cell cycle regulators: the 14-3-3 protein (chapter 5), the cdc7 Dbp4 protein kinase (chapter 6), the two products of the p16 CDKN2A locus and their link with Rb and p53 (chapter 7), the Ph085 cyclin dependent kinases in yeast (chapter 9), the cdc25 phosphatase (chapter 10), RCC1 and ran (chapter 13). The intriguing phosphorylation dependent prolyl isomerization process and its function in cell cycle regulation are reviewed in chapter 8.

Fundamentals of Microbiology Jeffrey C. Pommerville, 2017-05-02 Pommerville's Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students. Initial introduction to

this exciting science *Canine and Feline Gastroenterology* Robert J. Washabau, Michael J. Day, 2012-04-27 A comprehensive reference standard for the discipline Canine and Feline Gastroenterology covers the biology pathobiology and diagnosis and treatment of diseases of the gastrointestinal pancreatic and hepatobiliary systems An international team of experts including 85 authors from 17 different countries led by Robert Washabau and Michael Day covers everything from minor problems such as adverse food reactions to debilitating inflammatory infectious metabolic and neoplastic diseases of the digestive system This authoritative text utilizes an evidence based approach to reflect the latest science and research complemented by principles of problem solving algorithms to improve clinical diagnoses and extensive full color illustrations For generalists and specialists alike this gastroenterology reference should be part of every serious practitioner s professional library A comprehensive 928 page reference standard covers the discipline of canine and feline gastroenterology An international focus is provided by 85 authors from 17 different countries including renowned experts in veterinary gastroenterology internal medicine pathology clinical pathology radiology and infectious disease Coverage of the entire breadth and depth of gastroenterology ranges from biology to pathobiology as well as diagnosis and treatment of diseases of the gastrointestinal pancreatic and hepatobiliary systems Current information on GI microflora immunology cellular growth and systems integration provides a foundation for treating clinical problems Coverage of diseases in dogs and cats includes the oral cavity esophagus stomach small intestine large intestine colon anorectum liver and biliary tract exocrine pancreas peritoneum and associated vasculature A focus on patient management examines the full range of procedures and techniques essential to diagnosis and treatment from clinical signs and diagnosis to nutritional support and pharmacologic management of disease Clear explanations of current diagnostic modalities include laboratory tests molecular methods diagnostic imaging endoscopy and histopathology also showing how to interpret and utilize results A strong clinical approach emphasizes need to know information for managing the common and not so common G I clinical problems of everyday practice Full color photographs and illustrations depict concepts conditions and procedures An evidence based medicine perspective reflects the latest research as well as the modern practice of veterinary medicine Logical coherent and consistent internal organization makes this a reader friendly edition Problem based algorithms help in diagnosing every G I clinical problem from A to Z A stand alone section on the pharmacologic approach to G I disease offers quick and easy drug reference

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Concepts of Human Anatomy and Physiology Kent Marshall Van De Graaff,Stuart Ira Fox,1989

Concepts of Genetics William S. Klug,Michael R. Cummings,2003 This book is known for its clear writing style emphasis on concepts visual art program and thoughtful coverage of all areas of genetics The authors capture readers interest with up to date coverage of cutting edge topics and research The authors emphasize those concepts that readers should come to understand and take away with them not a myriad of details and exceptions that need to memorized and are soon forgotten In addition to topics traditionally covered in genetics this book has increased coverage of genomics including proteomics and bioinformatics biotechnology and contains more real world problems For anyone in biology agriculture or health science who is interested in genetics

Biology, Today and Tomorrow Jack A. Ward,Howard R. Hetzel,1984

Introductory Plant Biology Kingsley R. Stern,Shelley Jansky,James E. Bidlack,2003 This introductory text assumes little prior scientific knowledge on the part of the student It includes enough information for some shorter introductory botany courses open to majors and non majors and is arranged so that sections can be omitted without disrupting the continuity of the course

Pathophysiology Kathryn L. McCance,Sue E. Huether,2006 This fully updated textbook provides pathophysiology students with a complete knowledge base that includes the latest data from research on environmental and genetic factors that influence the disease process

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