

LAB 09 – Cell Division

Introduction:

One of the characteristics of living things is the ability to replicate and pass on genetic information to the next generation. Cell division in individual bacteria and archaea usually occurs by binary fission. Mitochondria and chloroplasts also replicate by binary fission, which is evidence of the evolutionary relationship between these organelles and prokaryotes.

Cell division in eukaryotes is more complex. It requires the cell to manage a complicated process of duplicating the nucleus, other organelles, and multiple chromosomes. This process, called the cell cycle, is divided into three parts: interphase, mitosis, and cytokinesis (**Figure 1**). In the first growth phase (G_1), the cell grows and prepares to duplicate its DNA. In the synthesis phase (S), the chromosomes are replicated. In the second growth phase (G_2), the cell prepares to divide. In mitosis, the duplicated chromosomes are separated into two nuclei. In most cases, mitosis is followed by cytokinesis, when the cytoplasm divides and organelles separate into daughter cells. This type of cell division is asexual and is important for growth, renewal, and repair of multicellular organisms.

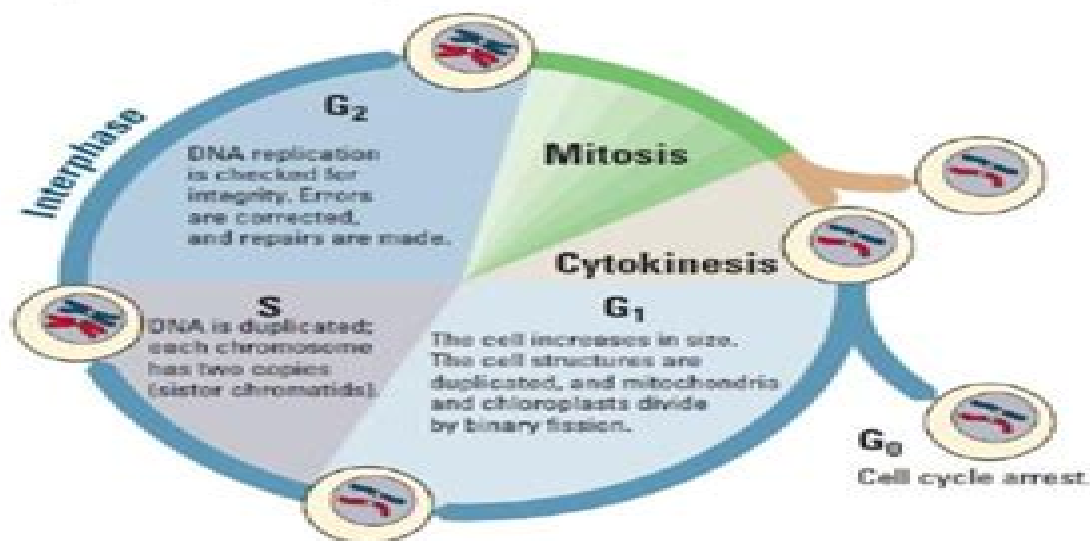


Figure 1: The Major Stages of the Cell Cycle

Cell division is tightly controlled by complexes made of several specific proteins. These complexes contain enzymes called cyclin-dependent kinases (CDKs), which turn on or off the various processes that take place in cell division. CDK partners with a family of proteins called cyclins. One such complex is mitosis-promoting factor (MPF), sometimes called maturation-promoting factor, which contains cyclin A or B and cyclin-dependent kinase (CDK) (**Figure 2a**). CDK is activated when it is bound to cyclin, interacting with various other proteins that, in this

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Yi-Tong Ma



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ICSE-Lab Manual Biology-TB-09 Alice Jacob, ICSE Lab Manual Biology TB 09 AP Biology Deborah T.

Goldberg,2020-03-03 Barron s AP Biology With Two Practice Tests is revised to reflect all upcoming changes to the AP Biology course and the May 2020 exam You ll get the in depth content review and practice tests you need to fully prepare for the exam This edition features Two full length practice exams in the book that follow the content and style of the revised AP Biology exam with detailed answer explanations for all questions A fully revised introduction that covers the new exam format including the exam sections the question types the number of questions per section and the amount of time allotted per section Helpful test taking tips and strategies throughout the book plus icons that designate sections with particularly helpful background information to know 19 comprehensive review chapters that cover all of the major topic areas that will be tested on the exam including the Cell Cycle Photosynthesis Heredity and much more End of chapter practice questions that reinforce the concepts reviewed in each chapter Appendices with key measurements that you should be familiar with as well as a glossary of key terms and definitions **AP Biology Premium** Deborah T. Goldberg,2020-06-19 Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Biology Premium 2020 2021 includes in depth content review and online practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 5 full length practice tests 2 in the book and 3 more online Strengthen your knowledge with in depth review covering all Units on the AP Biology Exam Reinforce your learning with practice questions at the end of each chapter Interactive Online Practice Continue your practice with 3 full length practice tests on Barron s Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with automated scoring to check your learning progress *AP Biology Flash Cards* Deborah T. Goldberg,2021-01-12 Now Available in Digital Format Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Biology Flashcards includes 450 up to date content review cards and practice questions Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with review and practice tailored to the most recent exam Be Confident on Exam Day Strengthen your knowledge with in depth review of frequently tested topics on the AP Biology exam Find specific concepts quickly and easily with cards organized by topic Sharpen your test taking skills with content review questions Customize your review using the enclosed sorting ring to arrange the cards in an order that best suits your study needs Check out Barron s AP Biology Premium for even more review full length practice tests and access to Barron s Online Learning Hub for a timed test option and automated scoring Lab Competencies Peter J. Doolin,2007-04-01 Part of the

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Biology looks at micropatterning in cell biology and includes chapters on protein photo patterning on PEG with benzophenone laser directed cell printing and dip pen nanolithography The cutting edge material in this comprehensive collection is intended to guide researchers for years to come Includes sections on micropatterning in 2D with photomask maskless micropatterning and 2D nanopatterning Chapters are written by experts in the field Cutting edge material Stem Cells: An Insider's Guide Paul Knoepfler,2013-07-30 Stem Cells An Insider s Guide is an exciting new book that takes readers inside the world of stem cells guided by international stem cell expert Dr Paul Knoepfler Stem cells are catalyzing a revolution in medicine The book also tackles the exciting and hotly debated area of stem cell treatments that are capturing the public s imagination In the future they may also transform how we age and reproduce However there are serious risks and ethical challenges too The author s goal with this insider s guide is to give readers the information needed to distinguish between the ubiquitous hype and legitimate hope found throughout the stem cell world The book answers the most common questions that people have about stem cells Can stem cells help my family with a serious medical problem such as Alzheimer s Multiple Sclerosis or Autism Are such treatments safe Can stem cells make me look younger or even literally stay physically young These questions and many more are answered here A number of ethical issues related to stem cells that spark debates are discussed including risky treatments cloning and embryonic stem cells The author breaks new ground in a number of ways such as by suggesting reforms to the FDA providing a new theory of aging based on stem cells and including a revolutionary Stem Cell Patient Bill of Rights More generally the book is your guide to where the stem cell field will be in the near future as well as a thoughtful perspective on how stem cell therapies will ultimately change your life and our world

Microtubules: in vivo ,2010-09-24 Microtubules in vivo includes chapters by experts around the world on many aspects of microtubule imaging in living and fixed cells assays to study microtubule function in a wide array of model organisms and cultured cells high resolution approaches to study of the cytoskeleton The authors share their years of experience outlining potential pitfalls and critical factors to consider in experimental design experimental implementation and data interpretation Includes chapters by experts around the world on many aspects of microtubule imaging in living and fixed cells assays to study microtubule function in a wide array of model organisms and cultured cells high resolution approaches to study of the cytoskeleton The authors share their years of experience outlining potential pitfalls and critical factors to consider in experimental design experimental implementation and data interpretation *Argument-driven Inquiry in Biology* Victor Sampson,2014-04-01 Are you interested in using argument driven inquiry for high school lab instruction but just aren t sure how to do it You aren t alone This book will provide you with both the information and instructional materials you need to start using this method right away Argument Driven Inquiry in Biology is a one stop source of expertise advice and investigations The book is broken into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report

revision 2 A well organized series of 27 field tested labs that cover molecules and organisms ecosystems heredity and biological evolution The investigations are designed to be more authentic scientific experiences than traditional laboratory activities They give your students an opportunity to design their own methods develop models collect and analyze data generate arguments and critique claims and evidence Because the authors are veteran teachers they designed Argument Driven Inquiry in Biology to be easy to use and aligned with today s standards The labs include reproducible student pages and teacher notes The investigations will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today s teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Biology does all of this even as it gives students the chance to practice reading writing speaking and using math in the context of science

3D Bioprinting from Lab to Industry Prosenjit Saha,Sabu Thomas,Jinku Kim,Manojit Ghosh,2024-07-23 A complete overview of bioprinting from fundamentals and essential topics to recent advances and future applications Additive manufacturing also known as 3D printing is one of the most transformative technological processes to emerge in recent decades Its layer by layer construction method can create objects to remarkably precise specifications with minimal waste or energy consumption Bioprinting a related process that employs cells and biomaterials instead of man made substances or industrial materials has a range of biomedical and chemical uses that make it an exciting and fast growing area of research 3D Bioprinting from Lab to Industry offers a cutting edge overview of this topic its recent advances and its future applications Taking an interdisciplinary approach to a flourishing research field this book exceeds all existing treatments of the subject in its scope and comprehensiveness Moving from fundamental principles of the technology to its immense future potential this is a must own volume for scientists looking to incorporate this process into their research or product development 3D Bioprinting from Lab to Industry readers will also find Treatment of printing parameters surface topography requirements and much more Detailed discussion of topics including 5D printing in the medical field dynamic tuning the multi material extrusion approach and many others A complete account of the bioprinting process from lab requirements to commercialization 3D Bioprinting from Lab to Industry is ideal for researchers graduate and post doctoral scholars in the areas of materials science biomedical engineering chemical engineering biotechnology and biochemistry 40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson,2009 Drawing from the author s own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of

the 16 topics *Application of Protective Cultures and Bacteriocins for Food Biopreservation* Riadh Hammami, Ismail Fliss, Aldo Corsetti, 2019-09-20 The use of microorganisms and their metabolites for the preservation of foods began in prehistory Lactic acid bacteria are generally recognized as safe GRAS for this purpose They produce organic acids diacetyl acetoin hydrogen peroxide reuterin reutericyclin and bacteriocins all of which inhibit foodborne pathogens and spoilage microorganisms Bacteriocins and the strains that produce them are particularly effective as bio preservatives in cheese meat and vegetables They hold the promise of ensuring the quality and safety of ready to eat extended shelf life fresh tasting and minimally processed foods without chemical preservatives This Research Topic provides an overview of bacterial cultures bacteriocins and other metabolites that have shown promise for use as antimicrobial bio preservatives in foods in general Articles describing novel analytical technologies strategies to reduce or eliminate pathogens in food systems or emerging technologies for the production or use of protective cultures or their bacteriocins are presented **Exploring Physical Anthropology: Lab Manual and Workbook, 4e** Suzanne E Walker Pacheco, 2022-01-14 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation Research Awards Index ,1977 **Macromolecular Protein Complexes V** J. Robin Harris, Jon Marles-Wright, 2024-07-04 This volume in the Subcellular Biochemistry SCBI series is a continuation of several previous volumes devoted to the structural and functional study of protein complexes The expanding nature of this field of study derived mainly from X ray crystallography and electron cryomicroscopy justifies the continuing expansion of coverage in an almost encyclopaedic manner within the SCBI series Experienced and active researchers in the field shed light on the biology of protein complexes involved in important cellular functions from different perspectives such as AcrAB TolC and CST Other topics covered are the Toxin Antitoxin systems in cell survival the role of the ATPases CueR and RUVBL1 RUVBL2 in the regulation of gene expression complexes with multiple functions in the cell such as VCP p97 or the Vault complex FtsA and FtsZ in bacterial cell division GATOR1 and GATOR2 in amino acid sensing TRPA1 and the Serotonin Transporter in signaling oligomeric structures in eukaryotic cells such as amyloids and invertases among others The book is richly illustrated the result of an impressive integration of structural data from X ray crystallography and cryo electron microscopy Functional aspects of protein protein interactions are also featured prominently providing a valuable contribution for researchers and scholars Chapter 13 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) The Basics of Digital Forensics John Sammons, 2012-02-24 The

Basics of Digital Forensics provides a foundation for people new to the field of digital forensics. This book teaches you how to conduct examinations by explaining what digital forensics is, the methodologies used, key technical concepts, and the tools needed to perform examinations. Details on digital forensics for computers, networks, cell phones, GPS, the cloud, and Internet are discussed. Readers will also learn how to collect evidence, document the scene, and recover deleted data. This is the only resource your students need to get a jump start into digital forensics investigations. This book is organized into 11 chapters. After an introduction to the basics of digital forensics, the book proceeds with a discussion of key technical concepts. Succeeding chapters cover labs and tools, collecting evidence, Windows system artifacts, anti-forensics, Internet and email, network forensics, and mobile device forensics. The book concludes by outlining challenges and concerns associated with digital forensics. PowerPoint lecture slides are also available. This book will be a valuable resource for entry-level digital forensics professionals as well as those in complementary fields including law enforcement, legal, and general information security. Learn all about what Digital Forensics entails. Build a toolkit and prepare an investigative plan. Understand the common artifacts to look for during an exam.

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