

# Virtual Lab Cell Reproduction Answers

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*Bulletin of the Atomic Scientists* 1958-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

**The Software Encyclopedia** 2000

**Popular Science** 2005-09 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

*Biology Resources in the Electronic Age* Judith Bazler 2003 Lists and reviews the most useful Web sites that provide information on key topics in biology.

Searching and Seizing Computers and Obtaining Electronic Evidence in Criminal Investigations Orin S. Kerr 2001

The Cell Cycle and Cancer Renato Baserga 1971

*Concepts of Biology* Samantha Fowler 2018-01-07 *Concepts of Biology* is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

**Nutrient Requirements of Nonhuman Primates** National Research Council 2003-03-01 This new release presents the wealth of information gleaned about nonhuman primates nutrition since the previous edition was published in 1978. With expanded coverage of natural dietary habits, gastrointestinal anatomy and physiology, and the nutrient needs of species that have been difficult to maintain in captivity, it explores the impact on nutrition of physiological and life-stage considerations: infancy, weaning, immune function, obesity, aging, and more. The committee also discusses issues of environmental enrichment such as opportunities for foraging. Based on the world's scientific literature and input from authoritative sources, the book provides best estimates of nutrient requirements. The volume covers requirements for energy: carbohydrates, including the role of dietary fiber; proteins and amino acids; fats and fatty acids; minerals, fat-soluble and water-soluble vitamins; and water. The book also analyzes the composition of important foods and feed ingredients and offers guidelines on feed processing and diet formulation.

**The Immortal Life of Henrietta Lacks** Rebecca Skloot 2011-03-08 #1 NEW YORK TIMES BESTSELLER •

“The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly.”—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE “MOST INFLUENTIAL” (CNN), “DEFINING” (LITHUB), AND “BEST” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE’S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb’s effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta’s family did not learn of her “immortality” until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta’s daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn’t her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

K-12 STEM Education: Breakthroughs in Research and Practice Management Association, Information

Resources 2017-10-31 Education is vital to the progression and sustainability of society. By developing effective learning programs, this creates numerous impacts and benefits for future generations to come. K-12 STEM Education: Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends, techniques, technological tools, and scholarly perspectives on STEM education in K-12 learning environments. Including a range of pertinent topics such as instructional design, online learning, and educational technologies, this book is an ideal reference source for teachers, teacher educators, professionals, students, researchers, and practitioners interested in the latest developments in K-12 STEM education.

**Cell Cycle Regulation** Philipp Kaldis 2010-11-18 This book is a state-of-the-art summary of the latest achievements in cell cycle control research with an outlook on the effect of these findings on cancer research. The chapters are written by internationally leading experts in the field. They provide an updated view on how the cell cycle is regulated in vivo, and about the involvement of cell cycle regulators in cancer.

*Water and Biomolecules* Kunihiro Kuwajima 2009-03-18 Life is produced by the interplay of water and biomolecules. This book deals with the physicochemical aspects of such life phenomena produced by water and biomolecules, and addresses topics including "Protein Dynamics and Functions", "Protein and DNA Folding", and "Protein Amyloidosis". All sections have been written by internationally recognized front-line researchers. The idea for this book was born at the 5th International Symposium "Water and Biomolecules", held in Nara city, Japan, in 2008.

Fundamentals of Microbiology Jeffrey C. Pommerville 2021-03-15 Fundamentals of Microbiology, Twelfth Edition is designed for the introductory microbiology course with an emphasis in the health sciences.

**The Birth of the Cell** Henry Harris 2000-01-01 Henry Harris here provides an account of how scientists came to understand that the bodies of all living things are composed of microscopic units that we now call cells. Harris turns to the primary literature - the original texts, scientific papers, and correspondence of medical researchers involved in the formulation of the cell doctrine - to reconstruct the events that enabled

researchers to comprehend the nature and purpose of cells. Translating many of these documents into English for the first time, Harris uncovers a version of events quite different from that described in conventional science textbooks. Focusing on the scientific history of the genesis of the cell doctrine, the author also considers contemporary social and political contexts and shows how these influenced what experiments were undertaken and how the results were represented.

**Guide for the Care and Use of Laboratory Animals** National Research Council 2011-01-27 A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

**The Eukaryotic Cell Cycle** J. A. Bryant 2008 This book provides an overview of the stages of the eukaryotic cell cycle, concentrating specifically on cell division for development and maintenance of the human body. It focusses especially on regulatory mechanisms and in some instances on the consequences of malfunction.

**Cytotoxicity** Erman Salih Istifli 2019-10-02 Compensating for cytotoxicity in the multicellular organism by a certain level of cellular proliferation is the primary aim of homeostasis. In addition, the loss of cellular proliferation control (tumorigenesis) is at least as important as cytotoxicity, however, it is a contrasting trauma. With the disruption of the delicate balance between cytotoxicity and proliferation, confrontation with cancer can inevitably occur. This book presents important information pertaining to the molecular control of the mechanisms of cytotoxicity and cellular proliferation as they relate to cancer. It is designed for students and researchers studying cytotoxicity and its control.

**Mitosis/Cytokinesis** Arthur Zimmerman 2012-12-02 Mitosis/Cytokinesis provides a comprehensive discussion of the various aspects of mitosis and cytokinesis, as studied from different points of view by various authors. The book summarizes work at different levels of organization, including phenomenological, molecular, genetic, and structural levels. The book is divided into three sections that cover the premeiotic and premitotic events; mitotic mechanisms and approaches to the study of mitosis; and mechanisms of cytokinesis. The authors used a uniform style in presenting the concepts by including an overview of the field, a main theme, and a conclusion so that a broad range of biologists could understand the concepts. This volume also explores the potential developments in the study of mitosis and cytokinesis, providing a background and perspective into research on mitosis and cytokinesis that will be invaluable to scientists and advanced students in cell biology. The book is an excellent reference for students, lecturers, and research professionals in cell biology, molecular biology, developmental biology, genetics, biochemistry, and physiology.

**Neuroscience in the 21st Century** Donald W. Pfaff 2022-10-17 Edited and authored by a wealth of international experts in neuroscience and related disciplines, this key new resource aims to offer medical students and graduate researchers around the world a comprehensive introduction and overview of

modern neuroscience. Neuroscience research is certain to prove a vital element in combating mental illness in its various incarnations, a strategic battleground in the future of medicine, as the prevalence of mental disorders is becoming better understood each year. Hundreds of millions of people worldwide are affected by mental, behavioral, neurological and substance use disorders. The World Health Organization estimated in 2002 that 154 million people globally suffer from depression and 25 million people from schizophrenia; 91 million people are affected by alcohol use disorders and 15 million by drug use disorders. A more recent WHO report shows that 50 million people suffer from epilepsy and 24 million from Alzheimer's and other dementias. Because neuroscience takes the etiology of disease—the complex interplay between biological, psychological, and sociocultural factors—as its object of inquiry, it is increasingly valuable in understanding an array of medical conditions. A recent report by the United States' Surgeon General cites several such diseases: schizophrenia, bipolar disorder, early-onset depression, autism, attention deficit/ hyperactivity disorder, anorexia nervosa, and panic disorder, among many others. Not only is this volume a boon to those wishing to understand the future of neuroscience, it also aims to encourage the initiation of neuroscience programs in developing countries, featuring as it does an appendix full of advice on how to develop such programs. With broad coverage of both basic science and clinical issues, comprising around 150 chapters from a diversity of international authors and including complementary video components, *Neuroscience in the 21st Century* in its third edition serves as a comprehensive resource to students and researchers alike.

**The American Biology Teacher 2006**

**Lab Manual Biology Hard Bound Class 11 Rajesh Kumar Lab Manual**

**AP Biology For Dummies Peter J. Mikulecky 2008-06-02** Relax. The fact that you're even considering taking the AP Biology exam means you're smart, hard-working and ambitious. All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits. That's where *AP Biology For Dummies* comes in. This user-friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test. It also provides two full-length practice exams, complete with detailed answer

explanations and scoring guides. This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score. And, as a special bonus, you'll also get a handy primer to help you prepare for the test-taking experience. Discover how to: Figure out what the questions are actually asking Get a firm grip on all exam topics, from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty-gritty details Maximize your score on multiple choice questions Craft clever responses to free-essay questions Identify your strengths and weaknesses Use practice tests to adjust you exam-taking strategy

Supplemented with handy lists of test-taking tips, must-know terminology, and more, AP Biology For Dummies helps you make exam day a very good day, indeed.

Scientific and Medical Aspects of Human Reproductive Cloning National Research Council 2002-06-17

Human reproductive cloning is an assisted reproductive technology that would be carried out with the goal of creating a newborn genetically identical to another human being. It is currently the subject of much debate around the world, involving a variety of ethical, religious, societal, scientific, and medical issues. Scientific and Medical Aspects of Human Reproductive Cloning considers the scientific and medical sides of this issue, plus ethical issues that pertain to human-subjects research. Based on experience with reproductive cloning in animals, the report concludes that human reproductive cloning would be dangerous for the woman, fetus, and newborn, and is likely to fail. The study panel did not address the issue of whether human reproductive cloning, even if it were found to be medically safe, would be "or would not be" acceptable to individuals or society.

**The Immortal Life of Henrietta Lacks** Rebecca Skloot 2010-02-02 #1 NEW YORK TIMES BESTSELLER • "The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly."—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE "MOST INFLUENTIAL" (CNN), "DEFINING" (LITHUB), AND "BEST" (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE'S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial

Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb’s effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta’s family did not learn of her “immortality” until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta’s daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn’t her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

#### **WHO Laboratory Manual for the Examination of Human Semen and Sperm-Cervical Mucus Interaction**

World Health Organisation 1999-05-13 The definitive and essential source of reference for all laboratories involved in the analysis of human semen.

**The Dreamkeeper Messages** Deborah Harmes 2009-12 From Europe to the USA to New Zealand and Australia, Dr. Deborah Harmes has written and lectured for almost two decades, sharing the visions that she has received of our now-unfolding society and planet. After receiving a set of Earth Changes visions in the mid-to-late 1990s, the first version of this book was published. But it is only now that the visions are

truly coming to pass, so this 3rd edition is both timely and important for anyone who wishes to stay apprised of both current and future events. Deborah's luminous companion throughout her life has been the otherworldly being that she calls the Dreamkeeper, the being who has clearly communicated what lies ahead for humankind. The Dreamkeeper's gentle spiritual messages balance out the serious nature of the visions of Earth in the years ahead.

E-Learning as a Socio-Cultural System: A Multidimensional Analysis Zuzevi?i?t?, Vaiva 2014-06-30

Information and communication technologies play a crucial role in a number of modern industries. Among these, education has perhaps seen the greatest increases in efficiency and availability through Internet-based technologies. E-Learning as a Socio-Cultural System: A Multidimensional Analysis provides readers with a critical examination of the theories, models, and best practices in online education from a social perspective, evaluating blended, distance, and mobile learning systems with a focus on the interactions of their practitioners. Within the pages of this volume, teachers, students, administrators, policy makers, and IT professionals will all find valuable advice and enriching personal experiences in the field of online education.

Teaching Science in the Two-year College Timothy M. Cooney 2003-01-01 Two-year colleges are critical to science educationOCO's futureOCOin fact, some data indicate that half of future science teachers will take their first years of science at a two-year school. To address the unique challenges of this special setting, presents 24 articles featuring the most useful and relevant insights and advice from NSTAOCO's Journal of College Science Teaching."

**A.D.A.M. Interactive Anatomy Online Student Lab Activity Guide** Scott D. Schaeffer 2013-02-15 The ADAM Interactive Anatomy Online: Student Lab Activity Guide is geared to help bring even more meaning and application to the material you're learning in your Anatomy & Physiology course. No matter what allied health discipline you're preparing for, this guide will help bring the material to life, make the content more meaningful to the real world, and place you on the path to mastery of human anatomy and physiology. This lab activity guide can be used in conjunction with A.D.A.M. Interactive Anatomy Online ([www.interactiveanatomy.com](http://www.interactiveanatomy.com)), which allows the additional benefit of complete immersion in a layer-by-

layer virtual dissection experience.

**Alcamo's Fundamentals of Microbiology** Jeffrey C Pommerville 2010-03-08 The ninth edition of award-winning author Jeffrey Pommerville's classic text provides nursing and allied health students with a firm foundation in microbiology, with an emphasis on human disease. An educator himself, Dr. Pommerville incorporates accessible, engaging pedagogical elements and student-friendly ancillaries to help students maximize their understanding and retention of key concepts. Ideal for the non-major, the ninth edition includes numerous updates and additions, including the latest disease data and statistics, new material on emerging disease outbreaks, an expanded use of concept maps, and many other pedagogical features. With an inviting Learning Design format and Study Smart notes to students, Alcamo's Fundamentals of Microbiology, Ninth Edition ensures student success as they delve into the exciting world of microbiology.

**The Cytoskeleton** James Spudich 1996-01

*Reproductive Tract Infections* Adrienne Germain 2013-06-29 Reproductive tract infections (RTIs) have become a silent epidemic that is devastating women's lives. Each year, thousands of women die needlessly from the consequences of these infections, including cervical cancer, ectopic pregnancy, acute and chronic infections of the uterus and the fallopian tubes, and puerperal infections. For many women, this happens because they receive medical attention too late, if at all. The terrible irony of this tragedy is that early diagnosis of and treatment for many RTIs do not require high-technology health care. For the hundreds of millions of women with chronic RTIs acquired from their sexual partners, life can become a living hell. Infection is a major cause of infertility, and it leads to scorn and rejection in many countries. These women may experience constant pain, have festering lesions of the genital tract, be at enhanced risk of secondary diseases, and endure social ostracism. The problems associated with RTIs have grown even greater in the past decade with the emergence of human immunodeficiency virus (HIV) and AIDS. Preexisting sexually transmitted disease, particularly when associated with genital tract ulcers, raises women's vulnerability to the transmission of HIV 3-5 fold.

Molecular Biology of the Cell Bruce Alberts 2004

**Revolutionizing K-12 Blended Learning through the i<sup>2</sup>Flex Classroom Model** Avgerinou, Maria D.

2016-06-20 Blended learning has gained significant attention recently by educational leaders, practitioners, and researchers. i<sup>2</sup>Flex, a variation of blended learning, is based on the premise that certain non-interactive teaching activities, such as lecturing, can take place by students without teachers' direct involvement. Classroom time can then be used for educational activities that fully exploit teacher-student and student-student interactions, allowing for meaningful personalized feedback and scaffolding on demand. Revolutionizing K-12 Blended Learning through the i<sup>2</sup>Flex Classroom Model presents a well-rounded discussion on the i<sup>2</sup>Flex model, highlighting methods for K-12 course design, delivery, and evaluation in addition to teacher performance assessment in a blended i<sup>2</sup>Flex environment. Emphasizing new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers, this publication is an essential reference source for pre-service and in-service teachers, researchers, administrators, and educational technology developers.

**PISA Take the Test Sample Questions from OECD's PISA Assessments** OECD 2009-02-02 This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

**Biology 2e** Mary Ann Clark 2018-04

**Guide for All-Hazard Emergency Operations Planning** Kay C. Goss 1998-05 Meant to aid State & local emergency managers in their efforts to develop & maintain a viable all-hazard emergency operations plan. This guide clarifies the preparedness, response, & short-term recovery planning elements that warrant inclusion in emergency operations plans. It offers the best judgment & recommendations on how to deal with the entire planning process -- from forming a planning team to writing the plan. Specific topics of discussion include: preliminary considerations, the planning process, emergency operations plan format, basic plan content, functional annex content, hazard-unique planning, & linking Federal & State operations.

Cell Cycle Control Michele Pagano 2013-06-29 Addressing the regulation of the eukaryotic cell cycle, this book brings together experts to cover all aspects of the field, clearly and unambiguously, delineating what is commonly accepted in the field from the problems that remain unsolved. It will thus appeal to a large audience: basic and clinical scientists involved in the study of cell growth, differentiation, senescence, apoptosis, and cancer, as well as graduates and postgraduates.

**Encyclopedia of Reproduction** 2018-06-29 Encyclopedia of Reproduction, Second Edition comprehensively reviews biology and abnormalities, also covering the most common diseases in humans, such as prostate and breast cancer, as well as normal developmental biology, including embryogenesis, gestation, birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers, from advanced undergraduate students, to research professionals. Chapters also explore the latest advances in cloning, stem cells, endocrinology, clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one-stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics, from basic, to clinical considerations, including evolutionary advances in molecular, cellular, developmental and clinical sciences Includes multimedia and interactive teaching tools, such as downloadable PowerPoint slides, video content and interactive elements, such as the Virtual Microscope

*Anatomy & Physiology* 2016