

Access Free HHMI VIRTUAL IMMUNOLOGY LAB ANSWERS Pdf Free Copy

E-Learning as a Socio-Cultural System: A Multidimensional Analysis *Game-Based Teaching and Simulation in Nursing and Health Care* **Viruses and Society** *The Virtual University Project-Based Writing in Science* *The Science Teacher* **Foundations of Anatomy and Physiology - ePub** *Manual of Molecular and Clinical Lab Immunology* *Influenza, Third Edition* *Frontiers in Anti-Infective Drug Discovery* *CK-12 Biology Teacher's Edition* *The American Biology Teacher* *FormaMente* n. 1-2/2012 *Virtual, Augmented and Mixed Reality. Applications and Case Studies* **Virtual Reality in Education: Breakthroughs in Research and Practice** *Hematology and Immunology* **Cumulated Index Medicus** **Landscapes and Labs** *Integrative Computational Systems Biology Approaches in Immunology and Medicine* *How to teach FAS/FAE children* *Exquisite Specificity* **Light Up Your Child's Mind** *At the Bench* **International Research Centers Directory** **The Visionary Position** *The Second Life Herald* *Argonne National Laboratory, 1946-96* **Constructing Self-Discovery Learning Spaces Online: Scaffolding and Decision Making Technologies** *Literature Search* **The Media Lab** *Economics Lab* *Current Protocols in Immunology* *Virtual Eternity* *The Bone Lady* *Creating Your World* **Egg and Ego** **Design and Planning of Research and Clinical Laboratory Facilities** *Cat Zero* **Virtual Environments and Distributed Computing at SC'95** **The Foundations of Laboratory Safety**

What is it like to do field biology in a world that exalts experiments and laboratories? How have field biologists assimilated laboratory values and practices, and crafted an exact, quantitative science without losing their naturalist souls? In *Landscapes and Labs*, Robert E. Kohler explores the people, places, and practices of field biology in the United States from the 1890s to the 1950s. He takes readers into the fields and forests where field biologists learned to count and measure nature and to read the imperfect records of "nature's experiments." He shows how field researchers use nature's particularities to develop "practices of place" that achieve in nature what laboratory researchers can only do with simplified experiments. Using historical frontiers as models, Kohler shows how biologists created vigorous new border sciences of ecology and evolutionary biology. Enrich your virtual existence by mastering the techniques and tactics the experts use to create jaw-dropping SL content—everything from buildings and vehicles to clothing, landscapes, and animations. This official, exclusive guide from a team of Second Life content-creation experts was written with the full support of Linden Lab and features in-depth instructions for creating beautiful content and putting it to work in-world. It's both a practical, step-by-step guide and a creative session with some of the most artistic and talented minds in the Second Life community. CD included. As an increasing amount of information is made available online, the assumption is that people who visit Web sites will be able to strategize their learning to optimize access to this information. *Constructing Self-Discovery Learning Spaces Online: Scaffolding and Decision Making Technologies* raises awareness of the strategies supporting self-driven learner efficacy on a number of site types. This book reflects on existing literature about self-discovery learning and what learners need in terms of scaffolding to help them make the right decisions, assess their own level of learning, vet information strategically, collaborate with other learners, and build their own skill sets. "On the first day of the search, I failed to find the body." So writes forensic anthropologist and bioarchaeologist Mary H. Manhein—or "the bone lady," as law enforcement personnel call her. In this, one of dozens of stories recollected in her powerful memoir, Manhein and the state police eventually unearth a black plastic bag buried in the banks of the Mississippi River containing the body of a man who has been missing for five years. After the painstaking process of examining the remains, confirming the victim's identity, and preparing a formal report for the police, Manhein testifies for the prosecution at the murder trial. The defendant is convicted (in no small part because of Manhein), and "the bone lady" has helped solve yet another mystery. As director of the Forensic Anthropology and Computer Enhancement Services (FACES) Laboratory at Louisiana State University, Manhein unravels mysteries of life and death every day. In *The Bone Lady*, she shares, with the compassion and humor of a born storyteller, many fascinating cases that include the science underlying her analyses as well as the human stories behind the remains. Manhein, an expert on the human skeleton, assists law enforcement by providing profiles of remains that narrow the identification process when the traditional means used by medical examiners or coroners to conduct autopsies are no longer applicable—simply put, when bones are all that are left to tell the story. She assesses age, sex, race, height, signs of trauma, and time since death, and creates clay facial reconstructions. Although Manhein enjoys solving high-profile cases, her personal crusade is identifying the John and Jane Does who wait in her lab. Manhein's own words perfectly characterize her mission: "Identifying a victim can bring peace of mind to the family and can help them to go on with their lives. Sometimes, peace of mind is the only gift that I can give." This two-volume set LNCS 11574 and 11575 constitutes the refereed proceedings of the 11th International Conference on Virtual, Augmented and Mixed Reality, VAMR 2019, held in July 2019 as part of HCI International 2019 in Orlando, FL, USA. HCII 2019 received a total of 5029 submissions, of which 1275 papers and 209 posters were accepted for publication after a careful reviewing process. The 80 papers presented in this volume were organized in topical sections named: multimodal interaction in VR, rendering, layout, visualization and navigation, avatars, embodiment and empathy in VAMR, cognitive and health issues in VAMR, VAMR and robots, VAMR in learning, training and entertainment, VAMR in aviation, industry and the military. **DESIGN and PLANNING of Research and Clinical LABORATORY FACILITIES** In this primer/professional reference, Leonard Mayer demystifies one of the most complex architectural specialties. An architect with more than thirty-three years' experience as a master planner and programmer of laboratories and clinical facilities, Mr. Mayer offers a comprehensive overview of the fundamental issues related to laboratory planning and design. He also provides designers with a clear and rational framework through which to approach this highly challenging and rewarding design specialty. A superb learning tool for students and professionals just getting started in lab design and a valuable one-volume reference for the experienced professional, *Design and Planning of Research and Clinical Laboratory Facilities* features: * Step-by-step guidance through the complex maze of codes, specifications, standards, and official guidelines, relating to the planning, design, and construction processes * New and updated design criteria based on the most recent laws and regulations * Master plans, facility programs, functional programs and requirements programs for a wide variety of scientific and medical disciplines and support facilities * Comprehensive lists of relevant codes, regulations, standards, guidelines, and important architectural, structural, mechanical, electrical, and plumbing criteria Research and clinical laboratory facilities are, perhaps, the most complex structures to plan and design. Intimidated by a vast and seemingly impenetrable body of codes, regulations, and design criteria pertaining to lab design and construction, many architects, unfortunately, choose to avoid what can be one of the most profitable and professionally rewarding areas of specialization. Written by an architect with more than thirty-three years of experience as a master planner and programmer of laboratories and clinical facilities, this book demystifies the process of laboratory planning and design. It provides a comprehensive overview of the fundamental issues related to laboratory design and offers readers detailed, step-by-step guidance through the complex maze of design specifications and codes, standards, and official guidelines that must be addressed during the programming, planning, design, and construction process. Focusing mainly on laboratory programming, planning, and design criteria for "wet" laboratory environments, Leonard Mayer provides examples from numerous master plans, facility programs, functional programs and requirements programs applicable to a wide variety of scientific and medical disciplines, and related facilities. Related functions and activities include administrative offices, computer centers, core service and support, building services facilities, and more. He presents new and updated design criteria based on recent laws and regulations and supplies readers with comprehensive lists of relevant codes, regulations, standards, guidelines, and architectural, structural, mechanical, electrical, and plumbing criteria. *Design and Planning of Research and Clinical Laboratory Facilities* is an excellent primer for architecture students and newcomers to the field, as well as an indispensable single-volume reference for experienced professionals. It is also an invaluable resource for researchers and investigators, facility planners and managers, plant engineers, and all others involved with the design, construction, maintenance, and administration of laboratory facilities. A history of Argonne National Laboratory as the site of research in nuclear reactor technology, biology and medicine, materials science and world-renowned programs in physics. This new practice manual is designed to provide students with the conceptual foundations of anatomy and physiology, as well as the basic critical thinking skills they will need to apply theory to practice in real-life settings. Written by lecturers Dr Ellie Kirov and Dr Alan Needham, who have more than 60 years' teaching experience between them, the book caters to nursing, health science, and allied health students at varying levels of understanding and ability. Learning activities are scaffolded to enable students to progress to more complex concepts once they have mastered the basics. A key advantage of this manual is that it can be used by instructors and students in conjunction with any anatomy and/or physiology core textbook, or as a standalone resource. It can be adapted for learning in all environments, including where wet labs are not available. Can be used with any other textbook or on its own – flexible for teachers and students alike Scaffolded content – suitable for students' varying learning requirements and available facilities Concept-based practical activities - can be selected and adapted to align with different units across courses Provides a range of activities to support learning understanding and build knowledge, including theory, application and experimentation Activities can be aligned to learning requirements and needs – may be selected to assist pre-class, in-class, post-class, or for self-paced learning Easy to navigate – icons identify content type contained in each activity as well as safety precautions An eBook included in all print purchases Additional resources on Evolve: eBook on VitalSource Instructor resources: Answers to all Activity questions List of suggested materials and set up requirements for each Activity Instructor and Student resources: Image collection This book is well written, concise, and easy to read and understand. It serves as a very handy and useful resource for busy laboratorians, who routinely encounter the situations detailed therein. It is also helpful for students, who need to learn how to recognize and avoid such situations, by providing expert guidance and examples of ways to keep these types of errors from potentially causing harm to patients.--Cynthia S. Johns, Laboratory Corporation of America, Lab Medicine *The Diagnostic Standards of Care* series presents common errors associated with diagnoses in clinical pathology, using case examples to illustrate effective analysis based on current evidence and standards. Each volume demonstrates the use of quality assurance and the role of the pathologist in ensuring quality and patient safety. *Hematology and Immunology* focuses on core issues in achieving quality in all areas of hematopathology and immunology, with an emphasis on identifying established, evidence-based standards. It addresses potential problems and sources of error in testing procedures, how to anticipate and avoid such problems, and how to manage them if they occur. Discussions are problem-based and address common situations and issues faced by clinical pathologists or members of a laboratory team. Using actual case studies, the book provides plentiful examples of errors, along with discussions on how to deal with them effectively. *Hematology and Immunology* Features Key issues in achieving quality in all areas of hematology and immunology Numerous case examples offering real-world illustrations of how problems occur and how to avoid them An emphasis on identifying established, evidence-based standards in hematology and immunology "Frontiers in Anti-Infective Drug Discovery" is an eBook series devoted to publishing the latest and the most important advances in Anti-Infective drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and Modern technology has infiltrated many facets of society, including educational environments. Through the use of virtual learning, educational systems can become more efficient at teaching the student population and break down cost and distance barriers to reach populations that traditionally could not afford a good education. *Virtual Reality in Education: Breakthroughs in Research and Practice* is an essential reference source on the uses of virtual reality in K-12 and higher education classrooms with a focus on pedagogical and instructional outcomes and strategies. Highlighting a range of pertinent topics such as immersive virtual learning environments, virtual laboratories, and distance education, this publication is an ideal reference source for pre-service and in-service teachers, school administrators, principles, higher education faculty, K-12 instructors, policymakers, and researchers interested in virtual reality incorporation in the classroom. "A writer's worm's-eye view of an industry coming into being provides the reader a unique perspective on just why America is the world's capital of progress and innovation. Fred Moody spent a year tracking developments at the center for virtual-reality research, a cluster of Seattle companies formed around the University of Washington's Human Interface Technology Laboratory, and in *The Visionary Position* he chronicles the birth of an industry."--Jacket. 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. *RICERCA* Jet momentum dependence of jet quenching in PbPb collisions at SNN = 2.76 TeV *The CMS Collaboration* Modeling the metaverse: a theoretical model of effective team collaboration in 3D virtual environments Sarah van der Land, Alexander P. Schouten, Bart van den Hooff, Frans Feldberg The capture of moving object in video image Weina Fu, Zhiwen Xu, Shuai Liu, Xin Wang, Hongchang Ke Visual metaphors in virtual worlds. The example of NANEC 2010/11 Dolors Capdet Von Neuromancer zu Second Life. *Raumsimulationen im Cyberspace* Steffen Krämer APPLICAZIONI APPLICAZIONI Sensor models and localization algorithms for sensor networks based on received signal strength Fredrik Gustafsson, Fredrik Gunnarsson, David Lindgren Interactive lab to learn radio astronomy, microwave & antenna engineering at the Technical University of Cartagena José Luis Gómez-Tornero, David Cañete-Rebenaque, Fernando Daniel Quesada-Pereira, Alejandro Álvarez-Melcón Although influenza, commonly known as the flu, is a familiar disease to many people, its effects can be deadly. The virus holds the record for having the highest death rate in a two-year period of any disease (1918–1919), is highly potent, and is difficult to research because it is constantly mutating. *Influenza, Third Edition* examines symptoms and complications of the disease, as well as treatment, prevention, and the need for flu vaccines. Chapters include: *Deadly World Traveler* *Viral Replication* "I've Got the Flu, What Can I Do?" *Influenza—Nature's Frequent Flyer: Prevention* *Dealing with Complications* *What May the Future Bring?* Jonathan Hannah and Maureen Kelly are 24-year-olds struggling with religion, sexuality, and a hypnotic mid-90s virtual-reality game culture. Maureen is a lukewarm, lifelong Catholic, trying to keep her vow of virginity, despite an

infuriated fiancé and a pretty best friend. Jonathan is an agnostic womanizer. His conversion story starts when he learns his parents aborted his sister for her kidney cells: he was born instead. At his new career near Miami, a beautiful executive, Lana, seduces him. Lana controls access to Magic Theater, the mysterious games Jonathan tests. Jonathan's search for authentic reality and purpose intensifies as he explores Lana, girls, 90s-culture, corporations, art, and Catholicism. His journey shifts to the wintry north, through temptations like an erotic ex-lover, his ominous mentor, and the wide gate to eternity. Virtual Eternity combines vivid characters, romance, technological conspiracy, and religious journeys, including Scripture and Tradition sources. It weaves together two transformation stories. Provides a look at the future as it is envisioned by the Media Lab at MIT, where scientists are retooling mass media to the desires and whims of the individual

CK-12 Biology Teacher's Edition complements the CK-12 Biology Student Edition FlexBook. Viruses and Society is geared towards professionals and students in college-level introductory biology courses devoted to understanding viruses, vaccines, and their global impact. The beginning of the book introduces cells, DNA, and viruses themselves. There follows a review of how the immune system works and how scientists and physicians harness the immune system to protect people through vaccines. Specific chapters will focus on the 1918 influenza pandemic, the fight to eradicate polio, the HIV/AIDS pandemic, and our current COVID-19 crisis. Additionally, the book reviews the uses of viruses in genetic engineering and in gene therapy as well. The book will conclude by describing public health initiatives to keep emerging viruses in check and the role of scientific communication in how viruses are perceived and have an impact on our society. Key Features 1) The text employs approachable and simplified language 2) Provides all the essential elements for understanding virus biology 3) Includes details on how viruses affect individuals 4) Describes the ways public health decisions are made in light of how viral pathogens spread 5) Highlights up to date scientific findings on the features of emerging viruses that will always be with us

Based on an extensive reading of the literature in the field, interviews with leading participants and on-site observation, the book follows events, materials and actors through a twenty-year period during which a laboratory technique was transformed into one of the most successful tools of modern biotechnology. Beginning with an analysis of the ambiguities surrounding the initial status of monoclonal antibodies, the book goes on to explore the various practices and forms of knowledge involved in the reproduction of hybridoma technology. The analysis of the worldwide diffusion of monoclonal antibodies and their consequent transformation by users is complemented by a close-up account of their adoption within two laboratories. Print+CourseSmart Safety is a word that has many connotations, of risk of a possible accident that is acceptable conjuring up different meanings to different to one person- may not be acceptable to an people. What is safety? A scientist views safety other. This may be one reason why skydiving as a consideration in the design of an exper and mountain climbing are sports that are not iment. A manufacturing plant engineer looks as popular as are, say, boating or skiing. on safety as one of the necessary factors in But even activities that have high levels of developing a manufacturing process. A legis potential risk can be engaged in safely. How lator is likely to see safety as an important part can we minimize risks so that they decrease of an environmental law. A governmental ad to acceptable levels? We can do this by iden ministrator may consider various safety issues tifying sources of hazards and by assessing the when reviewing the environmental conse risks of accidents inherent to these hazards. quences of a proposed project. An attorney Most hazards that are faced in the laboratory may base a negligence suit on safety defects. Introduces new material that reflects the significant advances and developments in the field of clinical laboratory immunology. • Provides a comprehensive and practical approach to the procedures underlying clinical immunology testing. • Emphasizes molecular techniques used in the field of laboratory immunology. • Updates existing chapters and adds significant new material detailing molecular techniques used in the field. • Presents guidelines for selecting the best procedures for specific situations and discusses alternative procedures. • Covers aspects of immunology related disciplines such as allergy, autoimmune diseases, cancers, and transplantation immunology. When a virtual journalist for a virtual newspaper reporting on the digital world of an online game lands on the real-world front page of the New York Times, it just might signal the dawn of a new era. Virtual journalist Peter Ludlow was banned from The Sims Online for being a bit too good at his job-- for reporting in his virtual tabloid The Alphaville Herald on the cyber-brothels, crimes, and strong-arm tactics that had become rife in the game--and when the Times, the BBC, CNN, and other media outlets covered the story, users all over the Internet called the banning censorship. Seeking a new virtual home, Ludlow moved the Herald to another virtual world--the powerful online environment of Second Life--just as it was about to explode onto the international mediascape and usher in the next iteration of the Internet. In The Second Life Herald, Ludlow and his colleague Mark Wallace take us behind the scenes of the Herald as they report on the emergence of a fascinating universe of virtual spaces that will become the next generation of the World Wide Web: a 3-D environment that provides richer, more expressive interactions than the Web we know today. In 1992, science fiction writer Neal Stephenson imagined the "Metaverse," a virtual space that we would enter via the Internet and in which we would conduct important parts of our daily lives. According to Ludlow and Wallace, that future is coming sooner than we may think. They chronicle its chaotic, exhilarating, frightening birth, including the issue that the mainstream media often ignore: conflicts across the client-server divide over who should write the laws governing virtual worlds. Teaching FAS/FAE using technology and resources and website. Turn your students into scientists who use their knowledge and creativity to solve real-world problems. Each lesson features a step-by-step guide; a summary of recent research; and handouts that are classroom-ready. Learn about the three levels of writing, from a Level 1 quickwrite to a formal, multi-part, Level 3 research paper. Each writing assignment—narrative, persuasive, and informative—includes a detailed rubric that makes grading easy. Students collaborate to contain an outbreak of avian flu, lead a group of people trying to survive under harsh conditions, battle drought in a densely-populated city in the American southwest, research the behavior of animals in the local region, and calculate their own speed, velocity, and momentum. Engaging and demanding, Project-Based Writing in Science helps students to understand and improve the world. Based on the renowned Renzulli Method, which has been adopted in schools all over the country, Light Up Your Child's Mind presents a practical program to help children fire up a love of learning to last a lifetime. World-renowned experts Drs. Renzulli and Reis illustrate the crucial role parents can play in their children's development and address how they can work with teachers to enhance their children's education. They uncover the hidden potential of daydreamers, rebels, and one-track minds, arguing that gifted behavior -- basic smarts, high levels of task commitment, and creativity -- can be fostered in bright children, even unmotivated ones. Step by step, Light Up Your Child's Mind will show parents how to set their kids on the path to a rewarding future. A discussion of the increased accessibility to the Internet and how this has led to a variety of resources being used for learning. Case studies and examples show the benefits of using the Internet as part of resource-based learning. This textbook sketches the history of experimental economics before moving on to describe how to set up an economics experiment and to survey selected applications and the latest methods. A light-hearted look at the nature of academic science, intended for anyone interested in biology but particularly for biology students who want to find out what the future holds in store. The "Egg" of the title refers to the science of developmental biology, which is the speciality of the author, and which provides the material for many of the anecdotes. The "Ego" relates to the vanity of the scientists themselves. Academic scientists have to struggle to maintain their research funding. To do this they must persuade other scientists that they are very good, and that means working at a good institution, publishing papers in the most fashionable journals and giving lectures at the most prestigious meetings. Success often goes to those with the largest egos and it is their style of operation that is described in this book. The author is a well-known scientist who has worked at both universities and research institutes. He has published over 100 scientific papers and an influential book about embryonic development: "From Egg to Embryo". Current Protocols in Immunology is a three-volume looseleaf manual that provides comprehensive coverage of immunological methods from classic to the most cutting edge, including antibody detection and preparation, assays for functional activities of mouse and human cells involved in immune responses, assays for cytokines and their receptors, isolation and analysis of proteins and peptides, biochemistry of cell activation, molecular immunology, and animal models of autoimmune and inflammatory diseases. Carefully edited, step-by-step protocols replete with material lists, expert commentaries, and safety and troubleshooting tips ensure that you can duplicate the experimental results in your own laboratory. Bimonthly updates, which are filed into the looseleaf, keep the set current with the latest developments in immunology methods. The initial purchase includes one year of updates and then subscribers may renew their annual subscriptions. Current Protocols publishes a family of laboratory manuals for bioscientists, including Molecular Biology, Human Genetics, Protein Science, Cytometry, Cell Biology, Neuroscience, Pharmacology, and Toxicology. At the Bench is a unique handbook for living and working in the laboratory. Much more than a simple primer or lab manual, this book is an essential aid to understanding: -- how research groups work at a human level -- and how to fit in -- what equipment is essential, and how to use it properly -- how to get started and get organized -- how to set up an experiment -- how to handle and use data and reference sources -- how to present yourself and your results -- in print and in person Wise, light-hearted, but thoroughly practical, it offers advice, moral support, social etiquette, and professional reassurance along with assume-nothing, step-by-step instructions for those basic but vital laboratory procedures that are seldom explained to novices. For graduate students, physicians with research intentions, or laboratory technicians, this book is indispensable. For managers or mentors of such people, a copy will save hours of advice and instruction.

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