

Human Physiology

Final Examination

Cell physiology

1. Gene expression and its role? Organs involved in gene expression.

_ **Gene expression:** Process from gene to protein (transcription -> translation -> protein modification)

+ **Transcription** (take place inside **nucleus**)

+ **Translation** (take place **cytosol**)

+ **Protein modification** (take place **endoplasmic reticulum**)

_ **Role:** produce **structural protein** (constructing new membrane and new protein components of organelles) and **functional protein** (go to the blood system and functions as hormone or enzymes)

2. Function of Organelles

_ **Plasma Membrane:** separating **intracellular fluid (ICF)** and **extracellular fluid (ECF)**, control movements of molecules into and out of cell.

_ **ER (Endoplasmic Reticulum):**

+ **Rough ER: protein synthesis** (mRNA moves to ribosome on rough ER to start Protein synthesis, creating functional protein + structure protein)

+ **Smooth ER: lipid synthesis**, serves as transport vesicle, store calcium (In some cell, smooth ER secretes lipid-derived steroid hormone.)

_ **Centrosome:** establish the **microtubules** for cell division (**gamma tubulin + alpha tubulin protein** on the surface of centrosome makes the microtubules)

+ If the microtubules are destroyed, cell division stops and gets stuck at metaphase.

_ **Mitochondria** -> **producing energy** in form of ATP for cell, the process of ATP production consisting of **3 phases**:

+ **Glycolysis** (taking place in **cytosol**) -> breaking down **ONE glucose** into **TWO PYRUVATES**
->produce **2ATP**

Human Physiology Final Exam

Minjie Lin



Human Physiology Final Exam:

Annual Catalogue United States Air Force Academy, 1985 **Annual Catalog - United States Air Force Academy** United States Air Force Academy, 1971 **Final Exam** Pauline W. Chen, 2008-01-08 A brilliant transplant surgeon brings compassion and narrative drama to the fearful reality that every doctor must face the inevitability of mortality Uncommonly moving A revealing and heartfelt book Atul Gawande 1 New York bestselling author of Being Mortal When Pauline Chen began medical school she dreamed of saving lives What she could not predict was how much death would be a part of her work Almost immediately she found herself wrestling with medicine's most profound paradox that a profession premised on caring for the ill also systematically depersonalizes dying Final Exam follows Chen over the course of her education and practice as she struggles to reconcile the lessons of her training with her innate sense of empathy and humanity A superb addition to the best medical literature of our time **United States Air Force Academy** United States Air Force Academy, 1985 **Quantitative Human Physiology** Joseph J Feher, 2012-02-07 Quantitative Human Physiology An Introduction presents a course in quantitative physiology developed for undergraduate students of Biomedical Engineering at Virginia Commonwealth University The text covers all the elements of physiology in nine units 1 physical and chemical foundations 2 cell physiology 3 excitable tissue physiology 4 neurophysiology 5 cardiovascular physiology 6 respiratory physiology 7 renal physiology 8 gastrointestinal physiology and 9 endocrinology The text makes extensive use of mathematics at the level of calculus and elementary differential equations Examples and problem sets are provided to facilitate quantitative and analytic understanding while the clinical applications scattered throughout the text illustrate the rationale behind the topics discussed This text is written for students with no knowledge of physiology but with a solid background in calculus with elementary differential equations The text is also useful for instructors with less time each chapter is intended to be a single lecture and can be read in a single sitting A quantitative approach that includes physical and chemical principles An integrated approach from first principles integrating anatomy molecular biology biochemistry and physiology Illustration program reinforces the integrated nature of physiological systems Pedagogically rich including chapter objectives chapter summaries large number of illustrations and short chapters suitable for single lectures Clinical applications relevant to the biomedical engineering student TENS cochlear implants blood substitutes etc Problem sets provide opportunity for practice and assessment throughout the course **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy, 2004 **Biology for the IB Diploma** Andrew Allott, 2001 This concise guide provides all the content you need for the IB Diploma in Biology at both Standard and Higher Level Follows the structure of the IB Programme exactly and include all the options Each topic is presented on its own page for clarity Standard and Higher Level material clearly indicated Plenty of practice questions Written with an awareness that English may not be the reader's first language **The Cumulative Book Index**, 1905 A world list of books in the English

language Oxford University Gazette University of Oxford,1897 **Physiology Secrets** Hershel Raff,2002-10-02

Physiology Secrets 2nd Edition is a good balance of basic physiology and clinical applications with comprehensive coverage of physiology As basic science courses are increasingly becoming problem based with an emphasis on clinical applications of basic science principles the Secrets approach is ideally suited to present this kind of information In its basic Q A format this approach is also especially well suited to focusing on the key information in each area of what can be a difficult subject of study Concise answers with valuable pearls tips memory aids and secrets Includes multiple choice Final Exam Q A Raff now editor of leading undergrad physiology book Vander s Physiology Will have increased name recognition New chapters include Cell Signaling Physiology of Bone Endocrine Metabolic Integration Endocrine Immune Interactions and Physiology of Aging Raff has become an increasingly major name in Physiology and is now on the author team of the Vander Physiology text from McGraw Hill competitor to Guyton and Hall All chapters have been updated and expanded with special focus on strengthening and expanding the Cardiovascular chapter **Glasgow University Calendar** University of Glasgow,1914

The Glasgow University Calendar University of Glasgow,1917 **Principles of Human Physiology** William Benjamin Carpenter,1866 Minutes of the General Medical Council, and of Its Various Committees and Branch Councils General Medical Council (Great Britain),1904 The Hidden Curriculum—Faculty-Made Tests in Science Sheila Tobias,Jacqueline Raphael,2013-06-29 This resource manual for college level science instructors reevaluates the role of testing in their curricula and describes innovative techniques pioneered by other teachers part I examines the effects of the following on lower division courses changes in exam content format and environment revisions in grading practices student response colleague reaction the sharing of new practices with other interested professionals and more The book includes a comprehensive introduction faculty composed narratives commentaries by well known science educators and a visual index to 100 more refined innovations *A Treatise on Human Physiology* John Call Dalton,1866 Designs for Learning Environments of the Future Michael Jacobson,Peter Reimann,2010-03-10 Few things are as certain as societal changes and the pressing need for educators to prepare students with the knowledge and ways of thinking necessary for the challenges in a changing world In the forward thinking pages of Designs for Learning Environments of the Future international teams of researchers present emerging developments and findings in learning sciences and technologies at the infrastructure curricular and classroom levels Focusing on ideas about designing innovative environments for learning in areas such as biology engineering genetics mathematics and computer science the book surveys a range of learning technologies being explored around the world a spectrum as diverse as digital media computer modeling and 3D virtual worlds and addresses challenges arising from their design and use The editors holistic perspective frames these innovations as not only discrete technologies but as flexible learning environments that foster student engagement participation and collaboration Contributors describe possibilities for teaching and learning in these and other cutting edge areas Working with hypermodels

and model based reasoning Using visual representations in teaching abstract concepts Designing strategies for learning in virtual worlds Supporting net based collaborative teams Integrating innovative learning technologies into schools Developing personal learning communities Designs for Learning Environments of the Future will enhance the work of a wide range of professionals including researchers and graduate students in the learning and cognitive sciences and educators in the physical and social sciences **British Medical Journal** ,1929 *Teaching Lab Science Courses Online* Linda Jeschofnig, Peter Jeschofnig, 2011-02-02 Teaching Lab Science Courses Online is a practical resource for educators developing and teaching fully online lab science courses First it provides guidance for using learning management systems and other web 2 0 technologies such as video presentations discussion boards Google apps Skype video web conferencing and social media networking Moreover it offers advice for giving students the hands on wet laboratory experience they need to learn science effectively including the implications of implementing various lab experiences such as computer simulations kitchen labs and commercially assembled at home lab kits Finally the book reveals how to get administrative and faculty buy in for teaching science online and shows how to negotiate internal politics and assess the budget implications of online science instruction **The Journal of Education** ,1894

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