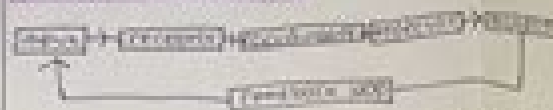


IMPORTANCE

- Physiological control system that maintains internal environment within narrow limits
- ENZYMES**
 - Enzymes, molecules
- CELLS**
 - If it is malfunctioned in blood + tissue fluids

CONTROL MECHANISMS



Positive Feedback

- Deviation in the system
- Causes corrective response
- System continues to deviate
- eg. 1st stage - nerve potential

Negative Feedback

- Change the stimulus
- Corrective response
- Stabilise the system
- eg. 2nd stage - nerve potential

DIABETES - A TYPE OF ENDOCRINE [T1D]

- One of the endocrine
- When controlling with physiological response
- Change in blood glucose levels of the glucose molecules
- Control process - change blood + insulin -> glucose in glucose
- At low insulin level, part of hormone released
- At high insulin level, release less with hormone, T is glucose molecules, control

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

TYPE 1

TYPE 2

PRODUCTION

- Produced by endocrine glands + secreted during into blood plasma
- Carried to target cell
- Bind to receptor on target cell + complementary
- Produced in small quantities
- Wide spread and long-lasting effects

INFLUENCING FACTORS

- Diet - affecting the endocrine system
- Stress - affecting the endocrine system
- Exercise - affecting the endocrine system

HOMEOSTASIS Pt. 1

SECOND MESSENGER MODEL

1. Binding of hormone to receptor protein causes change in protein shape
2. Activates the enzyme, which activates the second messenger
3. Second messenger is produced, which changes the target cell
4. Target cell is produced, which changes the target cell

FEEDBACK LOOP



LIVER - REGULATING BLOOD SUGAR

Glucagon

- When blood is higher than normal
- Insulin released into blood
- Causes glucose to be stored
- Blood decreases

Glucagon

- Production of glucose from glycogen + amino acids

Glucagon

- When blood is lower than normal
- Glucagon released into blood
- Causes glucose to be released
- Blood increases

CONTROL OF DIABETES

Treatment for T1: Insulin therapy - high insulin (insulin not produced) + low blood glucose - low insulin (insulin not produced) + high blood glucose - low insulin (insulin not produced)

Treatment for T2: Insulin therapy - low insulin (insulin not produced) + high blood glucose - low insulin (insulin not produced) + high blood glucose - low insulin (insulin not produced)

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Holt Biology Rob DeSalle, Holt Rinehart and Winston, 2008 *Holt Biology Student Edition* 2008 **Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Teaching Biology in Schools Kostas Kampourakis, Michael Reiss, 2018-05-23 An indispensable tool for biology teacher educators researchers graduate students and practising teachers this book presents up to date research addresses common misconceptions and discusses the pedagogical content knowledge necessary for effective teaching of key topics in biology Chapters cover core subjects such as molecular biology genetics ecology and biotechnology and tackle broader issues that cut across topics such as learning environments worldviews and the nature of scientific inquiry and explanation Written by leading experts on their respective topics from a range of countries across the world this international book transcends national curricula and highlights global issues problems and trends in biology literacy **Chapter Resource 26 Plant Growth/Developmental Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Holt Biology: Meiosis and sexual reproduction, 2003 **Chapter Resource 5 Photosynthesis/Cell Response Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Chapter Resource 43 Reproduction/Developmental Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Index Medicus**, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Assessing Science Understanding Joel J. Mintzes, James H. Wandersee, Joseph D. Novak, 2005-08-22 Recent government publications like Benchmarks for Scientific Literacy and Science for all Americans have given teachers a mandate for improving science education in America What we know about how learners construct meaning particularly in the natural sciences has undergone a virtual revolution in the past 25 years Teachers as well as researchers are now grappling with how to better teach science as well as how to assess whether students are learning *Assessing Science Understanding* is a companion volume to *Teaching Science for Understanding* and explores how to assess whether learning has taken place The book discusses a range of promising new and practical tools for assessment including concept maps vee diagrams clinical interviews problem sets performance based assessments computer based methods visual and observational testing portfolios explanatory models and national examinations **Cr 9 DNA** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Textbook of Diabetes Richard I. G. Holt, Clive Cockram, Allan Flyvbjerg, Barry J. Goldstein, 2011-07-26 Over three editions the *Textbook of Diabetes* has built a reputation as a book that is extremely well organized and easy to navigate with exceptional illustrations and an excellent blend of clinical and scientific content Previously edited by John Pickup and Gareth Williams this fourth edition has four brand new editors from across the globe The editors have assembled an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world The new *Textbook of Diabetes* has been restructured into 12 parts in one accessible volume and is designed with the busy diabetes care team in mind As well as retaining the elements that have made it such a popular brand such as the

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The Journal of Cell Biology ,1998 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972

Atlas of Chick Development Ruth Bellairs,Mark Osmond,2014-05-19 The Atlas of Chick Development Third Edition a classic work covering all major event of chick development is extensively updated with new and more detailed photographs enlargements showing regions of special interest and complexity and new illustrations The revised text and expanded illustrative material describe the intricate changes that take place during development together with accounts of recent experimental and molecular research that has transformed our understanding of morphogenesis These wide ranging updates make this book an essential resource for developmental biologists geneticists molecular biologists poultry scientists biochemists immunologists and other life scientists who use the chick embryo as their research model Individuals joining this burgeoning area ignited by the increased insight into events surrounding organ and tissue differentiation will find this a valuable tool to help grow a basic knowledge of morphogenesis Remains the established standard the only book providing a comprehensive description of chick development from fertilization to hatching Contains more than 750 photographs and illustrations including 410 labelled histological sections and 85 new high quality plates showing the major anatomical events from the earliest stages to 13 days of incubation Includes more than 200 labelled and detailed scanning electron micrographs showing various tissues in great detail Leads the reader to important reviews on aspects of this rapidly moving field along with extensive and updated references

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The American Biology Teacher ,1996

From Molecular Genetics to Genomics Jean-Paul Gaudillière,Hans-Jörg Rheinberger,2004-10-07 With the rise of genomics the life sciences have entered a new era This book provides a comprehensive history of molecular genetics and genomics

Te HS&T J Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02

The Present and Future of Immunology Education Andrea Bottaro,Deborah M. Brown,John Gregory Frelinger,2022-01-24 The explosion of basic and applied immunology in the first decades of the 21st century has brought forth new opportunities and challenges for immunology education at all academic levels from professional to undergraduate medical graduate and post graduate instruction Moreover developing methods and techniques for educating

general audiences on the importance and benefits of immunology will be critical for increasing public awareness and support. One major immediate challenge consists in accommodating within the confines of traditional immunology curricula a body of knowledge that continues to grow exponentially in both size and complexity. Furthermore, the practical toolbox of immunological research has vastly expanded and even in the present environment of highly interdisciplinary and collaborative science, future immunologists will likely need to be at least conversant in, for instance, computational, structural, and system biology, nanotechnology, and tissue engineering. At the same time, our perspective of the immune system has progressively developed from primarily a host defense mechanism to a fundamental homeostatic system with organism-wide physiological and clinical significance and with potentially transformative biotechnological and therapeutic applications. As a consequence, in addition to stand-alone courses, immunology is increasingly integrated into other courses or distributed longitudinally throughout a multi-year curriculum. This necessitates interdisciplinary approaches to reach an expanding range of disciplines as diverse as neurobiology, cancer biology, oncology, infectious diseases, pharmacology, orthopedics, and bioengineering. Creative approaches and pedagogical flexibility will be needed to avoid the pitfall of one size fits all instruction and to tailor level and discipline appropriate content to different types of students using multiple teaching formats. Finally, like most other disciplines, immunology education is also under strong pressure to introduce new didactic strategies that are relevant and meaningful to a generation of students who are digital natives, comfortable with and expect on-demand and multi-modal learning, diversified sources, and active engagement. Thankfully, the dynamic and interactive behavior of immune system cells, now visualized with striking immediacy by in vivo imaging, has the ability to capture and hold the interest of even the most jaded learner. The need for an increasingly immunology knowledgeable workforce, not just academic and industry scientists but also clinical and research lab technicians, biomedical engineers, and physicians in a growing array of specialties, will also expand job opportunities for immunologists as educators and for content creators dedicated to generating new didactic tools in this field.

Acknowledgement: We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies (IUIS). The Software Encyclopedia, 1986. **Cold Spring Harbor Symposia on Quantitative Biology**, Cold Spring Harbor Laboratory of Quantitative Biology, 1933.

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