

## IMPORTANCE

- Physiological control system that maintains internal environment within narrow limits
- ENZYMES**
  - Enzymes, molecules
- CELLS**
  - If it 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 - blood glucose

## INFLUENCING FACTORS

- Diet - absorbing the nutrients
- Physiological - stress, illness, mood, etc.
- Genes/enzymes

# HOMEOSTASIS Pt. 1

## DIABETES - A TYPE OF PANCREAS [T1DC]

- type of long-term
- when combining with physiological response
- change in body function of the glucose molecules
- change in blood glucose + change in insulin + glucose in blood
- in the insulin case, part of the response is to
- in high insulin case, release into the bloodstream, it is glucose molecules, change

### TYPE 1

RESULTS IN:

- increased production of insulin
- increased insulin
- increased glucose in the blood

## DIABETES - A TYPE OF PANCREAS [T2DC]

- type of long-term
- when combining with blood glucose
- insulin in the blood is not enough
- insulin released the body's glucose in the blood
- insulin released the body's glucose in the blood

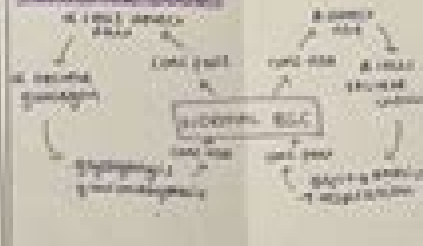
## PROPERTIES

- produced by endocrine glands + secreted during into blood plasma
- change in target cell
- binds to receptor on target cell + complementary
- produced in small quantities
- wide spread and long-lasting effects

## SECOND MESSENGER MODEL

- used by 12 hormones: Adrenaline, Oestrogen
- binding of hormone to transmembrane protein receptor causes signal to be passed inside
- stimulates the enzyme, which activates the 2nd messenger
- 2nd messenger is protein kinase enzyme, changes the shape + activity of
- responsible for conversion of glucose to glucose and the blood, T1DC

## FEEDBACK LOOP



## TYPE OF DIABETES

### TYPE 1

- autoimmune disease
- glucose levels are rising
- it does not respond
- decreased insulin
- insulin in the blood
- hyperglycaemia

### TYPE 2

- more common and appears in middle age
- glucose in the blood
- glucose in the blood
- decreased insulin
- hyperglycaemia and increasing
- glucose levels change

## LIVER - REGULATING BLOOD SUGAR

### GLYCOGENOLYSIS - GLUCOSE -> GLYCOGEN

- when BGC is higher than normal
- insulin released into blood
- causes glucose to be stored
- BGC decreases

### GLYCOGENOLYSIS

- production of glucose from glycogen + amino acids

### GLYCOGENOLYSIS - GLYCOGEN -> GLUCOSE

- when BGC is lower than normal
- glucose released into the bloodstream
- causes a rise in glucose molecules
- increasing glucose

## CONTROL OF DIABETES

Treatment for T1: insulin therapy - high insulin (insulin in the blood) and low glucose - low insulin (hyperglycaemia) and high glucose - low insulin (hypoglycaemia)

Treatment for T2: lifestyle - less sugar in the diet and more exercise - more insulin in the blood and more glucose in the blood (hyperglycaemia) and less glucose in the blood (hypoglycaemia)

# Concept Mapping Cell Growth And Division Holt Bio

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Reproduction/Developmental Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004      **Biology** Holt  
Rinehart & Winston,Holt, Rinehart and Winston Staff,2004      Holt Biology: Meiosis and sexual reproduction ,2003

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Index Medicus ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings      Holt Science and  
Technology Holt Rinehart & Winston,2004-02      **Cr 9 DNA** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

**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 inter disciplinary 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

**Cold Spring Harbor Symposia on Quantitative Biology** Cold Spring Harbor Laboratory of Quantitative Biology,1933

**Light and Video Microscopy** Randy O. Wayne,2010-07-28 The purpose of this book is to provide the most comprehensive easy to use and informative guide on light microscopy Light and Video Microscopy will prepare the reader for the accurate interpretation of an image and understanding of the living cell With the presentation of geometrical optics it will assist the reader in understanding image formation and light movement within the microscope It also provides an explanation of the basic modes of light microscopy and the components of modern electronic imaging systems and guides the reader in determining the physicochemical information of living and developing cells which influence interpretation Brings together mathematics physics and biology to provide a broad and deep understanding of the light microscope Clearly develops all ideas from historical and logical foundations Laboratory exercises included to assist the reader with practical applications Microscope discussions include bright field microscope dark field microscope oblique illumination phase contrast microscope photomicrography fluorescence microscope polarization microscope interference microscope differential interference microscope and modulation contrast microscope

**Bibliography of Agriculture** ,1976 **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 **Comparative Ecology of Microorganisms and Macroorganisms** John H. Andrews,2017-06-27 This second edition textbook offers an expanded conceptual synthesis of microbial ecology with plant and animal ecology Drawing on examples from the biology of microorganisms and macroorganisms this textbook provides a much needed interdisciplinary approach to ecology The focus is the individual organism and comparisons are made along six axes genetic variation nutritional mode size growth life cycle and influence of the environment When it was published in 1991 the first edition of Comparative Ecology of Microorganisms and Macroorganisms was unique in its attempt to clearly compare fundamental ecology across the gamut of size The explosion of molecular biology and the application of its techniques to microbiology and organismal biology have particularly demonstrated the need for interdisciplinary understanding This updated and expanded edition remains unique It treats the same topics at greater depth and includes an exhaustive compilation of both the most recent relevant literature in microbial ecology and plant animal ecology as well as the early research papers that shaped the concepts and theories discussed Among the completely updated topics in the book are phylogenetic systematics search algorithms and optimal foraging theory comparative metabolism the origins of life and

evolution of multicellularity and the evolution of life cycles From Reviews of the First Edition John Andrews has succeeded admirably in building a bridge that is accessible to all ecologists Ecology I recommend this book to all ecologists It is a thoughtful attempt to integrate ideas from and develop common themes for two fields of ecology that should not have become fragmented American Scientist Such a synthesis is long past due and it is shameful that ecologists both big and little have been so parochial The Quarterly Review of Biology      *Applied Science & Technology Index* ,1996      **The Software Encyclopedia** ,1986

The Top Books of the Year Concept Mapping Cell Growth And Division Holt Bio The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read :

Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

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Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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