

## Biology – Chapter 5 Study Guide

### Overview: The Molecules of Life

- Within cells, small organic molecules are joined together to form larger molecules
- These large macromolecules may consist of thousands of covalently bonded atoms and weigh more than 100,000 Daltons.
- The four major classes of macromolecules are carbohydrates, lipids, proteins, and nucleic acids

### Concept 5.1 Most macromolecules are polymers, built from monomers

- Three of the four classes of macromolecules – carbs, proteins, and nucleic acids – form chainlike molecules called polymers
  - A polymer is a long molecule consisting of many similar or identical building blocks linked by covalent bonds
  - Their repeated units are small molecules called **monomers**
  - Some of the molecules that serve as monomers have other functions of their own
- The chemical mechanisms that cells use to make and break polymers are similar for all classes of macromolecules
- Monomers are connected by covalent bonds that form through the loss of a water molecule. This reaction is called a **condensation reaction** or **dehydration reaction**
  - When a bond forms between two monomers, each monomer contributes part of the water molecule that is lost. One monomer provides a hydroxyl group (-OH), while the other provides a hydrogen (-H).
  - Cells invest energy to carry out dehydration reactions
  - The process is aided by enzymes
- The covalent bonds connecting monomers in a polymer are disassembled by **hydrolysis**, a reaction that is effectively the reverse of dehydration
  - In hydrolysis, bonds are broken by the addition of water molecules. A hydrogen atom attaches to one monomer, and a hydroxyl group attaches to the adjacent monomer
  - Our food is taken in as organic polymers that are too large for our cells to absorb. Within the digestive tract, various enzymes direct hydrolysis of specific polymers. The resulting monomers are absorbed by the cells lining the gut and transported to the bloodstream for distribution to body cells
  - The body cells then use dehydration reaction to assemble the monomers into new polymers that carry out function specific to the particular cell type

*An immense variety of polymers can be built from a small set of monomers*

- Each cell has thousands of different kinds of macromolecules
  - These molecules vary among cells of the same individual. They vary more among unrelated individuals of a species, and even more between species
- This diversity comes from various combinations of the 40-50 common monomers and some others that occur rarely
  - These monomers can be connected in a great many combinations, just as the 26 letters in the alphabet can be used to create a great diversity of words

### Concept 5.2 Carbohydrates serve as fuel and building material

- Carbohydrates include sugars and their polymers

# Biology Ch 44 Guide

**Alok Sharma**



## **Biology Ch 44 Guide:**

*Which Degree Guide*, 2003      **A Practical Guide to Third Trimester of Pregnancy & Puerperium** Alok

Sharma, 2016-04-30 A Practical Guide to Third Trimester of Pregnancy Puerperium is a comprehensive resource for the management of the final stage of pregnancy and its complications. Divided into 78 chapters, the book begins with chapters on risk management in obstetrics, a general introduction, and information on physiological changes during the third trimester of pregnancy. Further chapters cover care guidelines, clinical understanding, and recent advances in management of the third trimester. Complications covered include pre-term labour, pre-labour rupture of membranes, post-term pregnancy, placental adhesive disorders, and umbilical cord abnormalities. Chapters in the second half of the book cover disorders that may be associated with third trimester pregnancy, including gastrointestinal, endocrinal, thromboembolic, and psychiatric disorders. A Practical Guide to Third Trimester of Pregnancy Puerperium is enhanced by over 120 images and tables providing quick reference information for obstetricians and gynaecologists. Key Points Comprehensive resource for the management of third trimester complications. Covers a broad range of disorders, including associated gastrointestinal, vascular, and psychiatric disorders. 124 images and illustrations. Havard's Nursing Guide to Drugs Adriana Tiziani, 2013-06-01 This ninth edition of Havard's Nursing Guide to Drugs e-book continues to provide reliable, accurate drug information for nursing and midwifery students and practitioners. All content in this must-have nursing drug handbook is tailored for nurses and midwives in Australia and New Zealand. User-friendly and fully up-to-date, this indispensable nursing e-book delivers safe drug administration information regarding form, action, use, dose, adverse effects, and interactions in compliance with current pharmaceutical guidelines by the Therapeutic Goods Association (TGA). Each therapeutic drug class features a detailed description followed by an A-Z of drugs within that class. Important Nursing points and cautions throughout this edition highlight best practice in drug administration. Patient teaching and advice has been included to emphasise an essential part of care within a multidisciplinary team. This e-book edition also features icons that indicate drug cautions during pregnancy and breastfeeding, and another that indicates drug-specific restrictions in sport. A bestselling Elsevier textbook, Havard's Nursing Guide to Drugs has been the premier drug guide for nurses and midwives since 1983. Havard's Nursing Guide to Drugs 9th edition will also be available for separate purchase as an app (iOS and Android) and provides an easy reference, searchable version of the text in mobile format for students and practitioners to carry with them during clinical practice. Also available for separate purchase to be used alongside the Havard's Nursing Guide to Drugs app will be the Tiziani Drug Calculations app. When both apps are purchased, the user will be able to share function content and data between the two applications. This link will provide cross-reference from the text to case studies and drug calculation MCQs, placing the pharmacology in a clinical context. Havard's Nursing Guide to Drugs 9e app and the Tiziani Drug Calculations app will be available for purchase in December 2013. Drugs listed by therapeutic class and by body system. Both trade names and generic

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