

BIOCHEMISTRY NOTES

Based on YouTube videos by Pass The Dental Boards + some online/book research + DO = THIS IS ALL YOU NEED TO KNOW ABOUT BIOCHEM!

Watch these videos & compare to the notes (not available in full anymore, but they might still help):

<https://www.youtube.com/watch?v=5Uc347uLooQ&list=PLK0Uy0e00>

Abbreviations: E = enzyme, [X] = concentration of substance X, e = electrons, MC = most common

There are some really stupid mnemonics, but whatever helps, right? ☹ Please, don't feel offended. Print it out, I added important pictures at the end, it helps if you are reading the notes and having a picture right next to you to compare different processes (for example, Krebs cycle picture with the notes). You have to read the file

MULTIPLE times, I don't know how to do magic by remembering things after one read :| I left some space at the end for your own notes, under the pictures.

Keep working hard, you got this!

Paulina

LIPIDS

1. Types

- Fatty acids (FA)
- Triglycerides (TG) = Triacylglycerols (TAG)
- Phospholipids
- Lipoproteins
- Sphingolipids



2. FATTY ACIDS

- 2 essential FA:
 - **Linoleic acid (18:2)**
 - **α -linolenic acid (18:3)**
 - Both can lead to production of: **arachidonic acid (20:4)** → prostaglandins (PG)
- Names:
 - 12C lauric acid
 - 14C myristic acid
 - 16C palmitic acid (palmitate)
 - 18C stearic acid → 18:1 oleic acid (oleate) → 18:2 linoleic acid (linoleate) → 20:4 arachidonic acid
 - 20C arachidic acid (often as a distractor!)
- MNEUMONIC for saturated FA (the ones "18:X" are unsaturated): **Lauri, driving with MyWrist, change to palms to steer, spider attacks!**
 - A girl named Lauri is driving a car with "my wrists" (her wrists), then changes to palms to steer the wheels and all of the sudden a spider attacks = lauric, myristic, palmitic, stearic, arachidic

3. TAG

- Ester linkage; lipase via hydrolysis → FA + glycerol
- Adipose tissue

4. SPHINGOLIPIDS (glycolipids)

- Ceramide: simplest, parent molecule, X = H
- Cerebroside: X = glucose (glycolipid)
- Ganglioside: X = a bunch of sugars (glycolipid)
- Sphingo**myelin**: X = **choline**

Gang of sugars

accumulated in Niemann-Pick; yields sphingosine, choline, FA, phosphoric acid

5. PHOSPHOLIPIDS

- 2 major types
 - **Lecithins = phosphatidylcholine (PC)**
 - **Cephalins = phosphatidylethanolamine (PE)**
- Lecithins: most common (MC) phospholipid in bilayer membranes; yields 1 glycerol, 1 phosphate group, 1 choline, 2 FA
- **Choline:**
 1. Sphingolipid → sphingomyelin
 2. Phospholipid → phosphatidylcholine (PHAT = fat)Both ↑↑↑ in outer leaf membrane
 - Choline has a **lipotropic effect** on fatty liver (helps metabolizing fat by exporting fat from the liver)
 - Choline → **betaine** (metabolite) = important in **methylation**

Lecture Notes Clinical Biochemistry

**Peter Rae, Mike Crane, Rebecca
Pattenden**



Lecture Notes Clinical Biochemistry:

Lecture Notes: Clinical Biochemistry Geoffrey Beckett, Peter Rae, Peter Ashby, 2010-02-08 The new edition of the best selling Lecture Notes title is a concise introduction to clinical biochemistry that presents the fundamental science underpinning common biochemical investigations used in clinical practice Lecture Notes Clinical Biochemistry allows the reader to make efficient and informed use of the diagnostic services offered by their clinical biochemistry department The result is a text that serves as a reference to the practitioner as well as the student The book takes a system based approach with the underlying physiological rationale for any test explained in the context of disruption by disease This leads naturally to an integrated and practical understanding of biochemical diagnostics Including multiple choice questions MCQs alongside end of chapter case studies to help develop test selection skills Lecture Notes Clinical Biochemistry provides the essential background to biochemical investigations and is an ideal course companion and revision guide for medical students junior doctors on the Foundation Programme general practitioners and nurses and laboratory technicians

Clinical Biochemistry Peter Rae, Mike Crane, Rebecca Pattenden, 2017-07-13 Clinical Biochemistry Lecture Notes presents the fundamental science behind common biochemical investigations used in clinical practice Taking a system based approach it explores the underlying physiological rationale for tests with each test explained within the context of disruption by disease It also explores the value and limitations of biochemical investigations while helping readers to quickly develop the knowledge and skills required to select the appropriate investigations for diagnosis and management and to correctly interpret test results Case studies throughout chapters place the information within a clinical context to further assist readers in the development of test selection and interpretation skills Key features include A comprehensive yet concise overview of the science behind common biochemical investigations Helps readers rapidly acquire a fully integrated practical understanding of biochemical diagnostics Full colour flowcharts and algorithms detailing the rationale for tests the biochemical processes involved and test procedures for quick comprehension and reference More clinical cases demonstrating application to practice Now in its tenth edition this classic introductory reference and revision text is indispensable to medical students and all those who want to quickly acquire a practical understanding of the scientific principles underpinning biochemical tests and a working knowledge of test selection test procedures and the interpretation of results within a clinical context

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Beckett,2003 **Lecture Notes on Clinical Biochemistry** Epz Smith,Smith Et.Al,2004-01-01 **Clinical Biochemistry**

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diagnostic service Presents topics in easily accessible two page spreads Includes mini case histories key point boxes flowcharts and summary points Well illustrated with four color drawings and clinical photographs New appendix added of annotated web resources for students to take further many of the topics covered in the book To reflect the difficulties people have sometimes in analyzing hyper and hypo kalaemia the existing spread is split into two one spread on hyperkalaemia and another on hypokalaemia The spread on hypertension will be revised and updated to reflect the fact that biochemistry is used as much or more in guiding treatment as it is in screening for secondary hypertension Spreads on Myocardial Infarction Cancer and Tumour Markers will all substantially revised and updated

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Whitby, I. W. Percy-Rubb, 1975

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Table of Contents Lecture Notes Clinical Biochemistry

1. Understanding the eBook Lecture Notes Clinical Biochemistry
 - The Rise of Digital Reading Lecture Notes Clinical Biochemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Lecture Notes Clinical Biochemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lecture Notes Clinical Biochemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lecture Notes Clinical Biochemistry

- Personalized Recommendations
 - Lecture Notes Clinical Biochemistry User Reviews and Ratings
 - Lecture Notes Clinical Biochemistry and Bestseller Lists
5. Accessing Lecture Notes Clinical Biochemistry Free and Paid eBooks
 - Lecture Notes Clinical Biochemistry Public Domain eBooks
 - Lecture Notes Clinical Biochemistry eBook Subscription Services
 - Lecture Notes Clinical Biochemistry Budget-Friendly Options
 6. Navigating Lecture Notes Clinical Biochemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - Lecture Notes Clinical Biochemistry Compatibility with Devices
 - Lecture Notes Clinical Biochemistry Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lecture Notes Clinical Biochemistry
 - Highlighting and Note-Taking Lecture Notes Clinical Biochemistry
 - Interactive Elements Lecture Notes Clinical Biochemistry
 8. Staying Engaged with Lecture Notes Clinical Biochemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lecture Notes Clinical Biochemistry
 9. Balancing eBooks and Physical Books Lecture Notes Clinical Biochemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lecture Notes Clinical Biochemistry
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Lecture Notes Clinical Biochemistry
 - Setting Reading Goals Lecture Notes Clinical Biochemistry
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Lecture Notes Clinical Biochemistry

- Fact-Checking eBook Content of Lecture Notes Clinical Biochemistry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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