

# 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=5Uc347uLwQ8&list=PL9C6dUy0e00>

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)**
  - **$\alpha$ -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 = phosphatidyl**choline** (PC)**
  - **Cephalins = phosphatidyl**etanolaine** (PE)**
- Lecithins: most common (MC) phospholipid in bilayer membranes; yields 1 glycerol, 1 phosphate group, 1 choline, 2 FA
- **Choline**:
  1. Sphingolipid → sphingo**myelin**
  2. Phospholipid → phos**PHAT**idyl**choline** (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

**Annelies Wilder-Smith**



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