

# 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=PL9C6Dy5d500>

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 = 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

**Patrick Vollmar**



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**build a temperature and or humidity controlled fan with a picaxe 08m2** - Aug 07 2023

web sep 25 2017 a picaxe 08m2 microcontroller and an hih6030 sensor team up to easily control a ventilation fan using temperature or humidity or both we use a ventilation fan when we want to move air

[a simple 2 hour picaxe project play tunes with an 08m2](#) - Oct 09 2023

web step 1 picaxe project parts list 1 picaxe 08m2 microcontroller 1 8 ohm speaker or 40 ohm speaker and omit the 33 ohm resistor when using 40 ohms 1 8 pin ic socket 1 3mm stereo jack 1 22k ohm resistor 1 33 ohm resistor 3 10k ohm resistors 1 two position dip switch or equivalent switches