

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=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)**
 - **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

**Alistair Fairley Smith, Geoffrey J.
Beckett, Simon W. Walker, Peter W.H.
Rae**

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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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web mar 27 2019 vous trouverez ici une proposition de grille pour évaluer soi ou une autre personne l'exposer oral de l'épreuve d'eps au crpe elle permet de pointer les éléments transversaux aux apsa et aux cycles attention certains éléments ne répondent pas à tous les types de sujets comme par exemple proposer une séquence

l'épreuve de cse et d'eps du crpe 2014 2021 - Apr 02 2023

web l'épreuve de cse eps officiellement dénommée entretien à partir d'un dossier est la deuxième épreuve orale du crpe cet oral 2 en 1 est une épreuve éprouvante puisqu'elle dure en tout 4 heures et 15 minutes 3 heures de

Épreuve orale d'admission entretien avec le jury des concours - Sep 07 2023

web depuis la session 2022 l'une des épreuves d'admission des concours de recrutement de professeurs des écoles crpe ainsi que des concours externes et des troisièmes concours du capes du capeps du capet du caplp et de recrutement des conseillers principaux d'éducation consiste en un entretien avec le jury

concours externes concours externes spéciaux seconds - Jan 31 2023

web chaque activité est l'occasion d'une expression orale par anticipation en situation a posteriori ou de façon décontextualisée objectifs visés et éléments de progressivité À leur arrivée à l'école maternelle tous les enfants ne sont pas au même niveau de développement moteur

les épreuves des concours de recrutement de professeurs des écoles - Nov 28 2022

web tous les concours de recrutement de professeurs des écoles crpe se déroulent en deux phases l'admissibilité et l'

admission l admissibilité est composée d une ou plusieurs épreuves écrites selon le concours et l admission d une ou plusieurs épreuves orales mise à jour septembre 2023

exemples de sujets et notes de commentaires des épreuves des - Apr 21 2022

web Épreuve de leçon crpe note de commentaire relative à l épreuve de leçon en français et en mathématiques 1ère épreuve d admission pdf 801 36 ko deuxième épreuve d admission crpe note de commentaire relative à la première partie de l épreuve d entretien 2ème épreuve d admission pdf 518 84 ko

l épreuve orale d entretien du crpe vocation crpe - Jul 25 2022

web l épreuve orale d entretien du crpe comment se déroule l épreuve orale d entretien du concours crpe nouveauté de la réforme du crpe 2022 l épreuve orale d entretien est l une des deux épreuves orales obligatoires du concours avec l épreuve de leçon

épreuves orales du concours crpe vocation crpe - Mar 01 2023

web l épreuve orale d entretien dure 1 heure 05 avant cela 30 minutes de préparation sont accordées au candidat pour vous aider à organiser votre temps au mieux gardez en tête le timing suivant pour l eps préparation 30 minutes exposé 15 minutes entretien 15 minutes pour cse et motivation 35min d échanges

crpe deuxième épreuve orale eps et entretien alsace - May 23 2022

web durée totale de l épreuve orale 1 heure 05 30 minutes pour la première partie eps et 35 minutes pour la seconde partie l épreuve est notée sur 20 coefficient 2 10 points pour la première partie eps 10 points pour la deuxième partie la note 0 obtenue à l une ou l autre des deux parties est éliminatoire

objectif crpe 2022 épreuve orale eps développement de l - Mar 21 2022

web aug 25 2021 toutes les informations essentielles pour comprendre les enjeux du nouveau concours et de la nouvelle épreuve orale d entretien les méthodes clés pour préparer son entretien convaincre à l oral les programmes et les enjeux de l eps avec l essentiel à connaître pour mener un cours d eps et assurer la sécurité des élèves

l épreuve orale d entretien du crpe objectif crpe - Oct 28 2022

web quel est le programme de l épreuve d entretien du crpe pour la première partie éducation physique et sportive vous devez maîtriser les programmes d eps du cycle 1 à 3 ainsi que la méthodologie de construction de séquences et séances en eps

concours professeur des écoles Épreuve d entretien dunod - Sep 26 2022

web ce manunel permet de préparer de façon complète l épreuve d entretien qui comporte deux parties eps exposé d une proposition de situation s d apprentissage entretien avec le jury motivation du candidat aptitude à se en savoir plus parution août 2022 collection je prépare marque dunod les en ligne

l'épreuve d'eps au crpe maîtresse jéro - Aug 26 2022

web apr 21 2021 les épreuves de cse et d'eps se font dans le même oral vous avez 3h pour préparer les deux et l'oral dure 1h15 30 min d'eps 10 min d'exposé 20 min de questions 45 min de cse 15 min d'exposé 30 min d'entretien l'eps est notée sur 40 points et la cse sur 60 points

les épreuves du concours externe du troisième concours et du - Oct 08 2023

web les épreuves des concours externes des seconds concours et des troisièmes concours de recrutement de professeurs des écoles crpe se composent de 3 épreuves écrites d'admissibilité et de 2 épreuves orales d'admission

objectif crpe 2023 réussir l'épreuve orale d'entretien - Feb 17 2022

web toutes les informations essentielles pour comprendre les enjeux du nouveau concours et de la nouvelle épreuve orale d'entretien les méthodes clés pour préparer son entretien convaincre à l'oral les programmes et les enjeux de l'eps avec l'essentiel à connaître pour mener un cours d'eps et assurer la sécurité des élèves