

BIO101 TEST GUIDE (#1)

LO1 - Life Science

- LO: Describe elements of research design and how they impact conclusions
 - sample size, randomization, double blind, strengths & weaknesses
 - caveation @ causation
- LO: Formulate testable hypothesis & design controlled exp
- LO: Distinguish science from unjustified claims

LO2 - Macromolecules

- LO: name & explain 6 major themes of biology
- LO: classify polysaccharides based off their structure/function in plants/animals & describe how formed
 - 4 major macromolecules (biological polymers) in cell:
 - Carbohydrates (monosaccharide + monosaccharide $\rightarrow$ polysaccharide + H_2O)
 - Lipids
 - Proteins
 - Nucleic Acids



- | 4 polysaccharides |
|-----------------------------------|
| 1. Starch: Storage in plants |
| 2. Glycogen: Storage in animals |
| 3. Cellulose: Structure in plants |
| 4. Chitin: Structure in animals |

Hydrolysis & Dehydration Reactions

- Hydrolysis: breaks polymers into monomers by adding H_2O
- Dehydration reaction: links monomers together, H_2O released



- LO: define lipids & explain their functions & properties in polar/nonpolar

Lipids = nonpolar & hydrophobic

4 important types of lipids: fats, phospholipids, cholesterol, and steroids

1. Fats (monomer = glycerol & fatty acids) (aka. a triglyceride = "3" & "glycerol")

unsaturated fats/triglycerides: hydrocarbon chain has 1+ double bond (can't pack tight $\therefore$ liquid)

saturated fats/triglycerides: no double bonds (can pack easily $\therefore$ solid)

2. Phospholipids (hydrophilic head (glycerol + phosphate mol) + 2 hydrophobic tails)

"amphiphilic" molecule



form phospholipid bilayer



hydrocarbon fatty acids

- LO: draw protein structure & depict the consequence of mutations on normal structure & function

Proteins' monomers are amino acids. Amino acid + amino acid = dipeptide

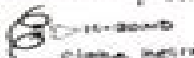
1. Primary structure in proteins = just the sequence of the amino acids in order



amino acid

peptide bonds b/w amino group of 1 amino acid & carboxyl of another

2. Secondary structure in proteins = H-bonds b/w amino group of 1 amino acid & carboxyl of another



alpha helix



beta pleated

3. Tertiary structure in proteins = overall 3-D shape of polypeptide due to R-group interactions b/w amino acids

4. Quaternary structure (NOT ALL HAVE) $\rightarrow$ R-group interactions b/w multiple polypeptide chains



interactions b/w R-groups (close acids)



see mutated amino acid can affect/ruin the entire polypeptide structure & $\therefore$ function

one incorrect/misplaced amino acid can make protein defective bc specific R-groups & orders cause each protein's unique folds & functions

- LO: identify how human body uses macromolecules from food

Eat for 2 reasons:

- Raw organic macromolecular materials for building our own macromolecules
- Energy for cellular work

Study Guide For Biology Teaching Exam

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test questions a sample essay and answer rationales is also provided for additional study **Cset Biology-Life Science 120, 124 Teacher Certification Test Prep Study Guide** Sharon A. Wynne, 2008 Annotation I just got back from the 120 subtest for Biology Life Science and I was very disappointed with this book The book and practice test was not even close to preparing me for the test Luckily I had already studied the biology portion when I took the PCAT not too long ago This book was way too basic compared to the kinds of questions that were asked They seem to be more conceptual as can you interpret the information you just learned into the answer You re pretty much better off learning from an AP Biology study book

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web the continent is divided into six geographic sub regions central asia east asia north asia south asia southeast asia and west asia these regions are defined by their cultural similarities including common religions languages and ethnicities

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web there are 48 countries in asia today according to the united nations the full list is shown in the table below with current population and subregion based on the united nations official statistics

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web updated nov 3 2023 5 38 pm sg singapore s wealthy are the least satisfied with their current work life balance when compared with their peers in other parts of the asia pacific according to a

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web nov 2 2023 lisa who is from thailand made her debut as a blackpink member in 2016 blackpink member lisa s account on chinese social media platform weibo has been blocked amid speculation it s do with her

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web nov 2 2023 asia the world s largest and most diverse continent it occupies the eastern four fifths of the giant eurasian landmass asia has both the highest and the lowest points on the surface of earth has the longest coastline of any continent and is subject overall to the world s widest climatic extremes

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complete with snow capped peaks volcanoes and a vast gastronomic culture

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web 2 days ago this is cnbc s live blog covering asia pacific markets hong kong street scene mongkok district with busses
nikada e getty images asia pacific markets were set to open higher at the end

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web jun 26 2022 pope francis announced the year of amoris laetitia family during his angelus message on the feast of the holy family on december 27 2020 he ended his address by invoking the blessed mother may the virgin mary grant that families throughout the world be increasingly fascinated by the evangelical ideal of the holy family so as to

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web starts at 9 30 am arrival at atatürk international airport of istanbul

pope francis declares jubilee year for the first pope who quit - Jul 15 2023

web jul 8 2014 on july 5 2014 pope francis declared a year of jubilee this concept originated in the hebrew bible s book of leviticus and offers a special occasion for the remission of sins and divine pardon it is a kind of gift from god to humankind which in a catholic context may be instituted by the pope

pope francis proclaims year of st joseph catholic news agency - Dec 28 2021

web dec 8 2020 pope francis announced a year of st joseph tuesday in honor of the 150th anniversary of the saint s proclamation as patron of the universal church the year begins dec 8 2020 and concludes on

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web feb 11 2022 pope francis has set in motion the preparations for the jubilee year 2025 which he believes can contribute greatly to restoring a climate of hope and trust as a prelude to the renewal and

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web starts at 12 00pm pope francis apostolic journey to turkey begins the papal plane lands at ankara s esemboga airport

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web the pope along with the government of canada was a behind the scenes broker of the agreement taking the role following president obama s request during his visit to the pope in march 2014

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web pope eugene iv latin eugenius iv italian eugenio iv 1383 23 february 1447 born gabriele condulmer was head of the

catholic church and ruler of the papal states from 11 march 1431 to his death in february 1447 condulmer was a venetian and a nephew of pope gregory xii in 1431 he was elected pope his tenure was marked by conflict first

what will pope francis proclaim the year of 2014 to be - Aug 16 2023

web oct 30 2013 the liturgical year of faith 2013 is winding down and one can't help speculating what pope francis will proclaim the year 2014 to be let's first start with the secular fantasy wish list 1 transformation of the church of course not society 2 non judgment of morality of course not the holy church 3

pope francis launches consultation on church reform bbc news - Jun 02 2022

web oct 10 2021 pope francis has launched what some describe as the most ambitious attempt at catholic reform for 60 years a two year process to consult every catholic parish around the world on the future

pope francis names 2014 year of terror eott llc - Jun 14 2023

web nov 24 2013 vatican in his general audience today pope francis announced that he would be naming 2014 the year of terror since it is difficult to balance the various challenges of the papacy while finding time to decide what to call this upcoming year i have decided that the year of terror best represents what we ought to be focusing on

pope francis proclaims year of st joseph vatican news - Oct 06 2022

web dec 8 2020 with the apostolic letter patris corde with a father's heart pope francis recalls the 150th anniversary of the declaration of saint joseph as patron of the universal church to mark the occasion the holy father has proclaimed a year of saint joseph from today 8 december 2020 to 8 december 2021

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web jan 1 2015 in 2014 pope francis inserted himself as a peacemaker into the israeli palestinian conflict during a landmark trip to the middle east he also played a key role in mending us cuba relations the pope has taken multiple actions to make catholic churches much more gay friendly

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web the pope latin papa from greek πάππας romanized páppas lit father 2 3 also known as the supreme pontiff pontifex maximus or summus pontifex roman pontiff romanus pontifex or sovereign pontiff is the bishop of rome or historically the patriarch of rome 4 head of the worldwide catholic church and has also

general audience of 15 january 2014 francis vatican - Jan 09 2023

web jan 15 2014 pope francis general audience saint peter's square wednesday 15 january 2014 video dear brothers and sisters good morning last wednesday we started a brief cycle of catecheses on the sacraments beginning with baptism

jubilee in the catholic church wikipedia - May 01 2022

web the pope speaks rather of a celebration which is to occur every 100 years but writers both roman and foreign described

this year as annus jubileus and the name jubilee though others such as the holy year or the golden year have been used as well has been applied to such celebrations ever since 1

francis announces new global jubilee the holy year of mercy - Dec 08 2022

web mar 13 2015 the last extraordinary jubilee year was held in 1983 to celebrate 1 950 years since the death and resurrection of jesus francis on friday said the new jubilee would begin on this year s catholic

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web homilies 2014 celebration of vespers and te deum of thanksgiving for the end of the year 31 december 2014 english french german italian polish portuguese spanish

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web he was crowned as pope on 26 may 1555 by the protodeacon he formally took possession of the basilica of saint john lateran on 28 october 1555 papacy as pope paul iv s nationalism was a driving force he used the office to preserve some liberties in the face of fourfold foreign occupation

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