Printout

Monday, January 23, 2017

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Molecular Biology Through Discovery 
Questionnaire on notes: Strategies of Life 2 
(please press SUBMIT button when finished) 
Please submit your responses no later than 6:00 AM 
the day of class 
Spring 
2017 
I. Basic Information 
A. Your name Ruairidh Barlow 
Il. Old Business (no need to repeat anything you've said in a previous questionnaire if 
nothing's changed) 
A. Practice in distinguishing Results vs conclusions 
Consider the following: 
I. The distinction between: 
o What is true an immutable observation 
o What is merely plausible (perhaps less so tomorrow than today) an 
interpretation. 
2. Finding actual observations within a research article, recognizing that most 
statements in a Results section are assertions, not observations. 
Where are you in these matters? 
Much better after you emailed me. 
B. Comparing articles on Vitamin D (Approach to research articles) 
I. Have you found the research article that serves as the basis of the newspaper 
article assigned to you for Thursday? 
2. Can you make sufficient sense of the article to answer your question? 
3. Have you met with your group (possibly at a distance) and produced a 
summary slide? 
I sent off my information to a group member so that the slide can be made. 
C. The notes on Self assembly 
Consider how comfortable you are with the following topics: 
How the interaction between water molecules determines the interaction 
between (hydrophobic) plastic beads 
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o How the interaction between water molecules determines the interaction 
between (hydrophilic) glass beads 
o How these properties can determine the shapes of complex structures, e.g. 
membranes and proteins 
Do you have any concerns about these matters?> 
D. Exam 1 
Do you have any concerns about the exam?> 
Ill. Strategies of Life 
A. How far have you gotten in the notes Strategies of Life 
? Finished it. 
(You can answer by referring to the last section you read or study question you 
addressed.) 
B. Consider how comfortable you are with the following topics (as defined by the 
notes Strategies of Life): 
o How information passes from DNA through RNA to protein 
o The mechanism by which genes might determine the function of an organism 
o How amphipathic lipids can self-assemble into the sphere shown in Fig. 2B 
o The relationship between monomers and the four major types of biological 
polymers 
o How in general enzymes might determine the nature of a cell 
o Study Questions I through 8 
With this in mind, how could class time best be spent to meet your needs? 
Do you have any other questions concerning the material in the notes? 
I am good to go. This was review Of Cell Biology. 
IV. What is a Gene? (no need to repeat anything you've said in a previous questionnaire 
if nothing's changed but I hope things have) 
A. How far have you gotten in the tutorial What is a Gene and its companion? 
You can answer by referring to the last item you addressed (e.g. 111.3). 
P 7. Consider the first thrt 
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B. Provide a statement that describes as accurately and completely as possible 
your current understanding regarding how a cell determines where a gene 
begins. 
My understanding is that a start codon is usually ATG. However, it can be 
other things that end with a TG, such as T TG and GTG. These usually code for 
proteins . 
Consider how comfortable you are with the following topics (as defined by the 
tour What is a Gene?): 
C. The relationship between a gene and a genome 
D. The coordinate system 
With this in mind, how could class time best be spent to meet your needs? 
I think I have a good understanding of a coordinate system but an in-class 
explanation and walkthrough of how to determine a nucleotide's coordinate 
would be appreciated . 
VII. Miscellaneous 
Any other comments, questions, suggestions, or concerns you may have? 
I think it's neat how the wheels spin on the bicycle in BioBike when it is 
loading. 
Submit 
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