Student Presentations and Final Paper.

The topic of the presentation and paper can be the same and are chosen by the student. Topics must be approved by the instructor. Please submit a title and short description (2-4 sentences) by the topic due date. It is also helpful if you provide the primary article that your presentation is based on.

Any topic that is related to drug action, the treatment of disease by antibody therapeutics, or genome editing will be suitable. Additional topics in the general area of biotechnology may be suitable. Although students can select a topic that is also covered in lecture, they are encouraged to select topics that are not directly covered in lecture. If a topic is selected that was covered in lecture, then the expectation will be for the student to go deeper into that topic or discuss a different aspect of the topic, i.e. the presentation should not be a duplication of the lecture material.

The presentation should have the following structure:
   i) Biological background on the topic, explained at the level of a first-year university student.
   ii) Methodology related to topic and how this can be used to detect/prevent disease (e.g. what process does the drug interfere with),
   iii) Positives and negatives of this treatment and a comparison to other treatments (if applicable).
   The presentation should be a professional powerpoint presentation. Each presentation should be *8 min* followed by one or two minutes for questions. ***Be sure to practice your presentation beforehand so that you can stay within the time limit.***

Feedback on draft slides will be provided, as long as the draft slides are submitted when requested.

Presentations will be judged on the following criteria, for a total of 10 points:
   Length: Each minute past the time limit will reduce the overall score by -1 point/minute
   Form: Slides should be a good balance of text and appropriate illustrations (Score 0 to 3 pts)
   Content: The content should be readily accessible for a first-year university student (Score 0 to 2 pts)
   Clarity: The content should be clearly explained (Score 0 to 3 points)
   Overall Organization: The content should flow in an organized fashion with a clear introduction, content, and then conclusion. (Score 0 to 2 pts)

The accompanying paper should be no more than *2 pages* in length (11 pt font, 1 cm margins, single spaced). Figures should not occupy more than 25% of this space. All external sources should be cited properly. There is no page limit on the citations.

Final papers will be judged in a similar fashion, as follows, for a total of 10 points:
   Length: Papers that are too short or too long will lose 1 pt per ¼ page.
   Form: Paper should be well written, appropriate grammar and spelling (Score 0 to 2 pts)
   Content: The content should be readily accessible for a first-year university student (Score 0 to 2 pts)
   Illustrations: Selected illustrations should support the text and include a short legend (Score 0 to 1 pt)
   Clarity: The content should be clearly explained and easy to follow (Score 0 to 3 points)
   Overall Organization: The content should flow in an organized fashion with a clear introduction, content, and then conclusion. (Score 0 to 2 pts)