

Tuesday Presentations Overview 2024

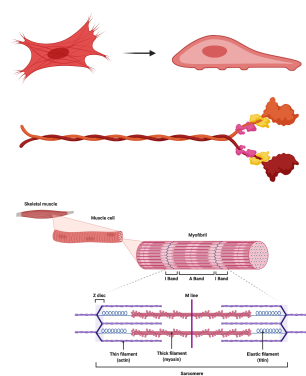
Group of 2-3 students present a talk in THREE parts:

1. Introduction: Overview of the Genomic or proteomic technique

What is it? How does the method work? Step by step may be necessary. What are some applications where you can use this technique? Are any model organisms particular good for this technique and are there any model organisms not optimal for this technique? Explain why? Discuss the advantages and disadvantages of the method? Include any web resources associated with this technique/method? You can include any background history as well. The information here should teach the class something and have them prepared to understand the genomic & proteomic methods and approaches used in the second half of the presentation.

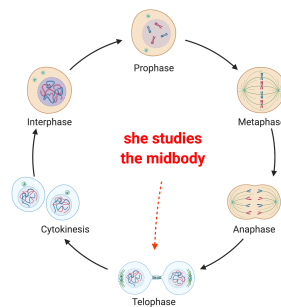
2. **Highlight the scientists behind the science:** The group of two presenters will construct a social media-like visual using Powerpoint/Keynote or just Biorender (biorender.com). The first speaker will communicate who the scientist(s) are with their photographs (group lab photos are encouraged as well), about their science (What is the main focus of their lab?), and possibly 3 main things you learned about the scientists behind the science you discover online that you'd like to share with the class. This slide should be just prior to the second speaker as a transition. Be creative!

Cell Motility & Myosin



Mitosis

Cell division cycle



3. **Primary paper:** Discuss the paper in 3 parts: Introduction to the biology, GAP in knowledge this research is addressing, methods, results (walk the audience through each Figure), discussion and future directions. You may have to use figures found in the supplement of the paper online.

Use this simple slide layout I taught you about during Slide Evolution to help you with your flow:

Use a Question as title of your slide: What is CRISPR?

Image: Place a simple image of how CRISPR works

Summary: Main point of the slide

What is CRISPR?

CRISPR is used to edit genes