

## Biology 12

### Cytology Project



## Cell Organelle Mayoral Campaign

It's time to determine who is the most suited to run the cell!

Chaos has ensued in the once peaceful city of Cellville. The citizens have begun to argue over who has the most important role. Long term mayor, the Honorable Nucleus, is facing criticism over his style of controlling the running of the cell. Mitochondria was the first to put forth her candidacy stating "If it wasn't for me, there would be no power to run this place!". The Endoplasmic Reticulum and Golgi Apparatus, normally close friends, announced that they would be running against each other as they were unable to come to a mutual agreement on who was more vital to the cell. The Ribosomes had a quick response to their argument, "It should be obvious that we should be elected! Without the proteins we create, the entire organism would cease to function!" Late in the game, the Plasma Membrane stepped in saying "I've been quiet for too long, I think most organelles would agree that I am the one holding this whole cell together". "What about me?" said the head of the Lysosomes. "This place would be an unlivable mess without us here to clean up!" Finally the normally easy going Cytoskeleton decided that this chaos needed to be solved to put things back into order before the whole structure of the cell collapsed. "I will help to clear up this confusion by creating a network of communication and by destroying all unnecessary pathways of action"

Your team has been hired by one of the organelles to run their campaign and help them win the election. Your job is to convince everyone that without your candidate, the cell, the organism and consequently the world as we know it will collapse!

### The Candidates

- Nucleus (current mayor, running for re-election)
- Plasma Membrane
- Mitochondrion
- Endoplasmic Reticulum
- Golgi Apparatus
- Ribosomes
- Cytoskeleton
- Lysosomes

### Campaign Poster

- 11 x 14 as minimum size (is also the largest size I can print off for you)
- Catchy slogan and tidbits of key pieces of information about the vital importance of your candidate
- Images (original art – not copied from internet or book)

### Pamphlet

- Bi-fold format from 8.5 x 11 paper (like a card)
- Cover should have the catchy slogan and image included on the posters
- Describe how fantastic your candidate is. Information included needs to be worded in such a way to make a connection to the voters. Tell your voters why your candidate is important for the survival of the organism.
  - What is its function?
    - What is its role in the cell itself?
    - What is its role for the organism as a whole?
  - Composition of structure
    - Where is it made?
    - What is it made of?

Your Team	
1	_____
2	_____
3	_____
4	_____

## Positive Campaigning

- Time to let everyone know why your organelle is the best 😊
- Promote your candidate in a diversity of ways:
  - I'll set up a post on Edmodo for your team to reply to with positive posts
  - School monitors and bulletin boards
  - Extra posters
  - T-shirts
  - Buttons
  - Stickers
  - Be creative!

## Smear Campaign

- Let the mudslinging begin against other of the organelle candidates!
- The smears must be factual and done in an education manner
- Create smaller posters to discredit the other organelles
  - Think about the negatives related to the other candidate's structure and function. Perhaps relate each organelle to possible diseases or disorders associated with the malfunction, etc.
    - Example: Chloroplast only works on sunny days and doesn't like animals!

## Speech

- Brief speech promoting your organelle (MAX 5 minutes)
- Choose one person from the group to perform the speech.
- In your speech, you need to convince the voters that based on structure and function, your candidate is the most important.
- After all the speeches you have to try to deflect the smear campaigns that have hit you.
- Students in the audience will be filling out a voter guide during the speeches.
- Your group MUST provide me with a transcript of the speech on day the speech is given.

## Rebuttal & Final Statements

- You will be given a brief opportunity to speak to any smear campaigns and/or negative statements brought up by your competition. One last chance to make a good impression on the voters!

## VOTING

- After the rebuttals & final statements, all the students in class will complete a ballot.
- Each person will vote for one organelle OTHER than their own!
- Number of votes you get will be part of your grade (though it will be a smaller portion).
  - BONUS points will be given to the WINNER of the election

Beyond what I have required, you can be as creative, as is ethically correct, to win this campaign.

**Be creative and have fun!**

