

# Testing of Gene Delivery Vehicles

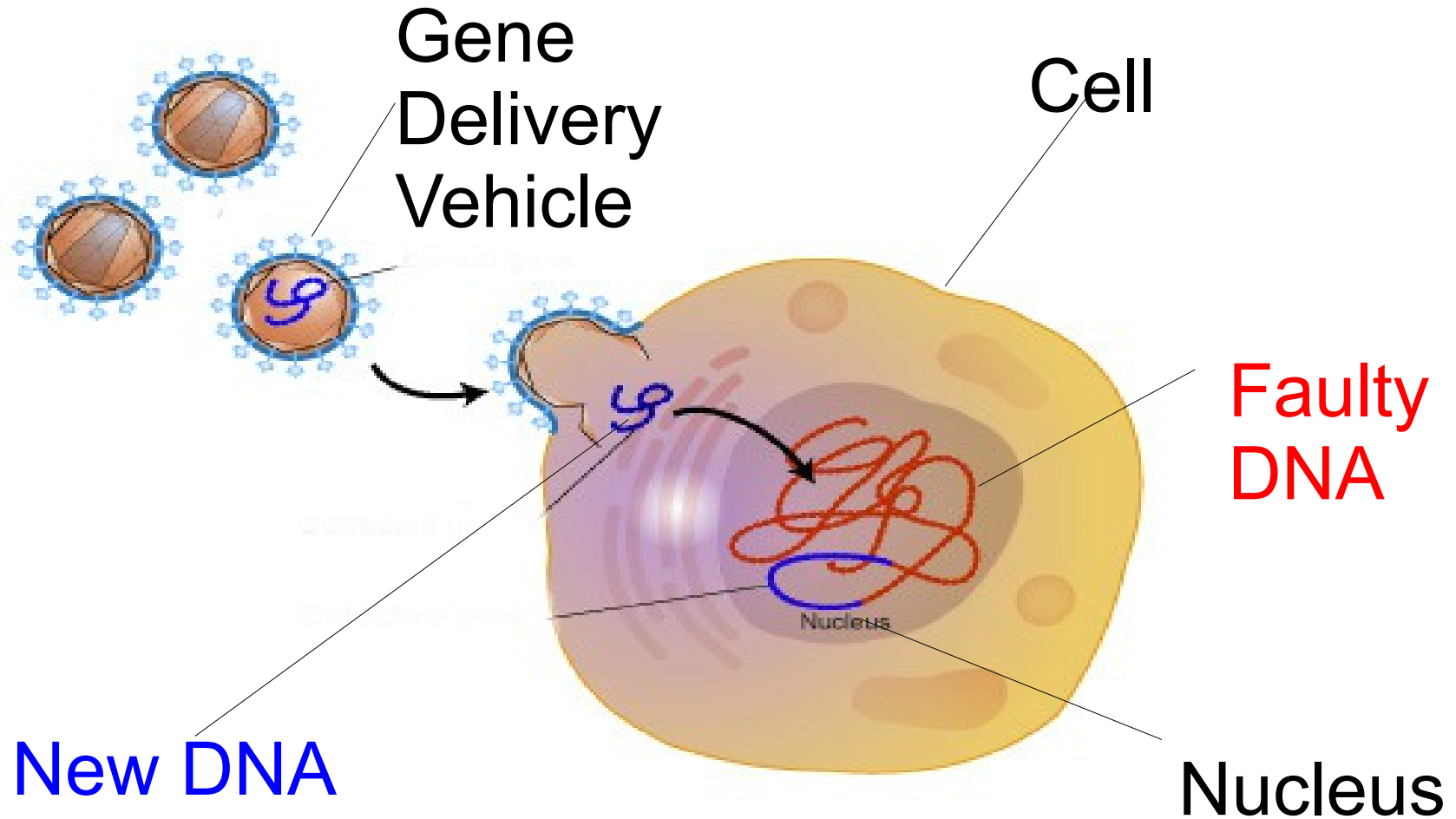
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Palmer, Zita Espinoza  
Mentor: Emily Wonder  
Faculty Advisor: Cyrus Safinya

# Many Genetic Diseases Caused By Genes



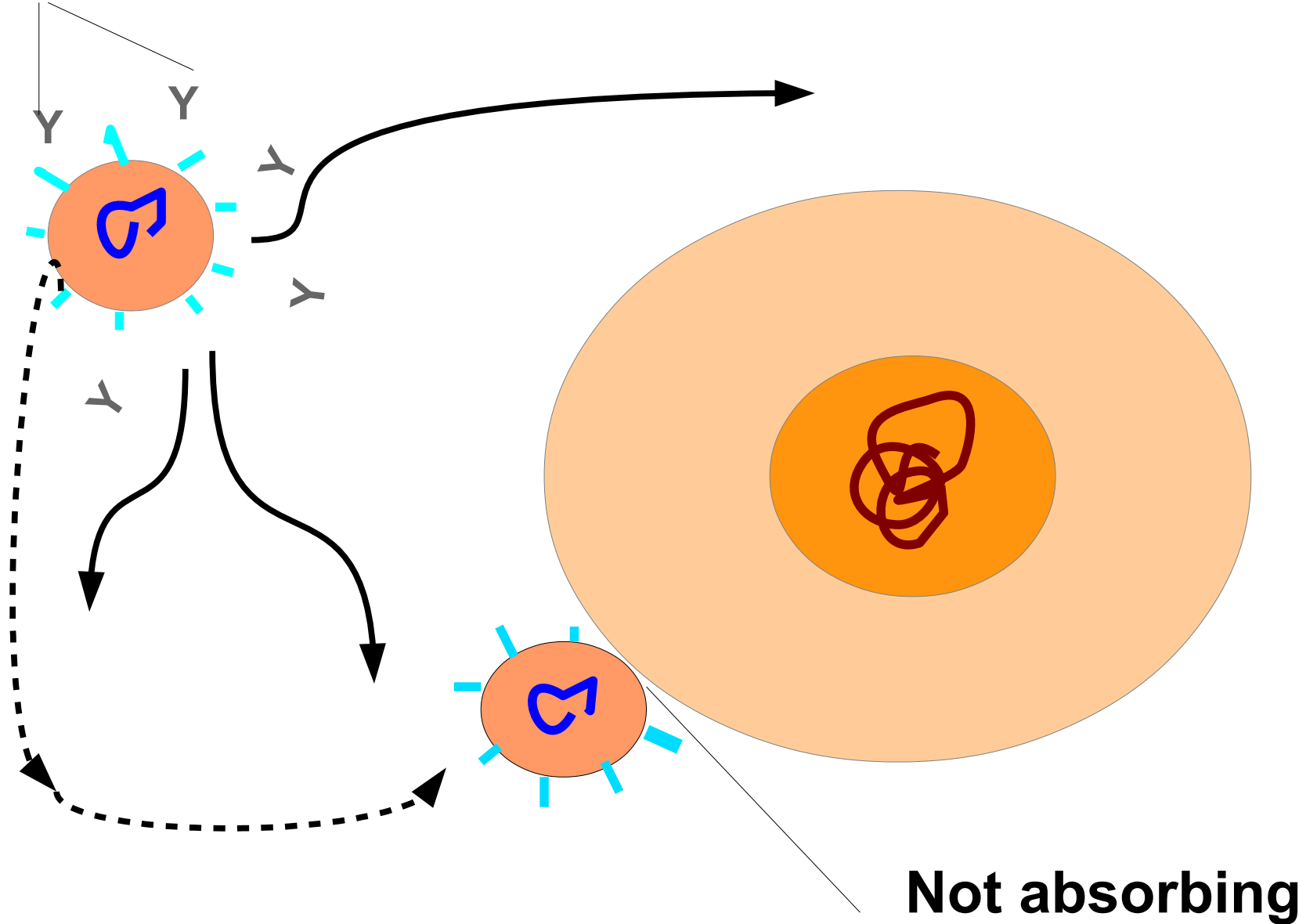
**“I’m having a bad D.N.A. day.”**

# Gene Therapy Targets Faulty DNA



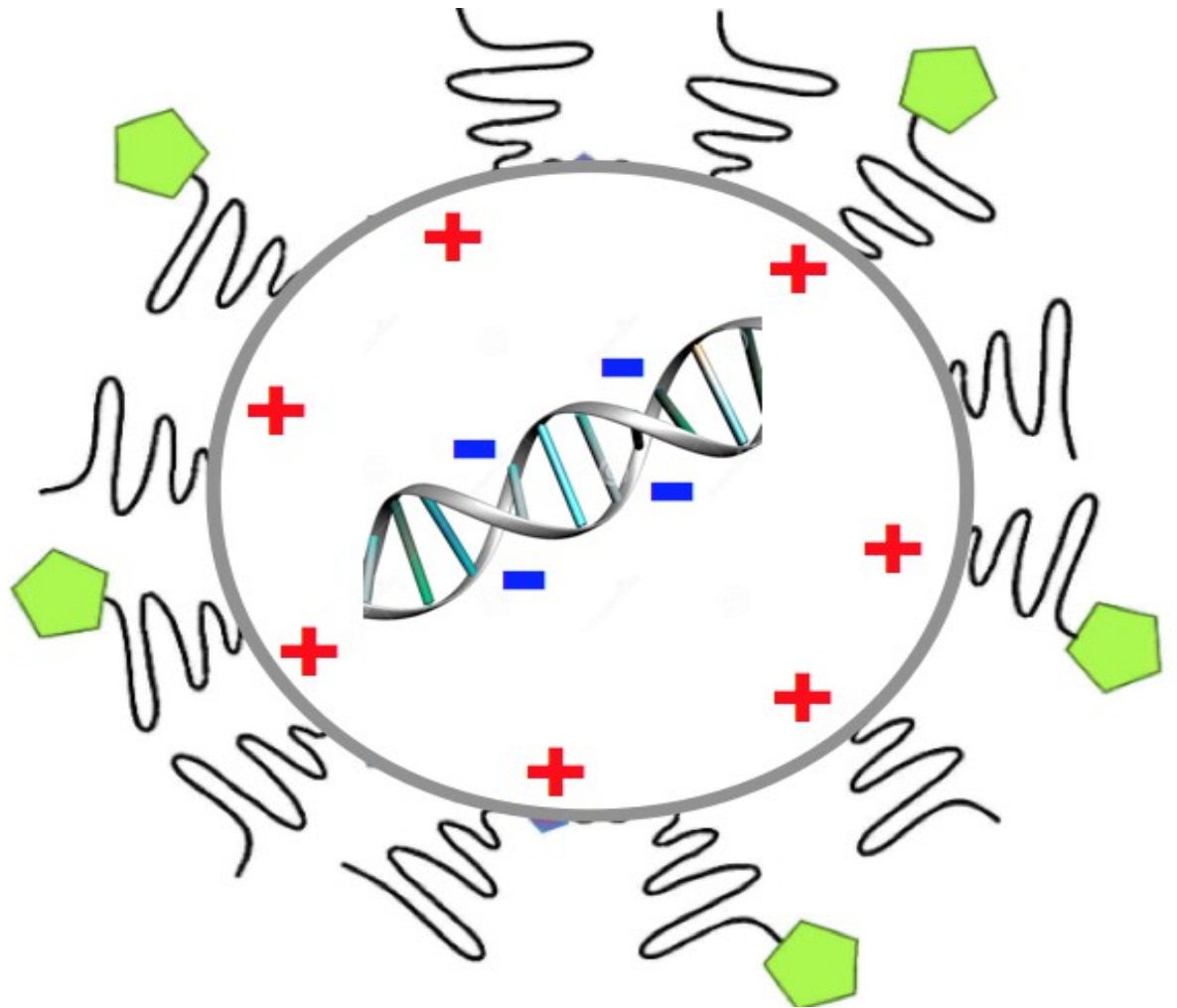
# But The Vehicle Has Obstacles To Overcome

**Antibodies**



# Vehicle Types for Introduction To Cell

- **DOTAP**
- **PEG**
- **RGD**
- **DNA**

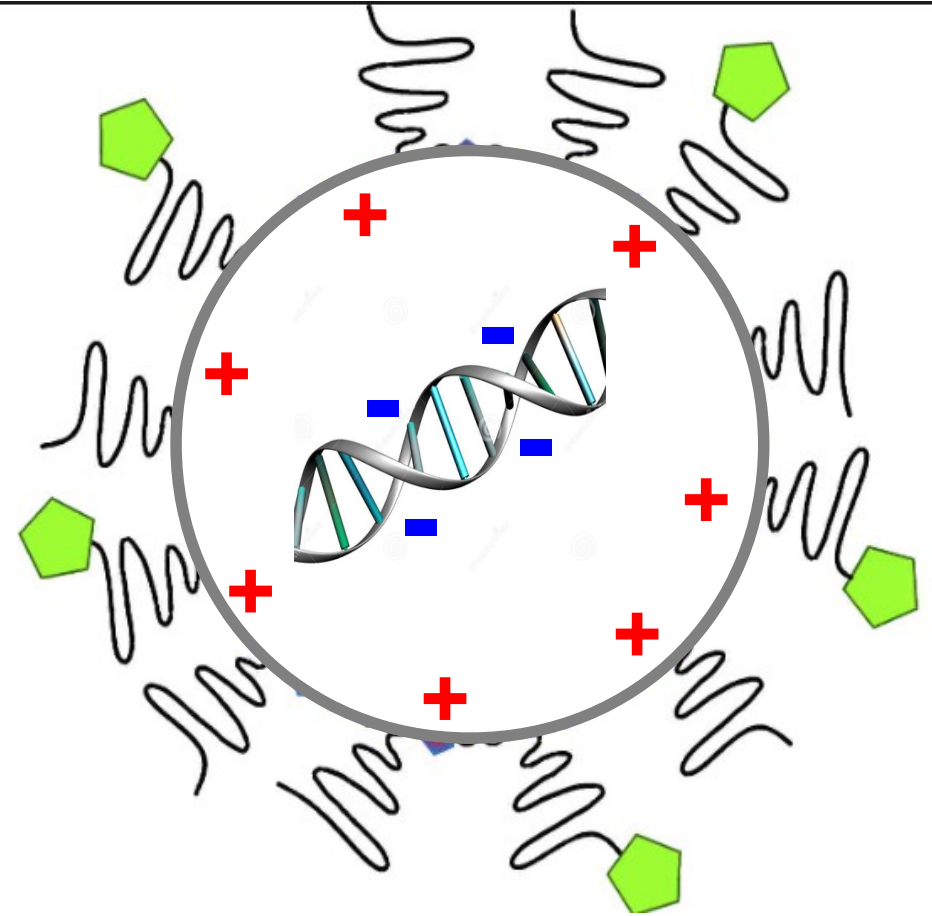


# Does Taxol Negatively Affect Gene Therapy?

Taxol



Gene delivery vehicle



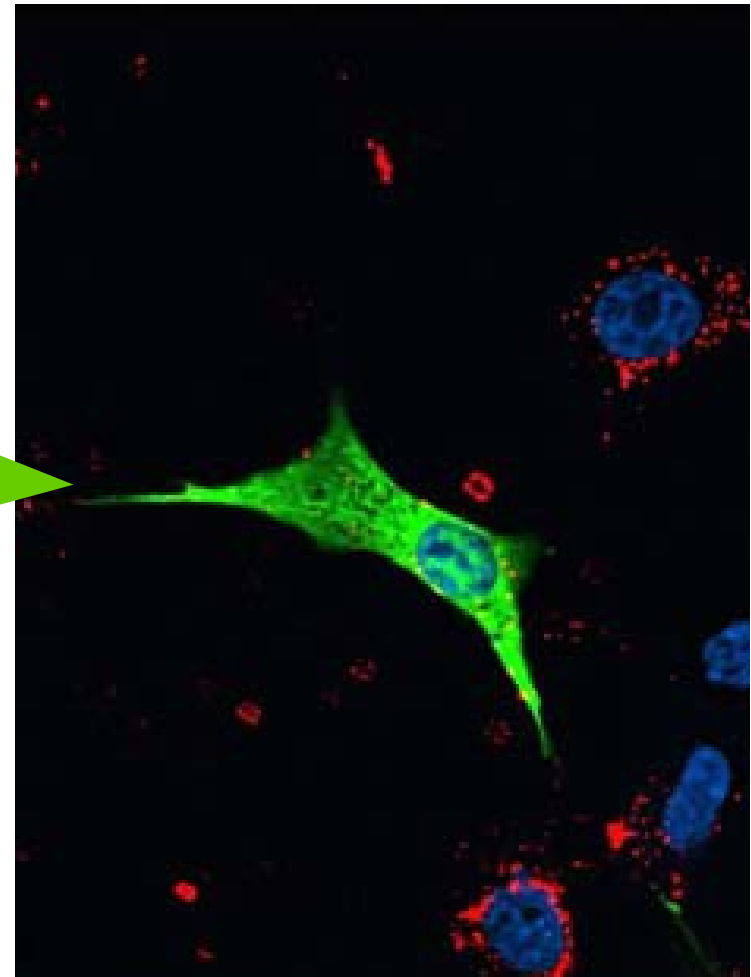
# Using Firefly DNA as a Tool



# Measuring Vehicle and Taxol Combination

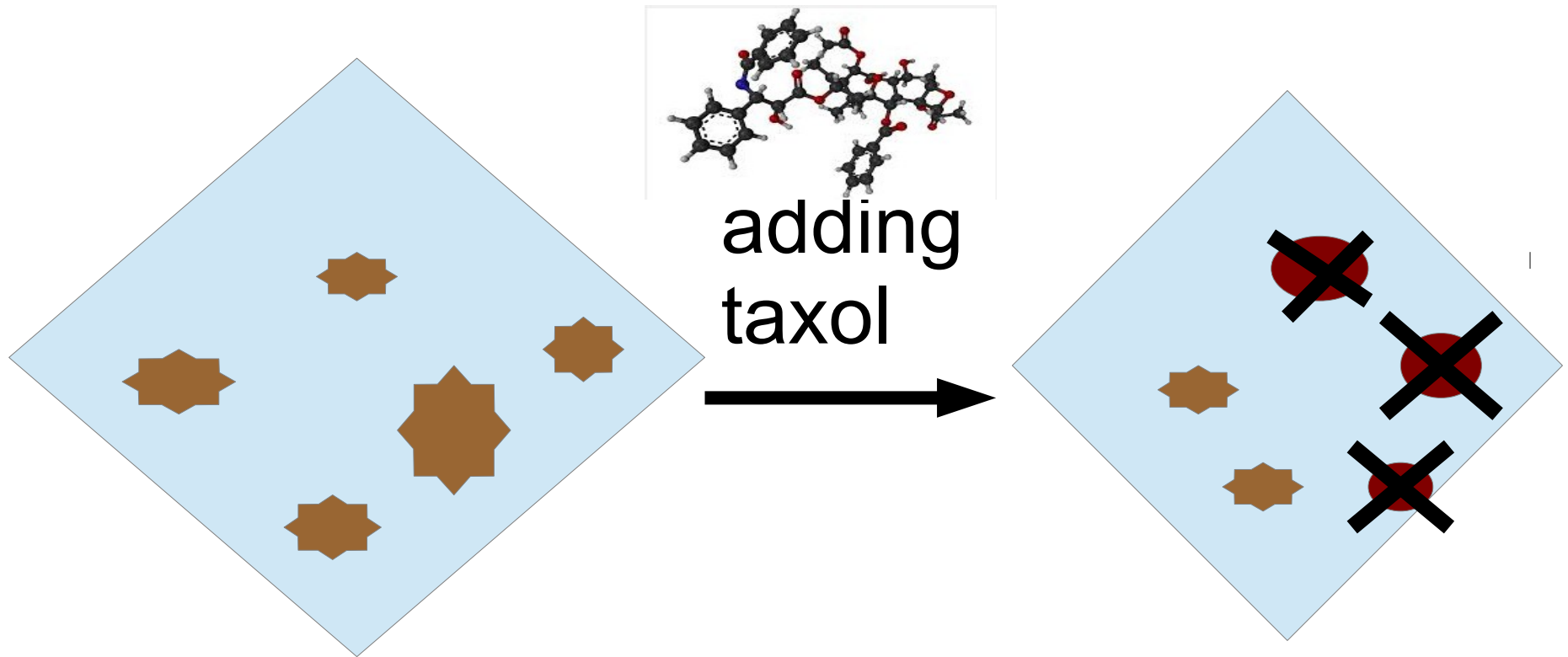


Add taxol and  
wait 24 hours



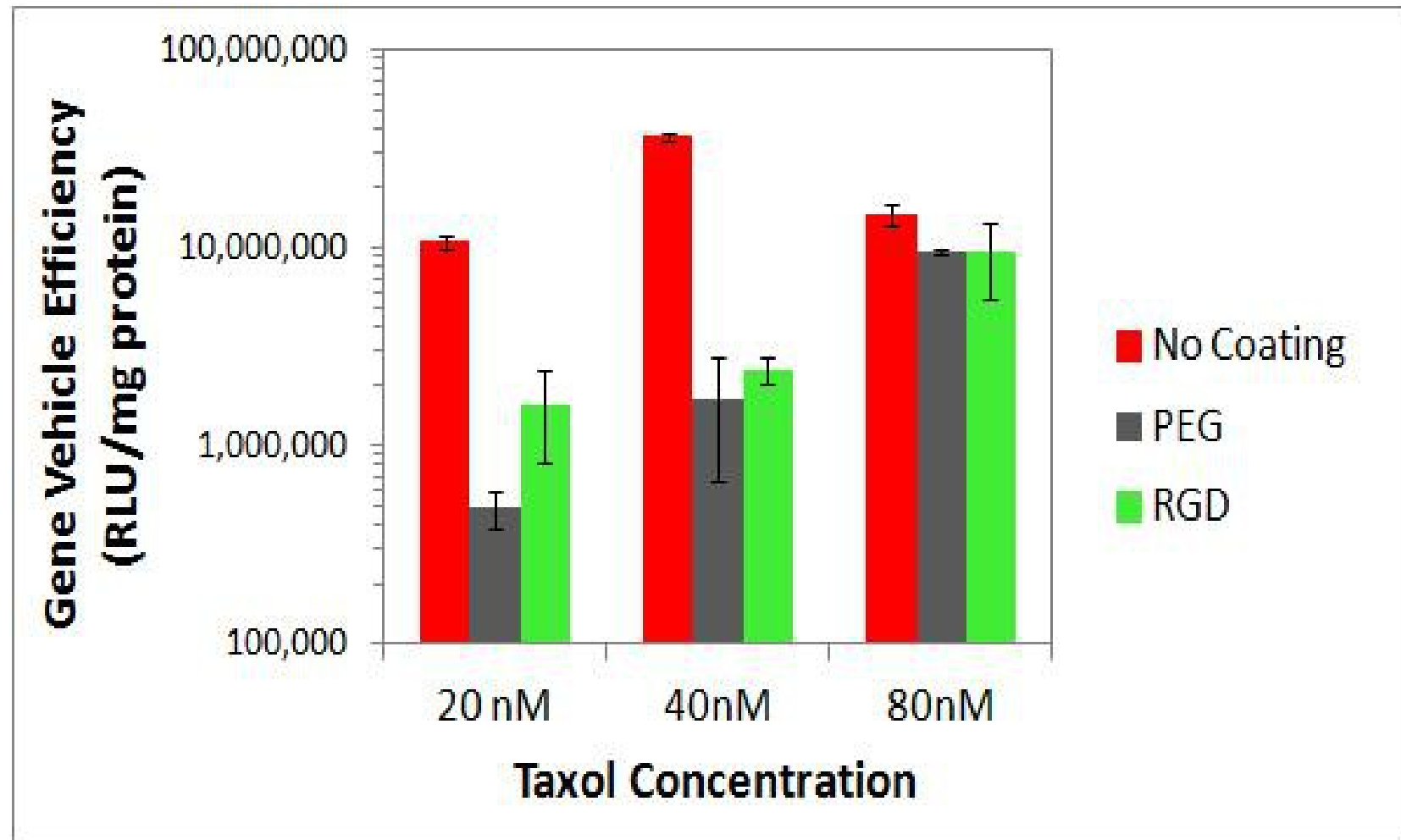


# Counting The Survivors

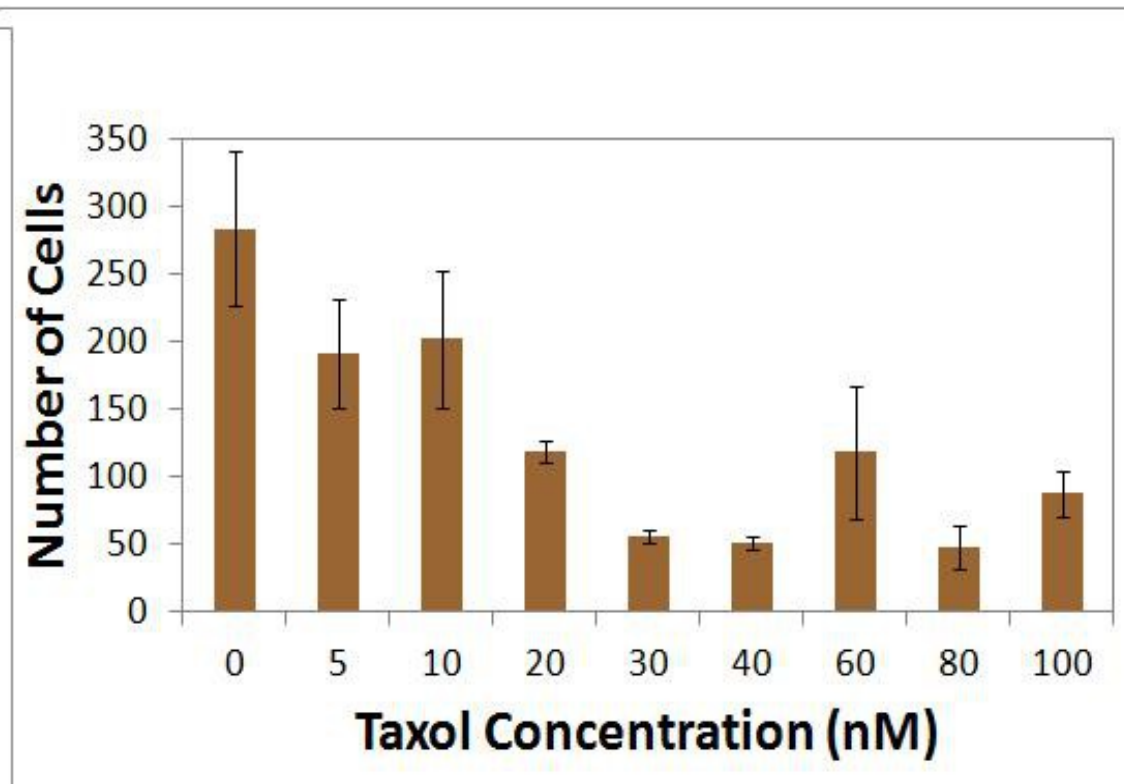
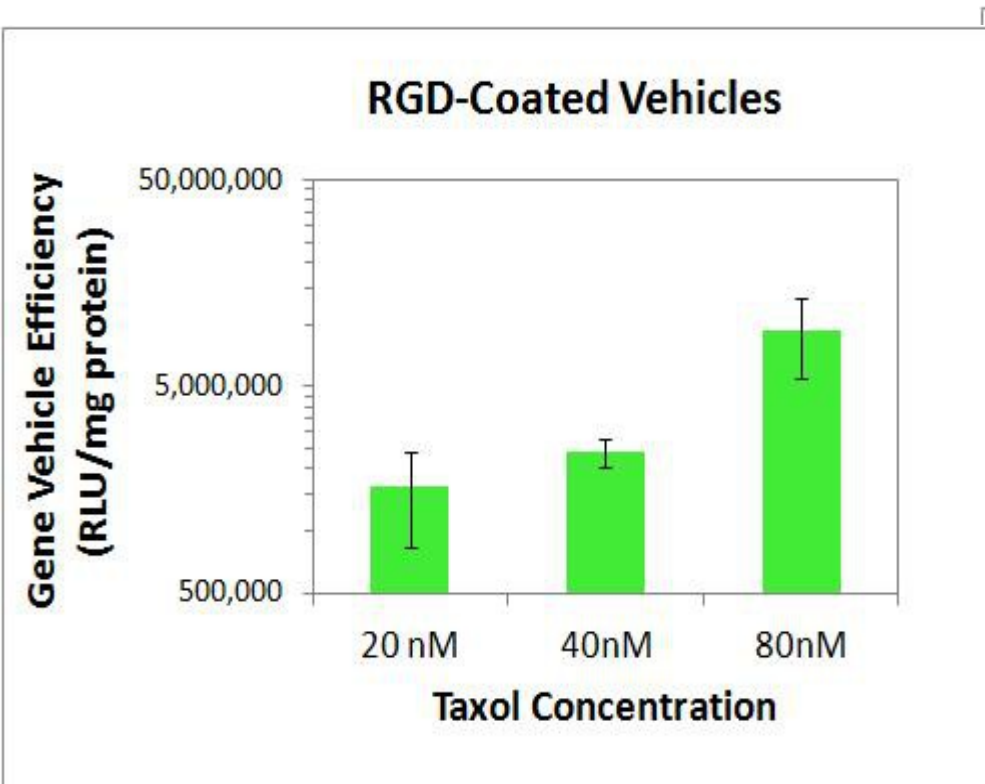


Cells on  
cover slip

# Gene Vehicle Results With Different Concentrations Of Taxol



# Chemo-Vehicle



# Conclusion

