



# BIT 579 FINAL EXAM ASSIGNMENT

---

Madison Frye





---

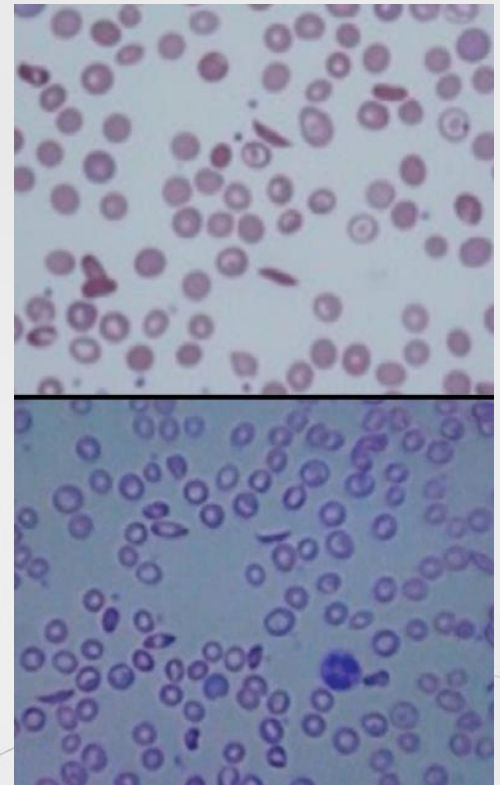
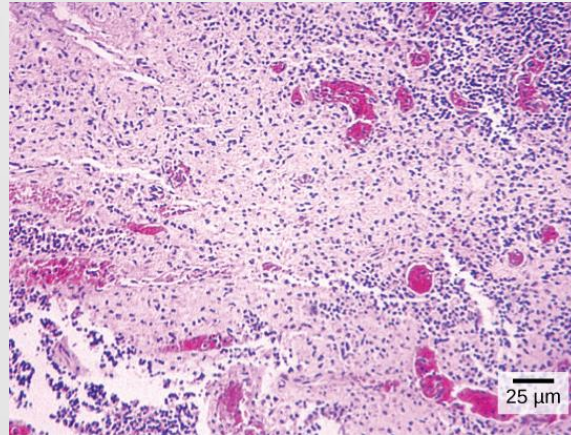
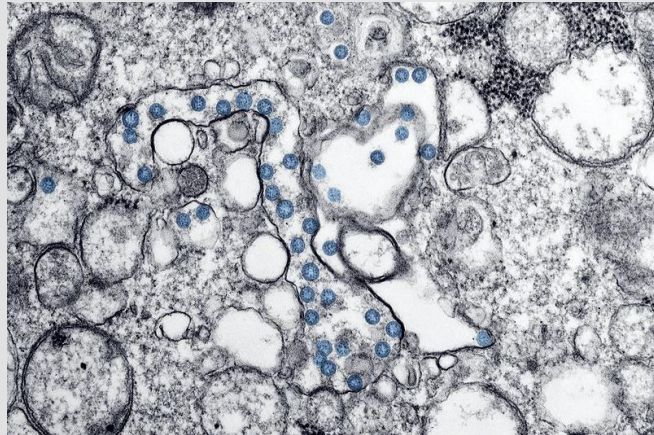
# What is high-content microscopy?

---

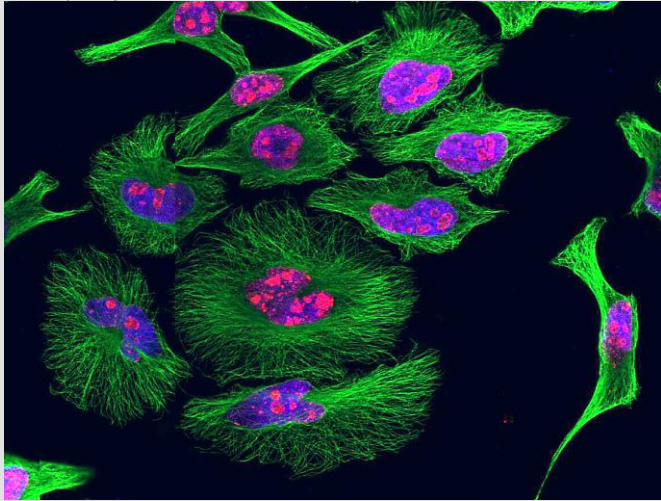




## Traditional Microscopy



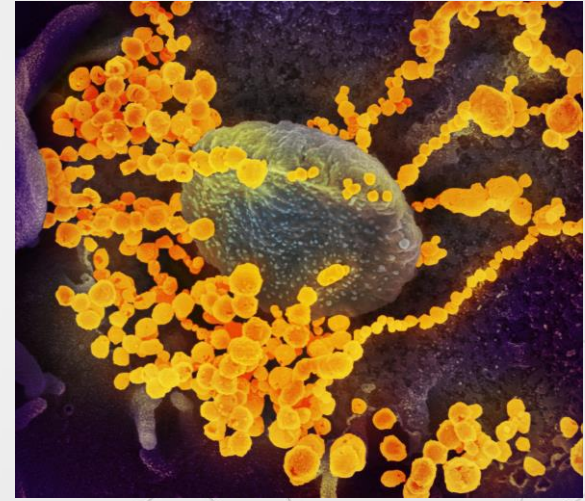
# High-Content Microscopy



HeLa cells up close.



A cell in prophase.



SARS-CoV-2 virus (orange) emerging from a cell.



# Steps to Perform High-Content Microscopy



**Sample  
Preparation**



**Image  
Acquisition**



**Data Collection &  
Storage**



**Image Analysis**



**Data Modeling**





# High-content microscopy: more than just an image

