Lab 1a: Neutrophil velocity

Team info

Lab section: C01 (12-3 PM) | C02 (3-6 PM)

Team name: \_\_\_\_\_\_\_\_\_\_\_

Journalist: \_\_\_\_\_\_\_\_\_\_\_

Data Interpreter: \_\_\_\_\_\_\_\_\_\_\_

Critic: \_\_\_\_\_\_\_\_\_\_\_

Checker: \_\_\_\_\_\_\_\_\_\_\_

[This is a shell of a blank writeup. Strip out the verbiage, including this sentence, and replace it with your own.]

# Journal

This corresponds roughly to Materials and Methods in a scientific paper. It won’t have all the technical detail of an academic paper (for instance, you don’t need to report what kind of microscope you used), but it should have enough information that *the reader can understand exactly what you did and how you did it*. It is particularly important to explain any deviations from the lab instructions, or anything not explicit in the lab instructions.

*For instance, this week* you need to calculate the velocity v and acceleration a from your measured cell position data. Explain how you did this; equations are probably the easiest way to make yourself understood, but be sure to define all the variables in your equation so we understand what it means.

# Data and Interpretation

Your findings, displayed in an easy-to-understand form, with the important features explicitly described and explained.

We are mostly concerned that you display your data to us in a comprehensible and elegant way. *You* can decide exactly how to do so, but we often over hints of suggestions.

*This week, for instance*, you should probably include

1. A table of your data (with time, position, velocity and acceleration columns). Include units! It’s rarely appropriate to include a data table this large (because it’s usually easier on the reader to *plot* numbers rather than throwing them into a big table) but we are asking for it this first week, just to make sure we’re all on the same page.
2. Plots of your data. Since position, velocity and acceleration all have different units (and different magnitudes, typically) we generally don’t try to plot them on the same graph.

# Evaluation

Deeper reflection on what your results mean. Do they make sense? Are they consistent with other things you know?

*This week, for instance*, you might comment on

1. Do the velocity and acceleration look smooth or jerky. Any idea why?