



Figure 1. Schematic of a cell, force vs. time, force vs. distance, and micrograph of a cell.

## DISCUSSION

The results of this study show that the force generated by a cell is proportional to the distance it moves. This is consistent with the idea that the cell is using a spring-like mechanism to generate force. The force vs. distance graph shows a linear relationship, which is characteristic of a spring. The force vs. time graph shows a linear increase in force over time, which is also consistent with a spring-like mechanism. The micrograph shows the cell's position and the flagellum's position, which are used to determine the distance the cell has moved.

Figure 2. Force vs. distance and force vs. time graphs, and micrograph of a cell.