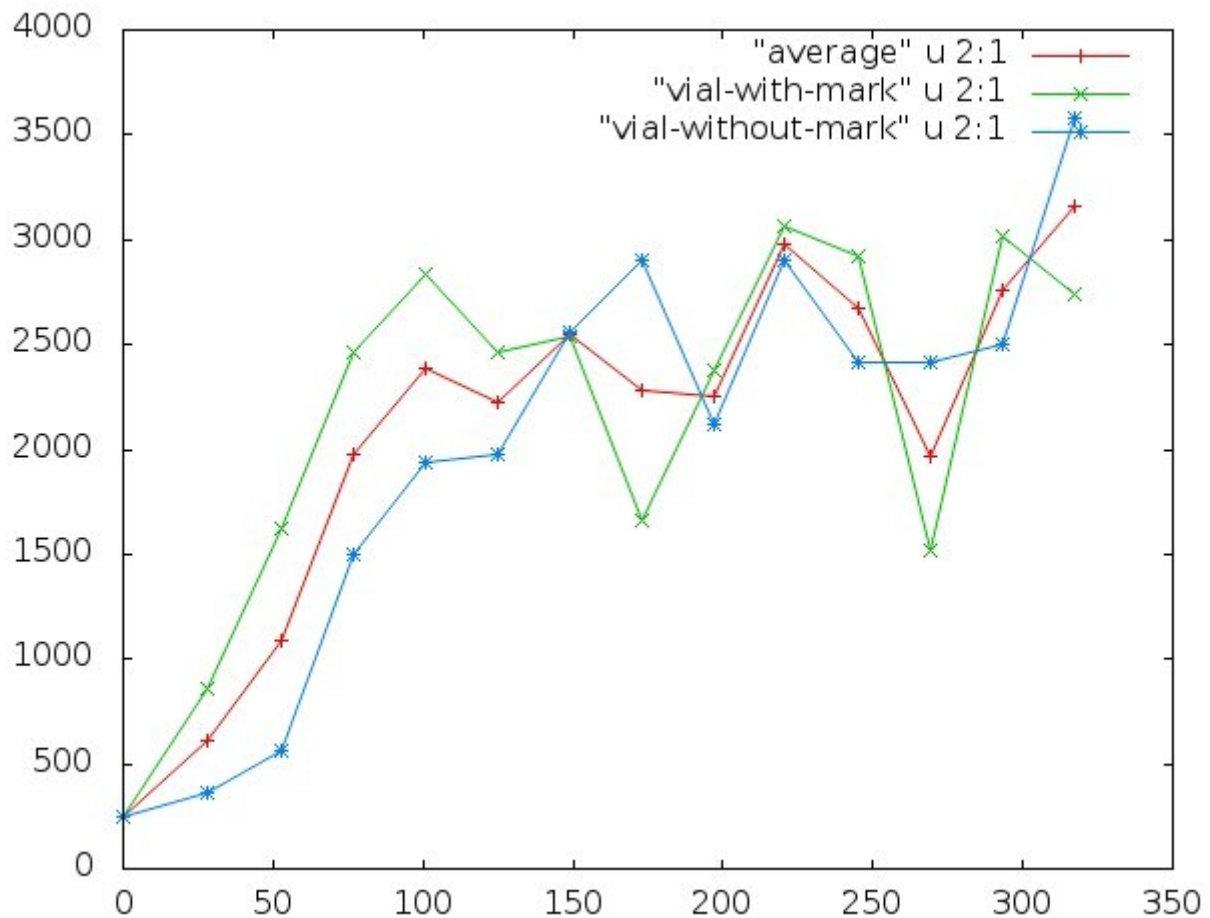


Experiment No. 1

Measuring population growth in *Paramecium caudatum*



X-Axis: No. Of Hours from the start ; Y-Axis: Population density (per mL)

Green: 1st Culture ; Blue: 2nd Culture

Red: Average of the two cultures

Analysis and Result:

The population growth of the *Paramecium caudatum* cultures followed the exponential growth model.

By around 150 hours after the start of the experiment, the cultures appeared to reach the carrying capacity (approx. 2500 per mL) .

Oscillations around the carrying capacity were seen (post 150 hrs). These oscillations are probably due to the time taken (response time) by the cultures to respond to the increase in population size above the carrying capacity.

We maintained the cultures at 25 degrees Celsius and took readings for 20 days.