

# Chapter 1

## Test Chapter

Computational models are mathematical models of systems such as are found in biology, physics, weather systems etc. Such models can be used to predict the behaviour of these systems in an effort to develop interventions which help to control our environment. By predicting weather systems we can safeguard ourselves against extreme weather conditions or plan our crops to avoid failures. In physics, models serve the purpose of discovering the origins of the universe and predicting what the future might hold for us. In biology, computational models serve to provide a better understanding of the way our bodies work as part of our effort to fight disease and prolong life<sup>1</sup>.

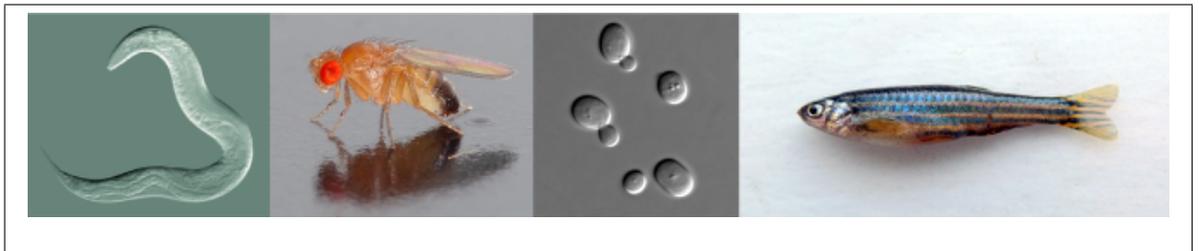


Figure 1.1: From left to right: *Caenorhabditis elegans*<sup>2</sup>, *Drosophila melanogaster*<sup>3</sup>, *Saccharomyces cerevisiae*, *Danio rerio*.

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<sup>1</sup>stuff

<sup>0</sup>A footnote

<sup>1</sup>Another footnote

<sup>2</sup>A footnote

<sup>3</sup>Another footnote