

## Description of Codes for Chapter 1: Introduction to Simulation of Biological Systems

There are two main scripts 'Aquarium\_model\_1.m' and 'Aquarium\_model\_2.m'. The first script generates the analyses and figures associated with the model-free analyses of Sections 1.2.1 and 1.2.2. The second script generates the model-based analyses of Section 1.2.3.

'Aquarium\_model\_1.m' does not call any additional user-generated functions.

'Aquarium\_model\_2.m' calls the function 'dXdT2.m', which is used by the ODE integrator to estimate the solution to the model of Equation (1.16).