A simple LaTeX document

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Abstract

Here we type a compelling abstract of our paper.

1 Introduction

Every scientific publication needs an introduction.

2 Materials & Methods

The Hardy-Weinberg equilibrium model constitutes the null model of population genetics. It characterizes the distributions of genotype frequencies in populations that are not evolving.

3 Formatting text and Writing an equation

Here is a bolded sentence
Here is an italicized sentence
Here is a sentence that is bolded and italicized
HERE IS A SENTENCE IN SMALL CAPS

Here's a pair of equations from coexistence theory:
$\frac{dN_1}{dt} = r_1 N_1 (1 - \alpha_{11} N_1 - \alpha_{12} N_2)$ $\frac{dN_2}{dt} = r_2 N_2 (1 - \Gamma_{22} N_2 - \Gamma_{21} N_1)$