

# A simple L<sup>A</sup>T<sub>E</sub>X 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:

$$\frac{dN_1}{dt} = r_1 N_1 (1 - \alpha_{11} N_1 - \alpha_{12} N_2) \quad \frac{dN_2}{dt} = r_2 N_2 (1 - \alpha_{22} N_2 - \alpha_{21} N_1)$$