

RESEARCH

A sample article title

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Abstract
Text for this section.
Keywords: sample; article; author

Introduction

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Section title

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Sub-heading for section

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Sub-sub heading for section

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Sub-sub-sub heading for section Text for this sub-sub-sub-heading ... In this section we examine the growth rate of the mean of Z_0 , Z_1 and Z_2 . In addition, we examine a common modelling assumption and note the importance of considering the tails of the extinction time T_x in studies of escape dynamics. We will first consider the expected resistant population at vT_x for some $v > 0$, (and temporarily assume $\alpha = 0$)

$$E[Z_1(vT_x)] = E\left[\mu T_x \int_0^{v\wedge 1} Z_0(uT_x) \exp(\lambda_1 T_x(v-u)) du\right].$$

If we assume that sensitive cells follow a deterministic decay $Z_0(t) = xe^{\lambda_0 t}$ and approximate their extinction time as $T_x \approx -\frac{1}{\lambda_0} \log x$, then we can heuristically

Table 1 Sample table title. This is where the description of the table should go.

	B1	B2	B3
A1	0.1	0.2	0.3
A2
A3



estimate the expected value as

$$\begin{aligned}
 E[Z_1(vT_x)] &= \frac{\mu}{r} \log x \int_0^{v \wedge 1} x^{1-u} x^{(\lambda_1/r)(v-u)} du \\
 &= \frac{\mu}{r} x^{1-\lambda_1/\lambda_0 v} \log x \int_0^{v \wedge 1} x^{-u(1+\lambda_1/r)} du \\
 &= \frac{\mu}{\lambda_1 - \lambda_0} x^{1+\lambda_1/rv} \left(1 - \exp \left[-(v \wedge 1) \left(1 + \frac{\lambda_1}{r} \right) \log x \right] \right). \quad (1)
 \end{aligned}$$

[1] Thus we observe that this expected value is finite for all $v > 0$ (also see [2, 3, 4, 5, 6, 7, 8, 9]).

Reference a section To reference an unnumbered section, author should use `\nameref`. An example would be [Introduction](#).

Using glossaries Author should modify the `exampleGls.tex` to add/remove abbreviations, nomenclatures and use `\gls` to reference them. Note that if you use this, please run the external `makeglossaries` command for the glossary to show. An example of using glossaries: [New York \(NY\)](#) and [United Nations \(UN\)](#) are abbreviations whereas [a](#) and [A](#) are part of the nomenclature.

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Add acknowledgements here or remove this section.

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Availability of data and materials

Point to sources of data and materials in this article. If there are none, state so.

Author's contributions

List details about contributions of each author here.

Competing interests

The authors declare that they have no competing interests.

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