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 modeling 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 $\alpha = 0$)

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

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 estimate the expected value as

$$E\big[Z_1(vT_x)\big] \quad = \quad \frac{\mu}{r}\log x \int_0^{v\wedge 1} x^{1-u} x^{(\lambda_1/r)(v-u)}\,du$$

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	..	.	.

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Figure 1 A short description of the figure content should go here.

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

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

Acknowledgements
Add acknowledgements here or remove this section.

Funding
Add funding information here.

Availability of data and materials
Point to sources of data and materials in this article. If there are none, state so. Do not remove this section.

Author's contributions
List details about contributions of each author here.

Competing interests
The authors declare that they have no competing interests.

Author details
[1]Removed for double-blind review. [2]Removed for double-blind review.

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