

# UNIT 4: Life history

# Outline

Introduction

Tradeoffs

The  $r$  vs.  $K$  metaphor

Bet hedging

Sex ratios

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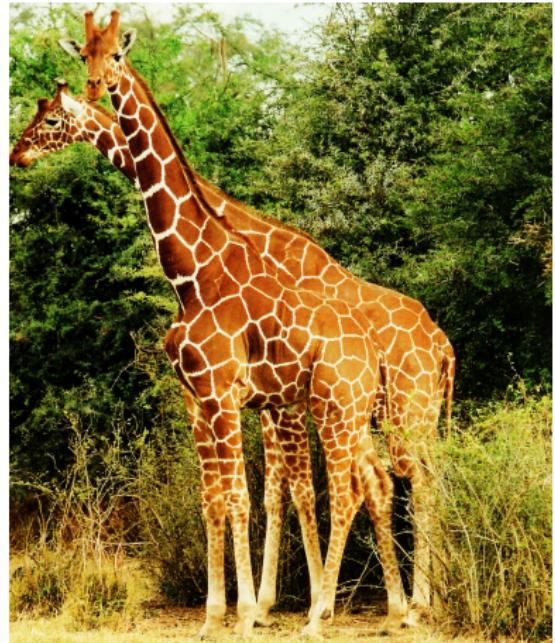
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## *Between populations*



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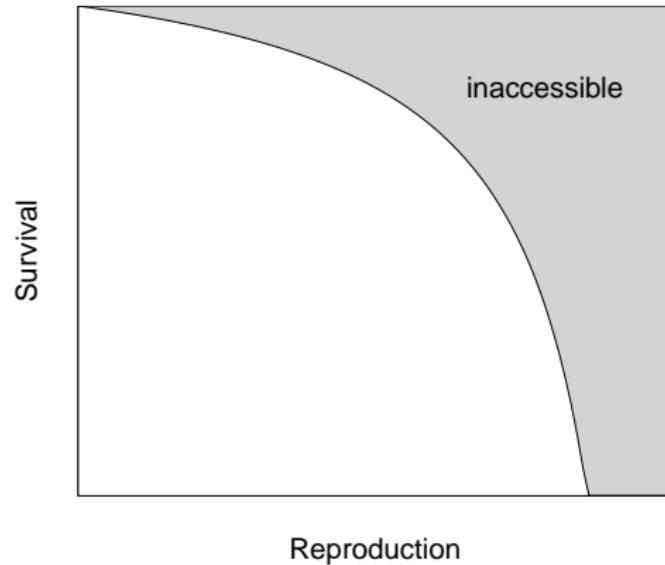
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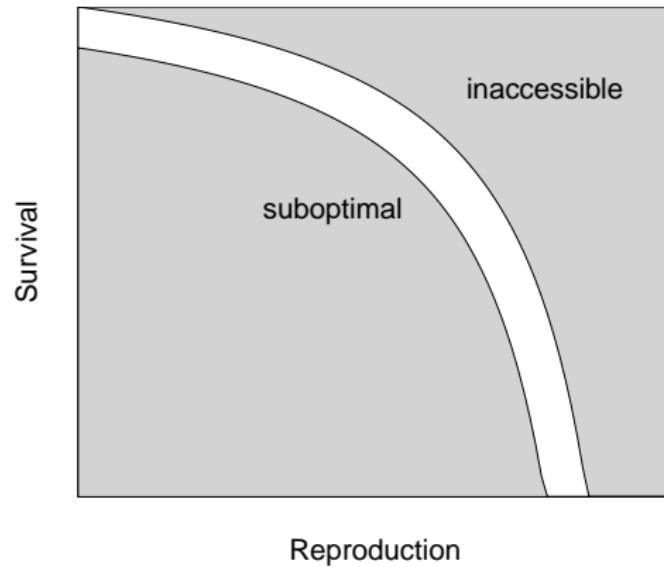
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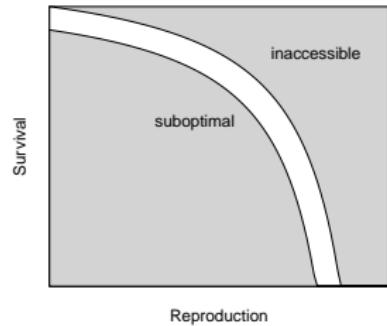


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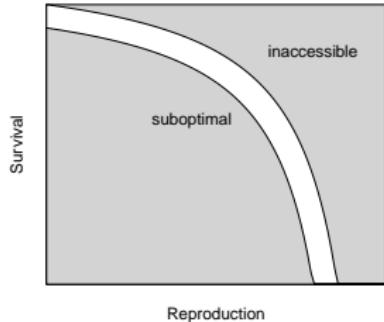
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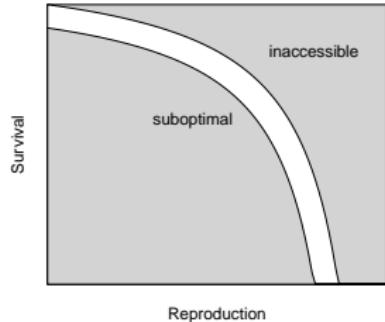
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## *Cole's paradox*



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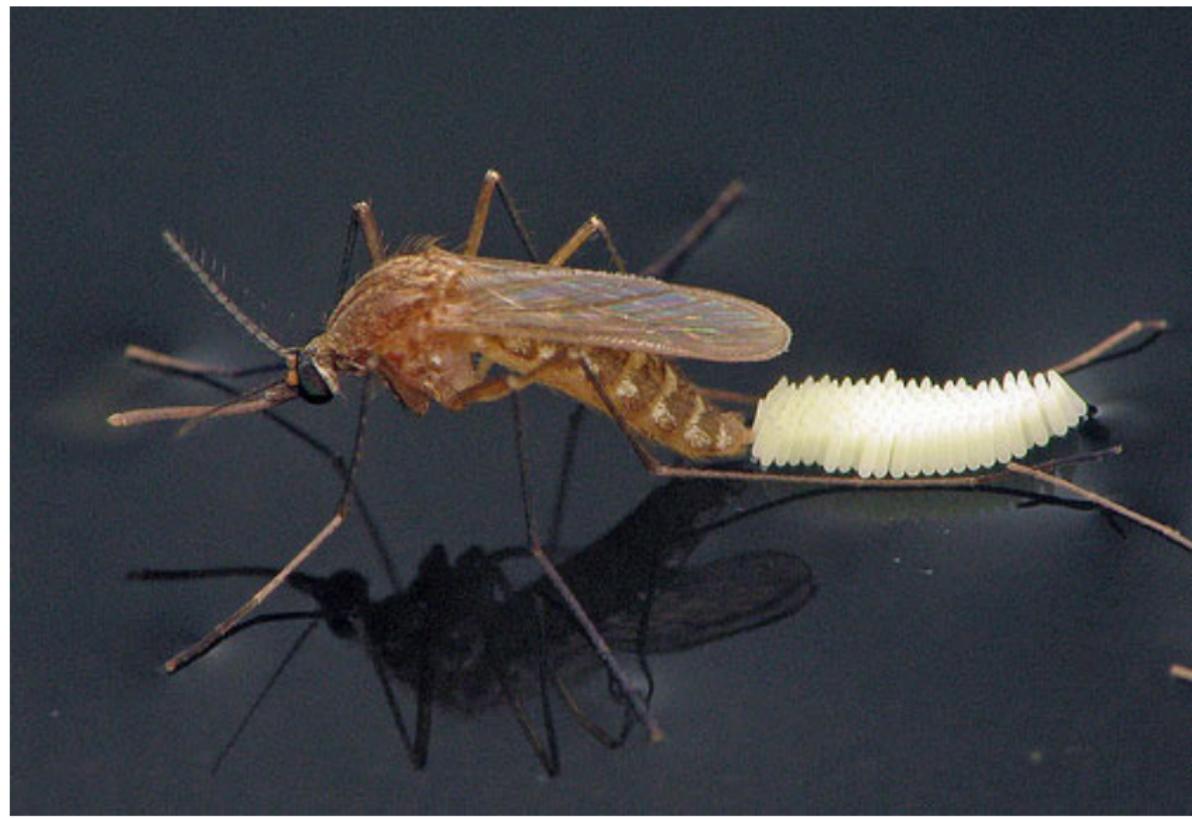
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# Outline

Introduction

Tradeoffs

The  $r$  vs.  $K$  metaphor

Bet hedging

Sex ratios

## The $r$ vs. $K$ metaphor

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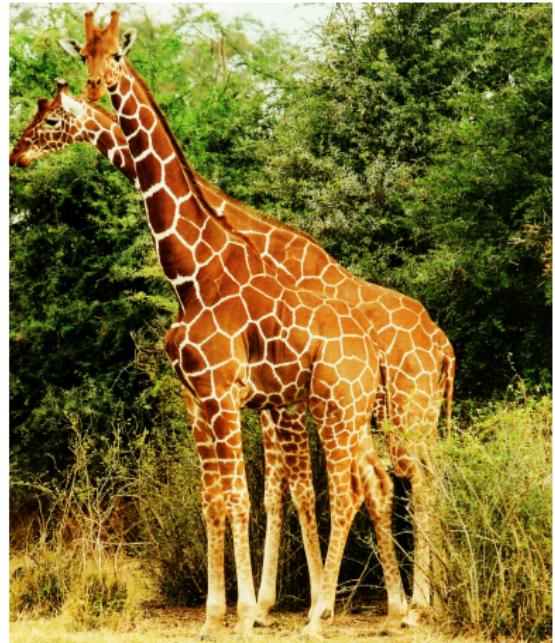
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# Strategies



## Example: trees



# *Open environment*



## *Stable environment*



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# Outline

Introduction

Tradeoffs

The  $r$  vs.  $K$  metaphor

Bet hedging

Sex ratios

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  - ▶ \* Growth is the arithmetic mean of 3, 0.3 and 0.03:  $\lambda = 1.11$

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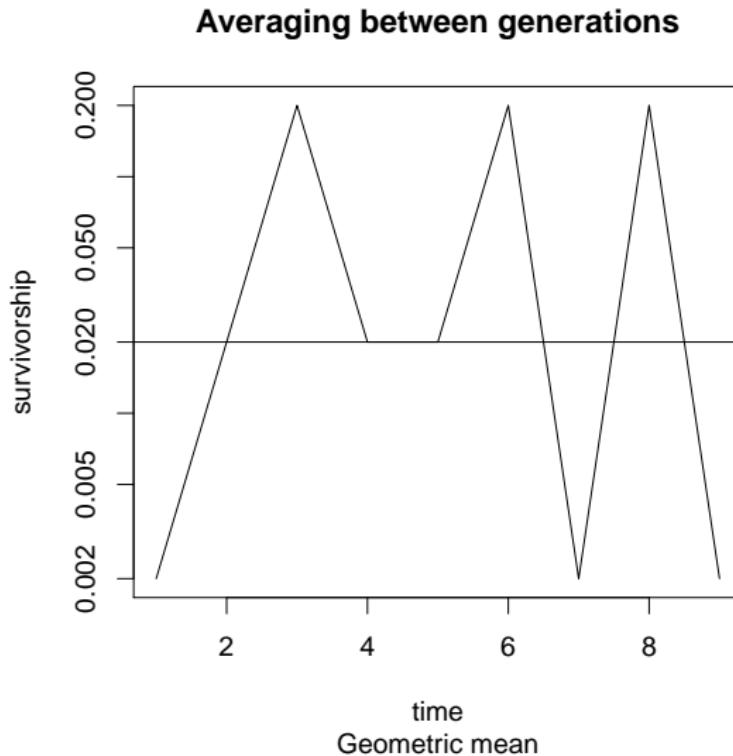
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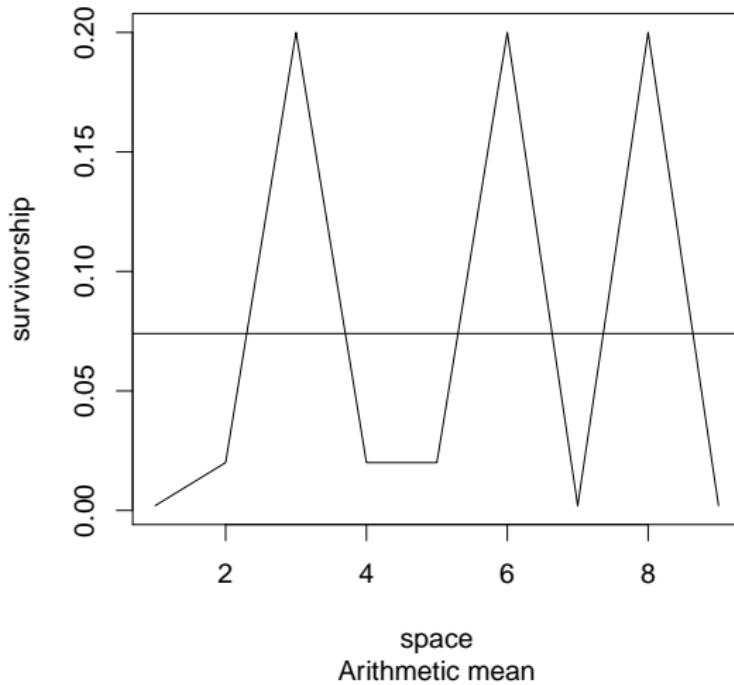
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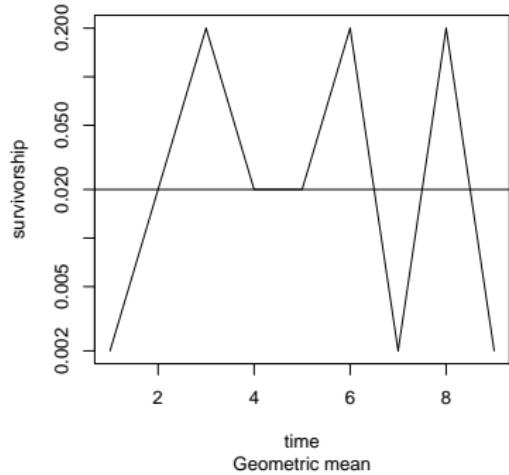
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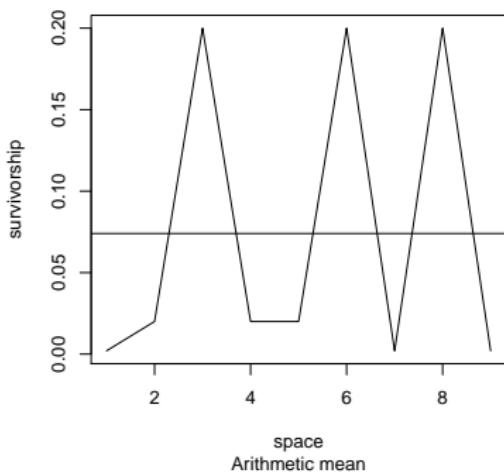


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# Outline

Introduction

Tradeoffs

The  $r$  vs.  $K$  metaphor

Bet hedging

Sex ratios

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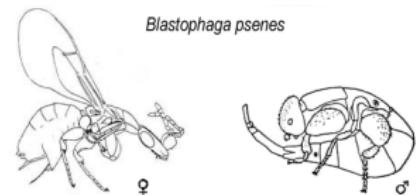
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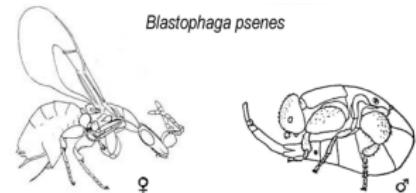
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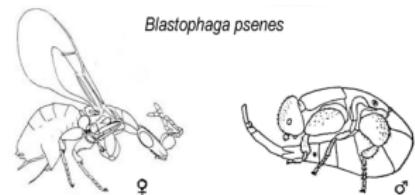
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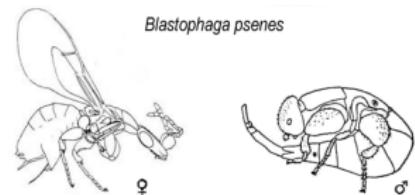
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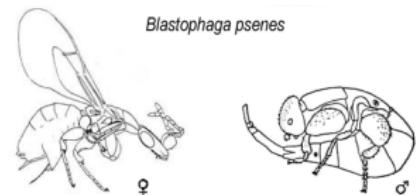
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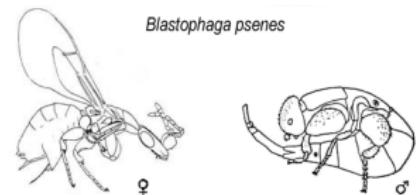
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