

UNIT 5: Life history

Outline

Introduction

Tradeoffs

The r vs. K metaphor

Bet hedging

Sex ratios

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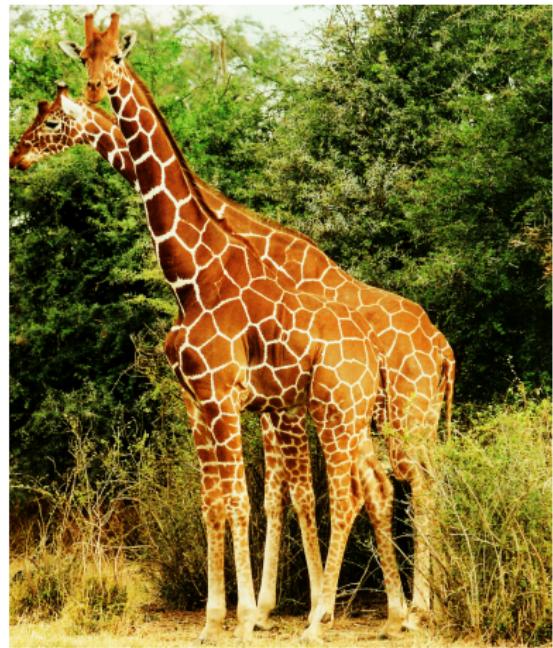
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Between populations



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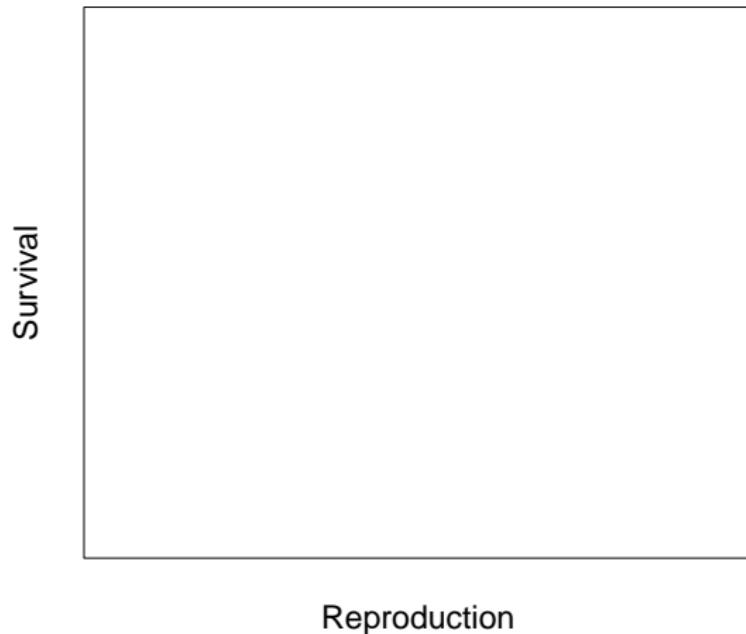
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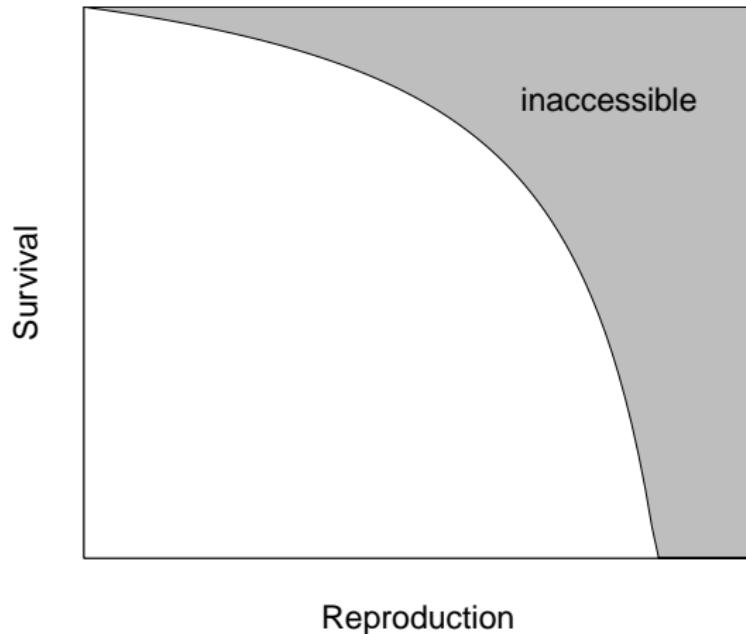
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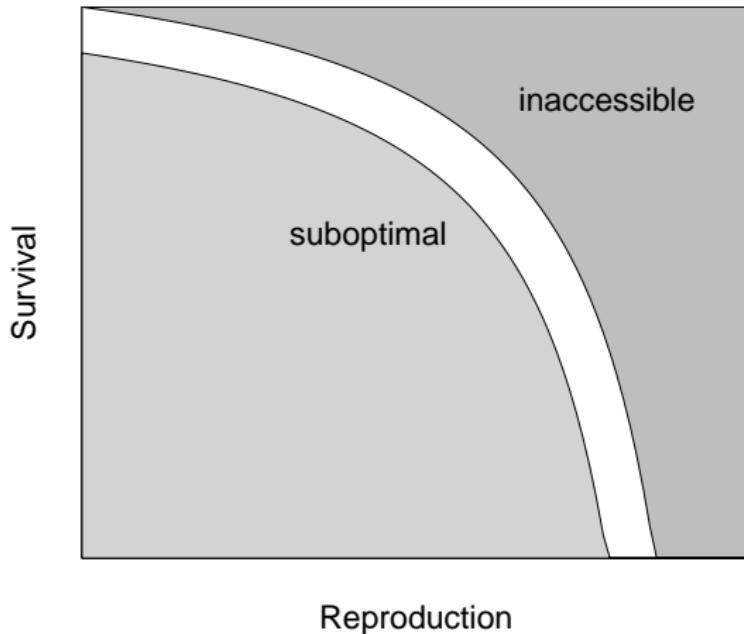
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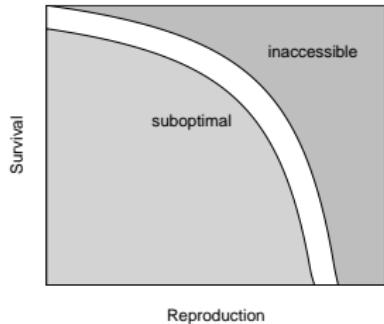


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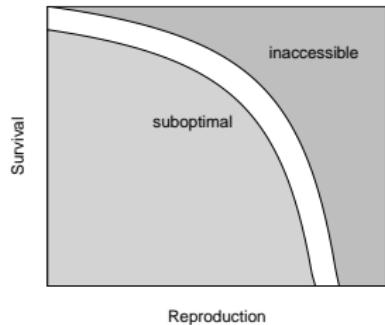
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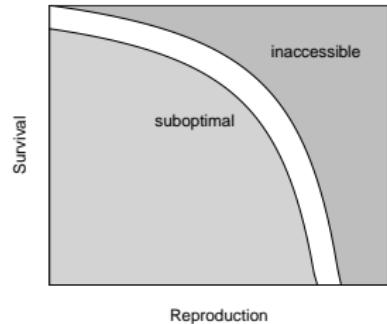
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Outline

Introduction

Tradeoffs

The r vs. K metaphor

Bet hedging

Sex ratios

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- Regulated growth provides a powerful metaphor for life-history tradeoffs involving growth vs. competitive ability

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Maples and marigolds



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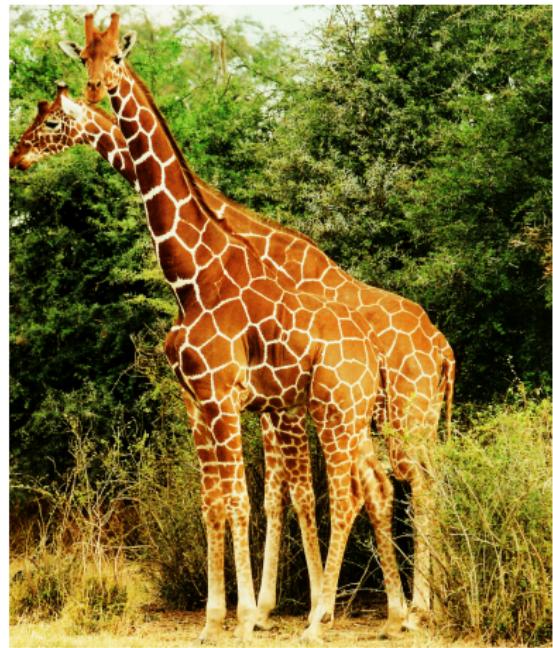
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Open environment



Stable environment



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Outline

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Tradeoffs

The r vs. K metaphor

Bet hedging

Sex ratios

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- ▶ The arithmetic mean is greater than the geometric mean. When variation is high, it can be *much* greater

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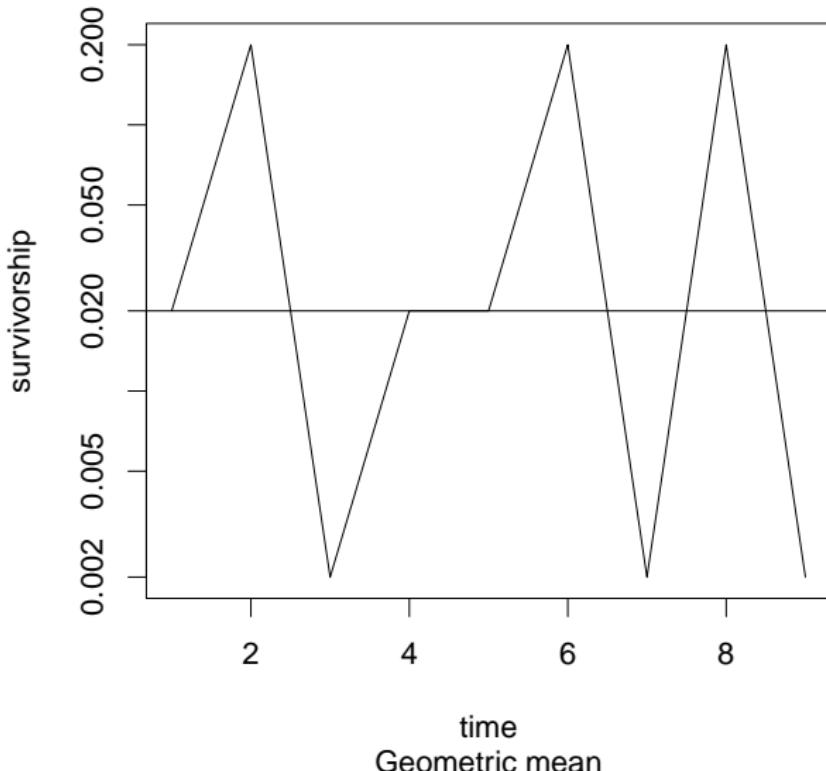
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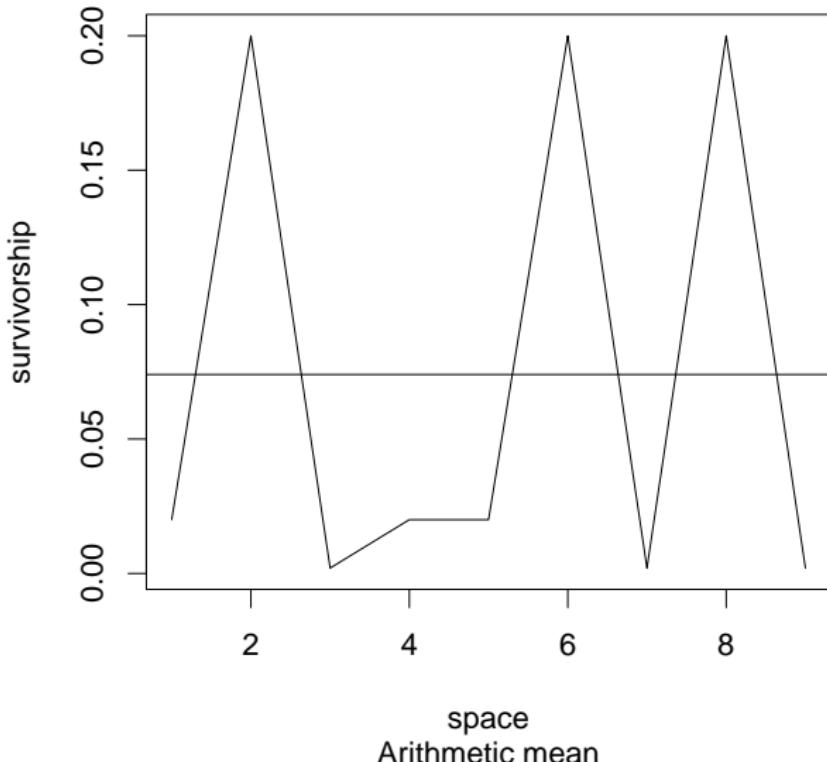
Comparing averages

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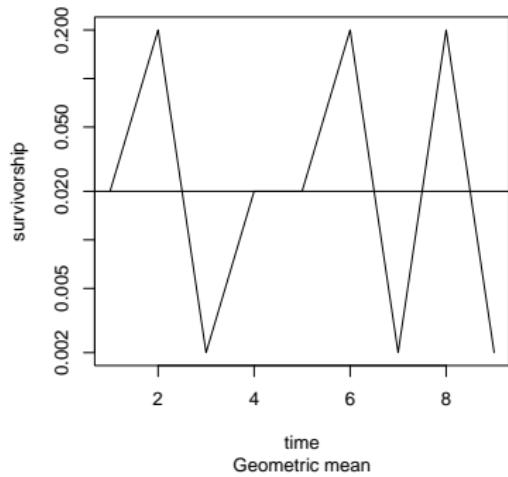
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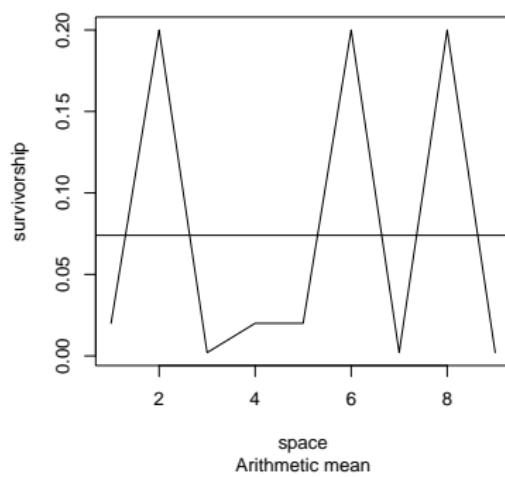


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Dispersal, spreading risk over space

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Outline

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Tradeoffs

The r vs. K metaphor

Bet hedging

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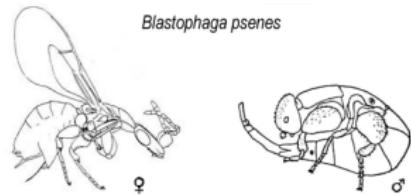
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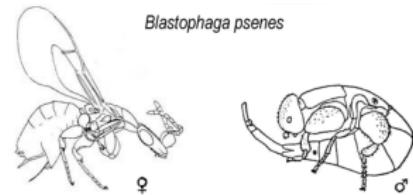
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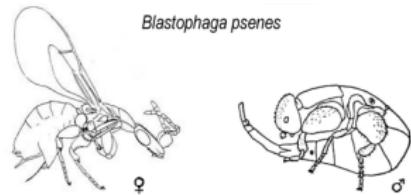
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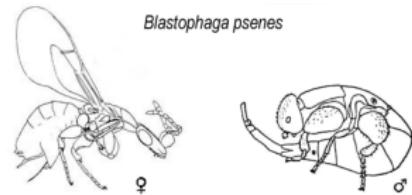
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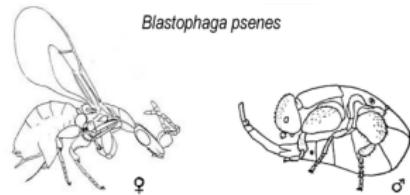
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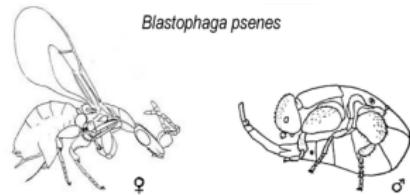


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Pregnant seahorse



Midshipman nest



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