## Microbiotas are Part of Holobiont Fitness

- Microbiotas Protect Against Pathogens
- Microbiotas Provide Nutrients to Their Hosts
- Microbiotas Influence Animal and Plant Development
- Obesity
- Microbiotas Influence Animal Behavior
- Bacteria Play a Role in Mating Preference and Speciation
- Microbiotas Detoxify Toxicants
- Temperature Adaptation
- Microbiotas Warm Their Hosts
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- Key Points
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- Introduction: Darwinism and Lamarckism
- Modes of Variation Within Holobionts
- Microbial Amplification
- Acquisition of Novel Symbionts and the “Hygiene Hypothesis”
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- Transmission of Viruses
- Viruses are Part of the Fitness and Evolution of Holobionts
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