A Metabolite from the Microbiota in early life Safeguards against Obesity by Modulating Lipid Metabolism in the Intestines

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Abstract

The early-life gut microbiota plays a crucial role in promoting health, with infancy characterized by lower bacterial abundance and diversity compared to adulthood. This microbiota undergoes significant changes in response to environmental factors such as an obesogenic high-fat (HF) diet or antibiotic treatment. Disruption to the early-life microbiota is linked to lasting impacts on health, including increased risk for obesity. In this studythe intricate interplay between early-life gut

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Introduction

Methods and Materials

[illegible]

Adiposity and metabolic dysfunction

[illegible]

Mechanisms underlying obesity development

[illegible]

Role of microbiota-derived metabolites

[illegible]

Implications for therapeutic interventions

[illegible]

Limitations and future directions

[illegible]

Results and Discussion

[illegible]

[illegible]

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Conflict of Interest

N

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