

Methods and protocols from 2017 Leitão-Gonçalves et al. for manipulating the diet and the microbiome of *Drosophila*

Version 2

Zita Santos, Patrícia Francisco, Ricardo Leitão-Gonçalves, Margarida Anjos, Célia Baltazar, Ana Paula Elias, Gabriela Tondolo Fioreze, Margarida Anjos, Célia Baltazar, Ana Paula Elias, Pavel M. Itskov, Matthew D. W. Piper, Carlos Ribeiro

Abstract

This is a collection of methods and protocols from the manuscript: [Gonçalves et al. Commensal bacteria and essential amino acids control food choice behavior and reproduction. Plos Biology. 2017 Apr 18.](#)

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Collection

✓ PROTOCOLS

1. [Growing *Drosophila* gut bacteria](#)

CONTACT: [Carlos Ribeiro](#)

2. [Holidic media \(HM\) preparation](#)

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3. [Inoculation of Holidic Media \(HM\) with bacteria to generate gnotobiotic *Drosophila*](#)

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4. [Generating and Rearing Axenic *Drosophila*](#)

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5. Calculating the internal bacterial load of Drosophila

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6. Rearing of Drosophila on Holidic Media (HM) for feeding behavior assays

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7. Rearing of gnotobiotic Drosophila on Holidic Media (HM) for feeding behavior assays

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