

- Diet houses metabolites and microbiota that shape gut microbiome
- Microbiota influence nutrient sensing pathway¹
- Dietary composition is critical for host metabolism

Methods & Hypothesis

- Three DGRP lines were chorion sterilized and exposed to autoclaving and antibiotics food treatments^{2,3}
- Performed untargeted GC/MS, 16S sequencing and proximate nutritional analysis of diet
- We measured life-history and metabolic markers in larvae
- We hypothesize differential response of larvae traits to fermented treated peach and strawberry diets



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Microbiota and metabolites of natural diets influence the nutritional traits of *Drosophila* larvae Oluwatobi Fijabi, Derek Maas, & Laura K. Reed





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Conclusions