

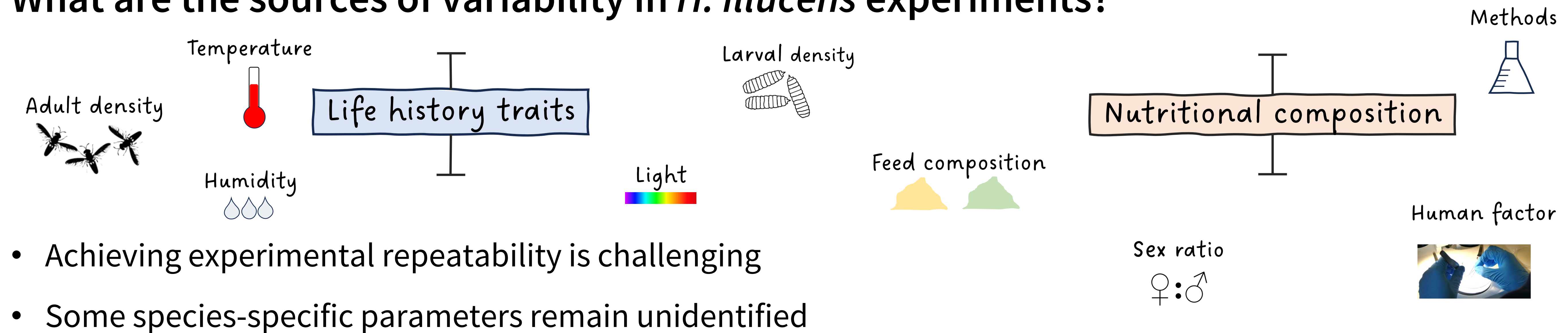
# Addressing variability in *Hermetia illucens* bioassays: have all the key species-specific parameters been identified?

Joachim Carpentier<sup>1</sup>, Zoé Jullien<sup>1</sup>, Hugo Luttlenschlager<sup>1</sup>, Donatella Ferrara<sup>2</sup>, Nicolas Deville<sup>1</sup>, Aymeric Anglicus<sup>1</sup>,  
Frédéric Francis<sup>1</sup> & Rudy Caparros Megido<sup>1</sup>

1: Functional and Evolutionary Entomology, UR Terra, Gembloux Agro-Bio Tech, University of Liege, Gembloux, Belgium

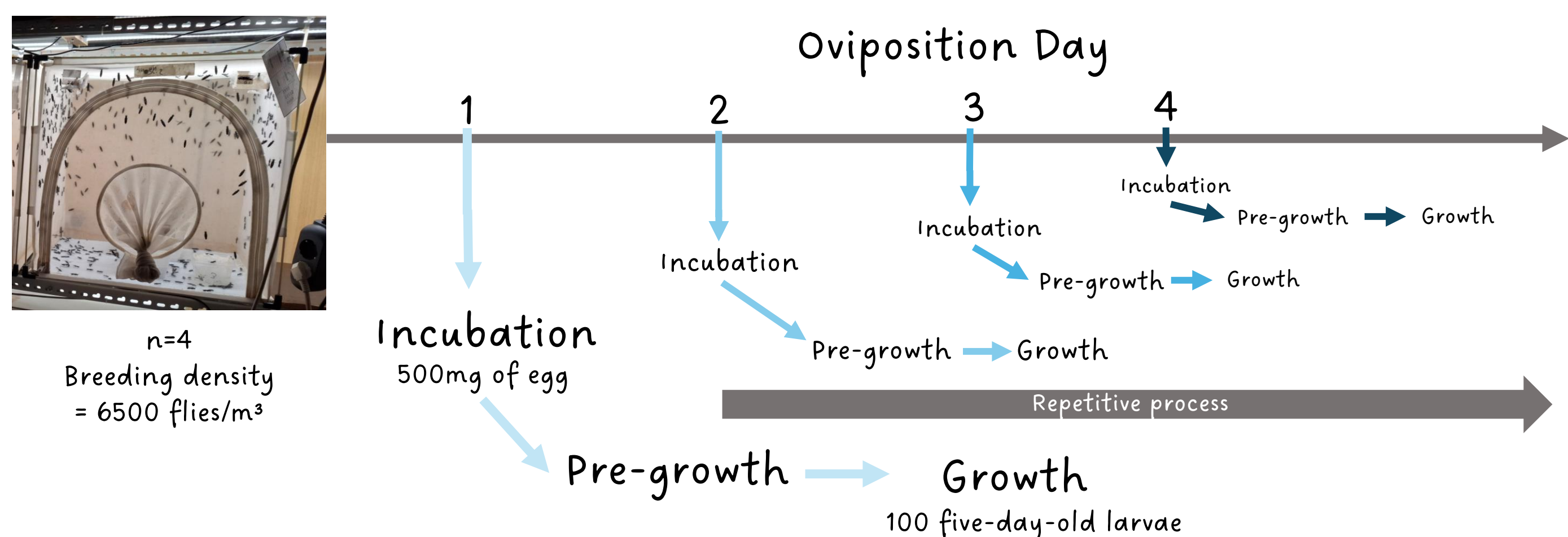
2: Chemistry for Sustainable Food and Environmental Systems, UR TERRA, Gembloux Agro-Bio Tech, University of Liege, Gembloux, Belgium

## What are the sources of variability in *H. illucens* experiments?

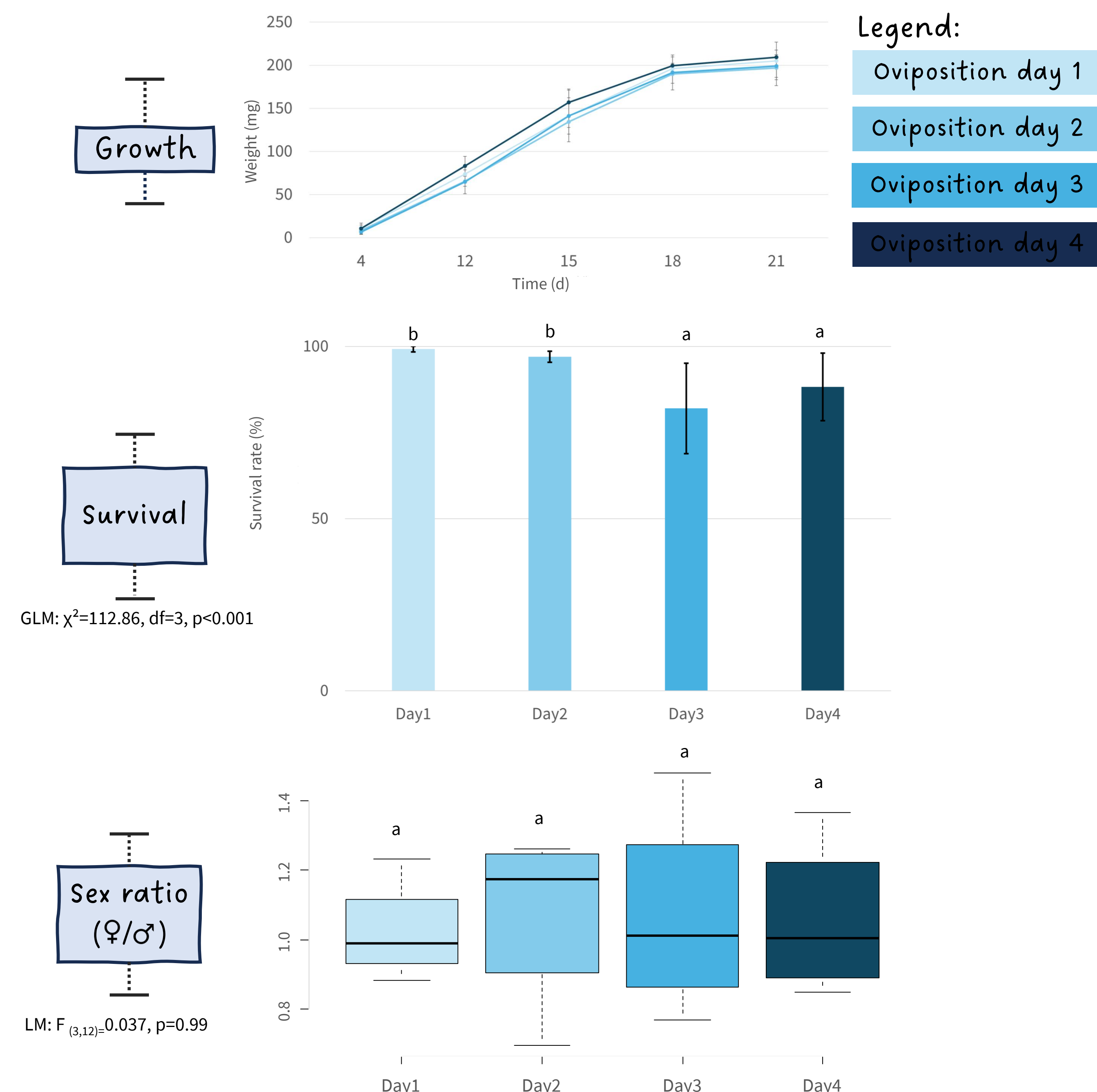


## What about oviposition day?

### Method:

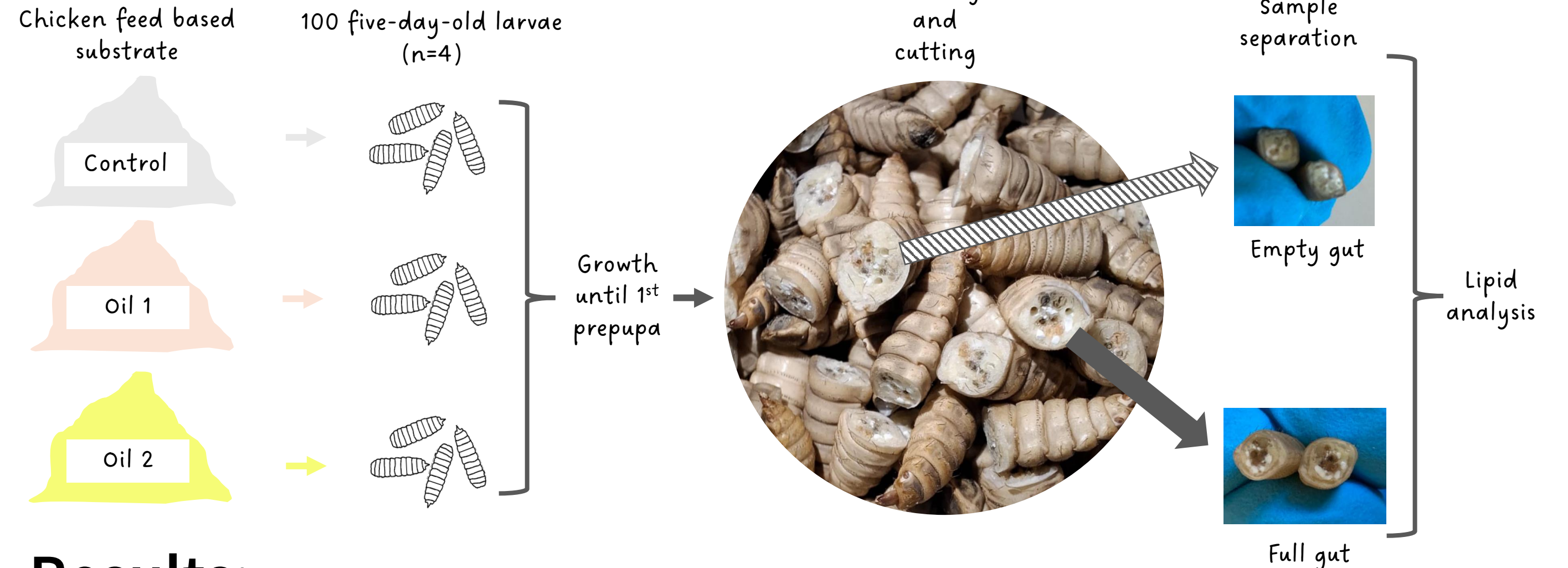


### Results:

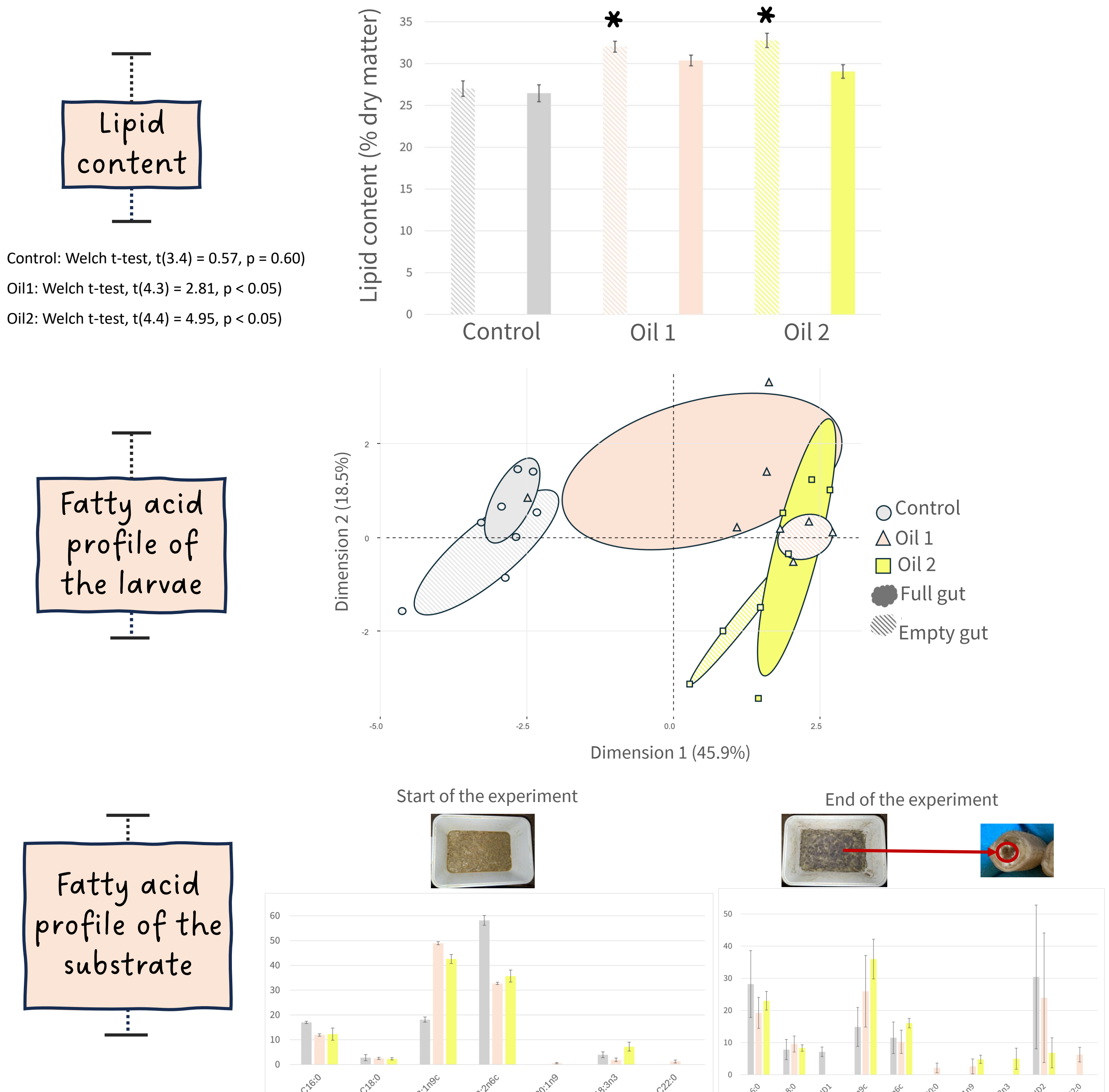


## What about the gut content?

### Method:

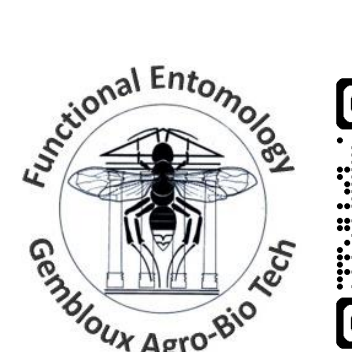


### Results:



## Conclusion:

- The first days of oviposition produce more homogeneous larval populations
- Gut content influence lipid content and fatty acid profile of the larvae
- What about you? Which parameters matter most?



Contacts:  
[entomologie.gembloux@uliege.be](mailto:entomologie.gembloux@uliege.be)  
[joachim.carpentier@uliege.be](mailto:joachim.carpentier@uliege.be)  
[r.caparros@uliege.be](mailto:r.caparros@uliege.be)