Research group: Gipsi LIMA MENDEZ

Research Unit in Biology of Microorganisms (URBM)

Microbiology, **Bio**informatics and **M**icrobial **E**cology

Investigating the complex interactions between mobile genetic elements and their microbial hosts at ecological and molecular levels to gain insights into their respective evolution.

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NAmur Research Institute for LIfe Sciences

UNIVERSITÉ DE NAMUR

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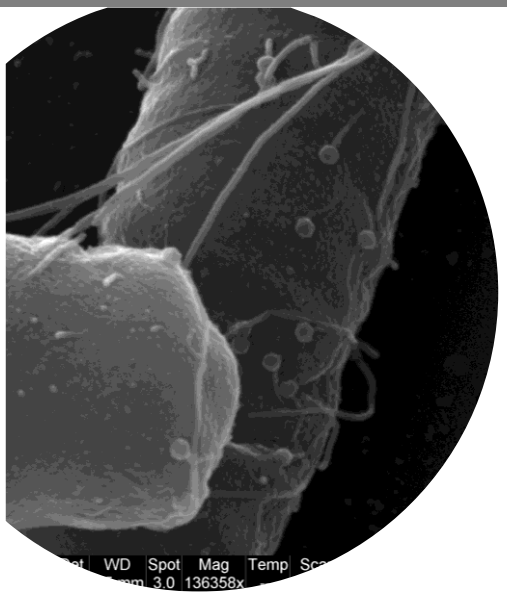

Keywords: Networks, -omics, -bacteriophages, horizontal gene transfer, microbiome

Main interests

1. Prediction and classification of mobile genetic elements (MGEs)
2. Discovering molecular mechanisms of phage-MGEs-bacteria interactions
3. Multi-layer network based modelling the interactions between bacteriophages, MGEs and host.

NaRePI
Namur Research Pole in Infectiology

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PhD students

Rémy DUGAUQUIER

Bioinformatics:
development of ADAM, a computational tool for prediction of bacterial defenses against phages and other mobile genetic elements.

Diana BITTREMIEUX – *from december*

Bacteria-phage interactions in the human gut

Master student

Lara PELZER

Experimental validation of *in silico* predicted bacterial defense mechanisms.