

Research group: Francesco RENZI



Envelope biogenesis in Bacteroidetes

Unraveling the molecular mechanisms that underlie pathogenicity and commensalism in bacteria from the phylum Bacteroidetes



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Research Unit in Biology of
Microorganisms



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Model organisms:

- the dog oral commensal and human pathogen *Capnocytophaga canimorsus*
- the free-living environmental bacterium *Flavobacterium johnsoniae*



Main research lines:

- Envelope biogenesis and homeostasis in Bacteroidetes:

- How do they build their cell envelope?
- How do they deal with envelope stresses?



- Identification of *C. canimorsus* virulence factors and development of novel diagnostic tools:

- The Global *Capnocytophaga* Consortium: Understanding pathogen evolution and virulence at highest resolution across humans and animals.



- Development of novel bacterial hosts for the production of enzymes of industrial, dietary and pharmaceutical interest:

- Transforming *F. johnsoniae* in an enzyme producing factory.



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