

# Research group: Régis HALLEZ



## Bacterial Cell cycle & Stress Response

Our group is interested in understanding how bacteria respond and regulate their cell cycle upon stressful conditions such as nutrient starvation or antibiotics exposure.

Research Unit in Biology of  
Microorganisms (URBM)



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In our research team, we combine genetics, biochemistry and microscopy to study stress response in different models such as the free-living bacterium *Caulobacter crescentus*, the symbiont *Sinorhizobium meliloti* and the pathogens *Brucella abortus*, *Agrobacterium tumefaciens*, *Escherichia coli*, *Acinetobacter baumannii*, *Salmonella enterica*. One of the key stress response regulators we study in all these species is a hyperphosphorylated guanosine used as a second messenger signaling molecule. This guanosine tetra-/penta-phosphate [(p)ppGpp] regulates the growth, metabolism, cell cycle, development, antibiotics tolerance and virulence in response to stressful conditions.



Namur Research Pole in Infectiology

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## Group leader

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