

# Bacterial Genetic : from Evolution to Engineering

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**Effectives:** 20

**Language:** English

**Prerequisites:** none

**Where:** Institut Cochin

**When:** October 3-7

**Evaluation:**

Synthesis at the end of the week

**Number ECTS:** 3

**Total numbers of hours:**  
**1 week**

**Teaching format:**  
conferences

The goal of the module is to give a broad view of the field of microbial genetics today, through talks of scientists working on diverse subjects. The idea is to focus on novel and recent themes of the field. Days are organized to get the big picture through an introductory class summarizing the main concepts on a specific topic and then dive into recent work through researchers presenting in depth their work. The main themes include phages, evolution, synthetic biology, single cell heterogeneity and ancient DNA. Researchers both from academia and the private sector will give seminars, allowing students to also discover research outside the academic world.

Students will be evaluated on providing a written synthesis of the week (similar to what could be asked by a PI after a student attends a conference) that will be written on the last afternoon.