

# Bacterial collective behaviours

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Abstract:

In nature, bacteria often engage in a range of collective behaviors. In this presentation, I will demonstrate how two bacterial behaviors, swarming and biofilm formation, are related by physical interactions, chemical signaling, and dynamical transitions. I will show how these collective behaviors arise from cell-cell interactions, and the physiological state of individual cells. Furthermore, I will introduce new experimental methods for investigating bacterial collective behaviors.

**Friday, May 4<sup>th</sup>, 2018, 13:00**

**Room PH 127**