

Internal Seminar

Bacterial growth on agar plate: Temperature Dependence

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We study how temperature affects the doubling and spreading of motile and non-motile bacterial colony. We conduct liquid culture experiments to find the temperature dependence on growth rate. To study the spreading of colony we conduct experiments on agar plates. We show that the motile bacteria spread faster than the non-motile bacteria. We quantify the speed of the colony growth in terms of growth rate and diffusivity. Our analysis shows that diffusivity of motile bacterial colony is temperature dependent.

Thursday, Nov 3rd 2016

4:00 PM (Tea/Coffee at 3:45 PM)

Seminar Hall, TCIS