

Directed dispersal of bacteria swimming in confined spaces

- 講師** : Professor Daisuke Takagi
University of Hawaii at Manoa, Honolulu, HI
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概 要

Bacteria disperse over time and space through random moves and turns. The dynamics of bacteria can be significantly altered in confined spaces of relevance to their native habitats. This talk presents some recent experimental observations of bacteria swimming in confined spaces. The results show surprising phenomena featuring bacterial escapes and migration. These behavioral responses are interpreted using basic physical and hydrodynamic principles. The findings suggest that the physical landscape can profoundly impact the dynamics and distribution of bacteria.

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連絡教員 西口 大貴 (内線 2447)