

FRIS

Informal seminar

第80回 学際科学フロンティア研究所インフォーマルセミナー

80

2015.

12/16

WED

10:00-11:30

会場 学際科学フロンティア研究所
3F 交流スペース

Insight into bacterial metabolic function: from enzymes to cell-cell interactions

講師:

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The bacterium *Escherichia coli* (*E. coli*) is a simple and valuable model to study fundamental cellular processes. While it is one of the best-characterized organisms, the function of many of its genes and the regulation of its metabolic network are still only partially characterized. We have therefore been developing and using analytical chemistry approaches to explore metabolic function in this organism. In this seminar, I would like to provide an overview of the metabolomics platform we have been using and present some of our findings. First, results about the screening and discovery of some novel metabolic enzymes as well as an overview of the response of *E. coli* adapted to growth on glycerol will be introduced. In the second part, I would like to discuss results about emerging temporal organization of metabolic function in cell populations and how this connects to a developing study about spatio-temporal pattern formation in *E. coli*.

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研究者間の交流を活発化し
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インフォーマル・セミナーを
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