

CMMA Monthly Seminar

第 29 回 CMMA 月例セミナー

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Mutualism based on reciprocal exchange of costly services must avoid exploitation by “free-riders”. When acquiring symbionts from its environment, a host usually discriminates cooperative symbionts from free-riders. On the other hand, when inheriting symbionts from its parent, a host usually receives only cooperative symbionts, because the parent would fail to proliferate if it held free-riders. Since these mechanisms, discrimination and parent-offspring transmission, that discourage free-riding are essential to mutualism, their evolution is a central question to be investigated for understanding the evolution of mutualism. In this talk, I will describe my theoretical studies about the evolution of these mechanisms. In addition, I will discuss the evolutionary transition between the two types of mutualism: mutualism by environmental acquisition and that by parent-offspring transmission.

Evolutionary
emergence and maintenance of
mutualistic symbiosis

日時：2018 年 11 月 21 日（水） 16:30-17:30

場所：明治大学 中野キャンパス高層棟 6 階 研究セミナー室 3

主催：

文部科学省 共同利用・共同研究拠点
明治大学先端数理科学インスティテュート
現象数理学研究拠点 (CMMA)



■連絡先

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