# The 74th iCeMS SEMINAR

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演　題：**Pdr5 — an ABC transporter for all seasons?**

講演者：**Prof. Dr. Lutz Schmitt**
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場 所： 京都大学 アイセムス本館 2階（東一条北西角）
セミナー室（A207）

Multidrug resistance can be a major challenge in the therapy of cancer and pathogenic fungal infections. More than three decades ago, P-glycoprotein was the first multidrug transporter identified, and P-gp has been extensively studied at the genetic and biochemical levels ever since. Pdr5, the most abundant ABC transporter in Saccharomyces cerevisiae, is highly homologous to azole-resistance-mediating multidrug transporters in fungal pathogens, and a focus of clinical drug resistance research. Despite functional equivalences, P-gp and Pdr5 exhibit striking differences in their architecture. Here, I will summarize our recent results of mutations that affect substrate selection and transport. These results will be summarized in a model that takes kinetic selection principles into account.

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