

# 発酵生理学 特別セミナー

◆ 平成 25 年 10 月 4 日（金） 16:00～17:30

農学部総合館 W502 講義室

16 : 00～16 : 45

Prof. Stefan Lutz

Chemistry Department, Emory University, Atlanta, USA

## Emerging topics in Enzyme Engineering

1. Engineering biocatalyst function through protein structure and dynamics (Mechanistic and dynamics studies of lipase B from *Candida antarctica*)
2. New tricks with old yellow - multidimensional engineering of enoate reductases (Engineering of old yellow enzyme by circular permutation and cofactor substitutions)
3. Directed evolution and enzyme design of orthogonal nucleoside analog kinases (Engineering of therapeutic enzymes for nucleoside analog prodrug activation by directed evolution and Rosetta design)
4. SCRATCHY - chimeragenesis in protein engineering (Random chimeragenesis protocol that has not been presented in quite a while but happy to present if the professors are interested)

16 : 45～17 : 30

Prof. Volker Sieber

Lehrstuhl für Chemie Biogener Rohstoffe  
Technische Universität München, Germany

Biocatalytic conversion of biomass  
for chemicals production  
– From Fermentation to cell-free  
chemoenzymatic processes

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