

ERATO 浅野酵素活性分子プロジェクト講演会・ 生物工学研究センターセミナー

日時：平成 27 年 8 月 12 日（水）14:00～15:00
来聴歓迎（参加自由）

場所：富山県立大学生物工学科 K-115 共同会議室

演者：Andreas Liese 氏 《ハンブルグ工科大学》

演題：「Benefits of Reaction Engineering in Biocatalysis」

要旨：

The sustainable production of bulk and fine chemical compounds is of increasing importance to the chemical and biotechnological industry. Chemo- and biocatalytic transformations are predestined to meet this demand due to their inherent regio- and stereoselective nature.

Successful implementation of biocatalytic processes can only be carried out, if the fields of biology, chemistry and engineering are considered at the same time.

In this context different examples are discussed stressing the impact of classical physico chemical principles on biocatalysts, choice of reactor types on selectivity as well as establishing hybride processes.

In consequence the major messages will be:

- Consider solvent free biotransformations
- Evaluate chemoenzymatic reaction sequences
- Evaluate hybride processes integrating down stream processing
- Consider physico chemical principles kinetics when optimizing biotransformations.
- Consider thermodynamics besides kinetics when optimizing biotransformations.
- Consider influence of reactor type on reaction selectivity.
- Reaction engineering needs to complement molecular engineering

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