



Vortragsankündigung

- im Rahmen des UniCat-Kolloquiums -
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Es spricht: **Professor Peter Leadlay, Department of Biochemistry, University of Cambridge, UK**

Zeit: **Mittwoch, 11. Februar 2009**
17:15 Uhr

Ort: **TU Berlin**
Institut für Chemie, Altes Chemiegebäude
Straße des 17. Juni 115
10623 Berlin
Raum C243

Thema: **Molecular Assembly Lines for Drug Biosynthesis - Adventures in Synthetic Biology**

Abstract: Modular polyketide synthases and non-ribosomal peptide synthetases are giant multienzymes that offer a distinctive paradigm for enzymatic catalysis, and one uniquely adapted to the ideas of synthetic biology. By making non-natural combinations of the genes for such naturally modular systems, it should be possible to create bioactive analogues of clinically-validated drugs. In practice, there are a number of obstacles to be overcome to realise this ambitious goal, chiefly our lack of understanding of the details of the arrangement and orchestration of the individual enzymatic components within these multienzymes. Recent progress will be described in both analysing bacterial polyketide synthases, and exploiting them for biosynthesis of bioactive compounds as leads in drug discovery.

Organisator: Prof. Dr. R. Suessmuth (TUB)

Gäste sind herzlich willkommen!

Prof. Dr. Matthias Drieß
Sprecher des Exzellenz-Clusters UniCat