

UniCat Colloquium

PROF. DR. ALAN BERRY

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Extending enzyme molecular recognition with an expanded amino acid alphabet

The remarkable power of enzymes as catalysts is derived from the precise spatial positioning of amino acids as a result of a polypeptide folding into its native, active fold. Protein engineers have a wide arsenal of tools available to alter the properties of enzymes but, until recently, have been limited to replacement of amino acids with one of the other naturally occurring proteogenic amino acids.

Here I will describe both standard protein engineering and a new approach to introduce a non-canonical amino acid that results in altered substrate specificity of an aldolases. We also show that the inclusion of a non-canonical acid can produce a novel activity that cannot be achieved by simple substitution with any of the canonical amino acids.

Wednesday, February 22, 2017 at 5:15 PM

TU Berlin, Institute of Chemistry
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall **C 264**

**Prof. Dr. Nediljko Budisa /
Robert Giessmann (TUB)**
Organizers

Coffee and cake will be served 30 minutes before the lecture. Guests are cordially invited to attend!
Prof. Dr. Matthias Driess - Chair of the Cluster of Excellence UniCat - www.unicat.tu-berlin.de

