

## UniCat Colloquium

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Lecturer: **Prof. Dr. rer. nat. Hildgund Schrempf**, Department of Biology and Chemistry, Osnabrück University, Germany

Title: **The Repertoire and Function of Catalytically Active Extracellular Proteins from Antibiotic-Producing Streptomycetes**

Abstract: Due to many elaborate strategies, the naturally abundant and antibiotic-producing streptomycetes -a large group of soil-inhabiting bacteria- are highly versatile to cope with rapidly changing environmental conditions within their diverse habitats. This adaptation includes the concerted action of surface-anchored and secreted extracellular proteins including those that target, hydrolyze and utilize abundant biopolymers. Using tools of biochemistry, molecular and structural biology, physiology as well as electron microscopy, we succeeded to unravel novel strategies of streptomycetes interacting with biopolymer-containing fungi. These principles require extracellular tools for recognition and multicomponent enzyme systems. The integrated studies contribute to a deeper understanding of complex catalysis-assisted processes that have important application values in different disciplines such as chemistry, biotechnology and biology.

Date: **Wednesday, 22 June 2011**

Time: **5:15 pm - around 6:45 pm**

Location: **TU Berlin, Institute of Chemistry,  
Straße des 17. Juni 115, 10623 Berlin  
Building C, Lecture Hall C 243**

Organiser: **Dr. Ullrich Keller (TUB)  
Prof. Roderich Süßmuth (TUB)**

Coffee and tea will be served thirty minutes prior to the lecture start.  
**Guests are cordially invited to attend!**

Prof. Dr. Matthias Driess, Chair of the Cluster of Excellence UniCat