

## Plenary Speaker

**Prof. Dr. Frank Petersen**  
**Novartis Pharma AG Basel / Switzerland**

## Costs

**35 € - students**

**70 € - professors**

## **100 € - industry members**

(book of abstracts, conference dinner and coffee breaks included)

## Registration

**For online registration and further information please visit our website:**

[www.chemie.tu-berlin.de/suessmuth/vaam](http://www.chemie.tu-berlin.de/suessmuth/vaam)

## Organisation



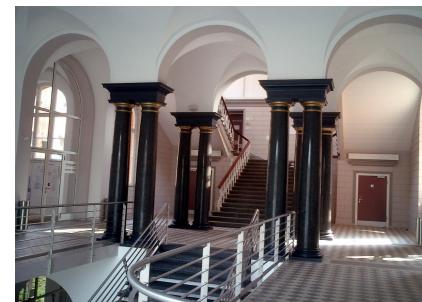
**Prof. Dr. Roderich Süssmuth  
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Technical University of Berlin, Department of Chemistry (Building C), Strasse des 17. Juni 115, 10623 Berlin/Public transport: U-Bahn U2 (Ernst-Reuter-Platz) or S-Bahn (Tiergarten).



VAAM International Workshop

## „Biology and Chemistry of Antibiotic-Producing Bacteria“

# Symposium



**29<sup>th</sup> September - 1<sup>st</sup> October 2008  
Technische Universität Berlin**

## Monday, 29<sup>th</sup> September 2008

- 08.30 - 10.00 Registration in building C (see map)  
10.00 - 10.15 Opening and Welcome  
Prof. Dr. Christian Thomsen, Dean of Faculty  
Prof. Dr. Roderich Süssmuth, Organisation  
10.15 - 11.00 Plenary speaker:

### Prof. Dr. Frank Petersen

Novartis Pharma AG Basel (Switzerland)

#### "Natural Products – Variations on a complex theme"

#### 11.00 Lecture Session I „SCREENING“

##### (Chair: Dr. van Keulen)

- 11.00 (L1: Prof. Imhoff, J., IFM-GEOMAR Kiel, DE): „Marine microorganisms represent a rich source of new natural products“  
11.20 (L2: Dr. Vater, J., TU Berlin, DE): „Mass spectrometric screening for secondary metabolites in bacilli“  
11.40 (L3: Dr. Fisch, K. M., University of Bonn, DE): „Searching for polyketide gene clusters in sponge metagenomes“  
12.00 (L4: Garcia, R., University of Saarland, DE): „Search for novel myxobacteria: possibilities and prospects for novel compounds“  
12.20 (L5: Dr. Grond, S., University of Göttingen, DE): „The inventive talent of new natural product structures in chemistry and biology“  
12.40 (L6: Dr. Paululat, T., University of Siegen, DE): „New quinones from *Streptomyces* sp. Acta 1362“

13.00 Lunch

#### 14.20 Lecture Session II „BIOSYNTHESIS I“

##### (Chair: Dr. Gomez-Escribano)

- 14.20 (L7: Buntin, K., University of Saarland, DE): „Production of the highly antifungal ajudazols in *Chondromyces crocatus* Cm c5: biosynthetic machinery and cytochrome P450 tailoring modifications“  
14.40 (L8: Erb, A., University of Freiburg, DE): „Investigations of glycosyltransferases involved in saquayamycin Z and galtamycin B biosynthesis“  
15.00 (L9: Revermann, O., University of Saarland, DE): „Biosynthesis of the bicyclic tetrapeptide citilin“

15.30 - 17.00 Short Introduction of Posters Part I (P1-P33)

#### 17.15 Poster Presentation Session I (P1-P33)

with discussion at the posters and drinks

The poster presentations (Session I and II) will take place in the main building of the TU Berlin, Building H, Second floor.

## Tuesday, 30<sup>th</sup> September 2008

#### 09.00 Lecture Session III „CELL CYCLE AND SIGNALLING“ (Chair: Dr. Gust)

- 09.00 (L10: Prof. Schulz, S., TU Braunschweig, DE): „Volatile compounds from bacteria“  
09.20 (L11: Lorenzen, W., University of Saarland, DE): „Ether lipid formation in myxobacteria“  
09.40 (L12: Dr. Claessen, D., University of Groningen, NL): „Formation of fimbriae during attachment of *Streptomyces coelicolor*: roles for cellulose and amyloids?“

10.00 VAAM Business Meeting

10.15 Coffee break

#### 10.40 Lecture Session IV „REGULATION“

##### (Chair: Dr. Ortiz de Orué Lucana)

- 10.40 (L13: Prof. Suess, B., University of Frankfurt, DE): „Small regulatory RNAs in *Streptomyces coelicolor*“  
11.00 (L14: Yu, Q., University of Tübingen, DE): „Multiple regulation of nanchangmycin biosynthesis in *Streptomyces nanchangensis* NS3226“  
11.20 (L15: Bogel, G., University of Osnabrück, DE): „Characterisation of the two-component system SenS/SenR and elucidation of its role in concert with the heme-binding protein HbpS in *Streptomyces reticulatus*“  
11.40 (L16: Pross, E., University of Tübingen, DE): „Investigations on kirromycin regulation and resistance in the producer strain *Streptomyces collinus* TÜ 365“  
12.00 (L17: Wagner, N., University of Applied Sciences Esslingen, DE): „Regulation of the friulimycin biosynthesis in *Actinoplanes friuliensis*“  
12.20 (L18: Dr. Reuther, J., University of Tübingen, DE): „GlnR-mediated regulation of nitrogen assimilation in *Streptomyces coelicolor*“

12.40 Lunch

#### 14.00 Lecture Session V „BIOSYNTHESIS II“ (Chair: Dr. Weber)

- 14.00 (L19: Dr. Luzhetsky, A., University of Freiburg, DE): „Novel synthetic genetic system for actinomycetes“  
14.20 (L20: Merettig, N., University of Wuppertal, DE): „A new α-glucosidase subfamily from acarbose producing actinobacteria: biochemical characterization and the physiological role for the producer strains“  
14.40 (L21: Kwan, D. H., University of Cambridge, UK): „Elucidating the stereochemical control of enoylreductase domains in modular polyketide synthases“  
15.00 (L22: Dr. Spiteller, D., Max-Planck-Institute, DE): „3-Methylarginine, a toxin from the epiphyte *Pseudomonas syringae* pv. *syringae* 22d/93“

15.20 Coffee break

#### 15.45 - 17.15 Short Introduction of Posters Part II (P34-P64)

#### 17.15 Poster Presentation Session II (P34-P64) with discussion

19.30 Conference Dinner and boat trip on the river Spree

## Wednesday, 1<sup>st</sup> October 2008

#### 09.00 Lecture Session VI „BIOSYNTHESIS III“ (Chair: Dr. Wehmeier)

- 09.00 (L23: Dr. Lautru, S., University of Paris, FR): „Insights on congocidine biosynthesis, a pyrrole amide antibiotic produced by *Streptomyces ambofaciens*“  
09.20 (L24: Rachid, S., University of Saarland, DE): „Novel chemistry in the biosynthesis of the antibiotic chondrochlorens“  
09.40 (L25: Daum, M., University of Freiburg, DE): „Insights in γ-butyrolactone formation in phenalinolactones‘ biosynthesis“  
10.00 (L26: Kaysser, L., University of Tübingen, DE): „A gene cluster for the biosynthesis of caprazamycins in *Streptomyces* sp. MK730-62F2“

10.20 Coffee break

#### 10.40 Lecture Session VI „BIOSYNTHESIS IV“

##### (Chair: Dr. Weissman)

- 10.40 (L27: Dickschat, J., TU Braunschweig, DE): „New aspects in the biosynthesis of lankacidins“  
11.00 (L28: Binz, T., University of Saarland, DE): „Identification of the GE81112 biosynthetic gene cluster“  
11.20 (L29: Dehn, R., University of Hannover, DE): „Chemistry and biology of elansolid A – a new secondary metabolite from *Flexibacter*“  
11.40 (L30: Prof. Garbe, L., TU Berlin, DE): „Yeast catalyzed stereoselective transformation of epoxy fatty acids into bioactive hydroxylactones“

12.00 Closure