



## Elite Study Program in Macromolecular Science

# Module

## Bayreuther Strukturtage

July 22-23, 2010  
Schloss Thurnau, Germany

**Prof. Paul Rösch (UBT)**  
**PD Dr. Stephan Schwarzinger (UBT)**

**Summer term 2010**

The teaching module in the summer term 2010 within the Elite Study Program „Macromolecular Science“ is on Structural Biology. This interesting research field involves different disciplines like biology, chemistry and physics. The module consists of two parts.

### **I. Participation at the conference “Bayreuther Strukturtage”, July 22-23, 2010, Schloss Thurnau**

The “Bayreuther Strukturtage” are organized by the Research Center for Bio-Macromolecules in cooperation with the ENB International Graduate School “Lead Structures of Cell Function”. The central topic of the conference is the investigation of biomacromolecular structures and their interactions. Structural information is the key to understand how the respective molecules can exert their physiological function or how certain molecules can be used as pharmaceuticals. The molecules studied are involved in diverse important biological processes like prokaryotic transcription, neuronal signalling, mitosis or virus proliferation. The techniques used for these studies range from classical structure determination methods like NMR spectroscopy and X-ray crystallography over bioinformatics and optical spectroscopy to miscellaneous biochemical assays.

The diversity of the conference is not only granted by the broad range of techniques and research topics, but also by the mixture of speakers. Senior researchers from Germany and Europe will present their work as well as graduate students from the BioMedTec International Graduate School of Science (BIGSS) which is also a part of the ENB. The scientific level of the presentations will be adequate for interested students. As there will be much time for discussion with the speakers, the conference represents a good opportunity for the students to get oriented for their future research career.

### **II. Poster presentation at the conference or seminar on scientific topics covered by the conference**

There are two options for the second part of the module. The first option is open for students doing research in related fields of the conference. They are invited to present their own results in form of a poster at the conference.

Alternatively, the students can give a seminar dealing with a topic of the conference. For this purpose, the participants should form interdisciplinary groups consisting of 2 students who will prepare the seminar together. The duration of a seminar should be 30 minutes per group.

Marks for this module will be given based upon either the poster presentation or the seminar.

## **Registration**

The conference is free for “Macromolecular Science” students, but you should register as soon as possible (deadline: april, 30<sup>th</sup> 2010) either personally or by phone at the secretary's office of the Department of Biopolymers, BGI, 2nd floor (Phone: 0921-553541) or write an e-mail to [strukturtag2010@bio-mac.eu](mailto:strukturtag2010@bio-mac.eu). Regarding the costs for transportation, you should fill in a „Dienstreiseantrag“ indicating the “Macromolecular Science”-Kostenstelle. If you have any questions, just contact the secretary's office (see above).

## **Transportation**

Thurnau is a small village approx. 20 km northwest of Bayreuth. It is difficult to reach Thurnau by public transport. The easiest and fastest way is to go by car, so it would be best if the participants could form car pools. From Bayreuth, you take the B85 towards the highway A70. After passing through Altenplos, you turn left into the St2189 towards Thurnau. Thurnau is small enough that you will easily find the castle located next to the market square.

## **Accommodation**

Attendees and speakers will be accommodated directly at the conference location “Schloss Thurnau” or in guesthouses near the conference location.

## **Posters**

Poster walls and mounting material will be provided at Schloss Thurnau. Time and exact place for mounting the poster will be announced.

## **Meals**

Breakfast, lunch and dinner will be served at Schloss Thurnau. Coffee and soft drinks will be available during breaks directly at the conference location.



## Preliminary Program

<b>Transcription Symposium</b>  Dedicated to <i>Prof. Max E. Gottesman</i> on the Occasion of His 75 <sup>th</sup> Birthday  Wednesday, July 21 <sup>st</sup>	<b>Bayreuther Strukturtage 2010</b>	
	Thursday, July 22 <sup>nd</sup>	Friday, July 23 <sup>rd</sup>
	08:30-10:30 <i>Crystallography</i> Opening Karoline Kisker, Würzburg Research Talk 1 Bodo Sander, Würzburg Bernd Gardill, Erlangen	08:30-10:30 <i>Proteins</i> Thomas Scheibel, Bayreuth  Short Talk 2 Short Talk 3 Franz Schmid, Bayreuth
	10:30-11:00 Coffee	10:30-11:00 Coffee
11:00-13:30 Opening Maria Schumacher, Houston  Alan Cheung, Munich  Sabine Wenzel, Bayreuth	11:00-13:00 <i>Cell Biology</i> Simone Reiprich, Erlangen Andrea Kühn, Würzburg Barbara Zielke, Erlangen Katrin Zielke, Erlangen	11:00-13:00 <i>Bioinformatics</i> Kristin Kassler, Erlangen Silke Wieninger, Bayreuth Alexander Keller, Würzburg Short Talk 4
	13:00-14:30 Lunch	13:00-14:30 Lunch
13:30-15:00 Lunch	14:30-15:30 Poster Session I (presenting: even numbers)	14:30-16:30 <i>Biophysics</i> Udo Heinemann, Berlin
	15:00-19:00 Transcription Short Talk 1  Transcription Short Talk 2 Björn Burmann, Bayreuth  Coffee  Evgeny Nudler, New York  Max Gottesman	15:30-16:30 Poster Session II (presenting: odd numbers)
	16:30-18:30 <i>Bio-NMR</i> Michele Vendruscolo, Cambridge Short Talk 1 Maximilian Hartl, Bayreuth  Philipp Weiglmeier, Bayreuth	
	18:30-open end Dinner	
19:00-20:30 Dinner	Graduation Ceremony 2009/10	
Strukturtage 2010 Discussion: „From Research to Business Foundation“ Roland Kreutzer, Roche Kulmbach		