

# IGK Student Retreat

September 30<sup>th</sup> – October 2<sup>nd</sup> 2019

Jugendherberge Hamburg Horner Rennbahn  
Rennbahnstr. 100, 22111 Hamburg

SFB  
1078



Protonation Dynamics  
in Protein Function

## Program

Monday, 30.09.2019	
8:00	Meet at Berlin ZOB
8:15	Departure from Berlin ZOB
12:00	Arrival at the hostel
12:30	Lunch (Canteen)
14:00	Welcome and Introduction to the SFB 1078 Paul Greife and Sarah Mäusle

### Session I: Introduction to the Protein Systems

Chair: Sarah Mäusle

14:15	Ricardo Assunção <i>Photosystem II</i>
14:40	Markus Göbel <i>Cytochrome c Oxidase</i>

### Session II: Introduction to Biophysical Methods

Chair: Ricardo Assunção

15:05	Rana Hussein <i>Crystallography</i>
15:30	Coffee Break
16:00	Stefanie Schrottke <i>EPR</i>

### General Skills and Organisational Meeting

16:25	Sarah Mäusle <i>Introduction to L<sup>A</sup>T<sub>E</sub>X</i>
16:50	IGK Meeting (Graduate School Organisational Meeting)

17:45	Dinner (Canteen)
19:00	Poster Session

**Tuesday, 01.10.2019**

### **Session III: Introduction to Biophysical Methods**

Chair: Pit Langner

9:15	Jens Balke <i>Fluorescence</i>
9:40	Florian Brüning <i>IR Theory</i>
10:05	Federico Baserga <i>IR and Microfluidics</i>
10:30	Coffee Break

### **Session IV: Biophysical Methods/Invited Speaker**

Chair: Paul Greife

11:05	Pit Langner <i>TRIR, QCL, DCS</i>
11:30	Invited Speaker: <b>Sebastian Schäfer</b> <i>Moving From Academia to Industry</i>

12:30	Lunch (Canteen)
14:00	Poster Session / Coffee

### **Session V: Invited Speakers**

Chair: Maryam Sadeghi

15:30	Invited Speaker: <b>Andreas Barth</b> <i>Shining Infrared Light on Alzheimer's Disease</i>
16:30	Invited Speaker: <b>Janne Ihalainen</b> <i>A motion of biliverdin in bacteriophytochromes observed – now what?</i>
17:30	Coffee Break

### **Session VI: Biophysical Methods**

Chair: Anastasia Kraskov

18:00	Krzysztof Buzar <i>QM/MM calculations</i>
18:25	Johannes von Saß <i>Incorporation of ncAA</i>

19:30	Depart for Dinner
20:00	Conference Dinner at <b>Gasthaus Heimathafen</b>

<b>Wednesday, 02.10.2019</b>	
8:30	Departure to XFEL
10:00	XFEL Visit/ Talk and Tour
11:30	Departure from XFEL
13:00	Lunch "on the go"

## **Session VII: Results from the SFB 1078**

Chair: Florian Brüning

14:00	Anastasia Kraskov <i>Elucidating Roles of Amino Acid Residues in the Chromophore-binding Pocket of Agp2</i>
14:20	Koaling Guan <i>Structural Study of Plant Phytochrome A</i>
14:40	Michalis Lazaratos <i>Dynamic hydrogen-bond networks of channelrhodopsin variants. Developing new algorithms for efficient analyses.</i>
15:00	Nick Oliver <i>Evolution of PSII: Evidence for a Manganese-oxide Producing Ancestral Complex</i>
15:20	Maryam Sadeghi <i>Conformation Dynamics at the Surface of Phytochromes and Photophysical Properties of the Fluorescent Phytochrome</i>
15:40	Paul Greife <i>FTIR on Photosystem II: New Insights</i>

16:00	Coffee Break & Closing Remarks
16:30	End of Retreat
17:45	Departure Hamburg ZOB

Organizers: Paul Greife, Sarah Mäusle, Pit Langner, Maryam Sadeghi and Ricardo Assunção

Special thanks to Sylvia Luther for her support.

Funded by the SFB 1078.