

Collaborative Research Center – SFB 1078 International Phytochrome Workshop 2018

October 09 - 10, 2018
Freie Universität Berlin, Physics Department

Program

Tuesday, Oct. 09, 2018

9:00	Welcome, Joachim Heberle		
9:30 – 11:00 Chair: Maria Andrea Mroginski			
9:30	Clark Lagarias , <i>College of Biological Science, University of California Davis</i> Heterogeneity in the Phytochrome Superfamily	(30 min)	
10:00	Katrina Forest , <i>Department of Bacteriology, University of Wisconsin Madison</i> Structure-based Investigations of Phytochrome Function	(30 min)	
10:30	Ernest Burgie , <i>Department of Biology, Washington University in St. Louis</i> Structural, photochemical and thermal properties of plant and bacterial Phytochron	(30 min) nes	
11:00	Coffee break in the Cafeteria		
11:30 – 12:50 Chair: Peter Hildebrandt			
11:30	Tilman Lamparter , Institut für Botanik, Karlsruher Institut für Technologie How Agrobacterium fabrum responds to light	(30 min)	
12:00	Norbert Krauß, Institut für Botanik, Karlsruher Institut für Technologie In Pr the photosensory core modules of phytochromes adopt highly flexible structur	(30 min) res	
12:30	Patrick Scheerer, <i>Institute of Medical Physics and Biophysics, Charité Berlin</i> Structural snapshot of a bacterial phytochrome in its functional intermediate state	(20 min)	
12:50	Lunch break in the Cafeteria		
14:30 – 16:00 Chair: Patrick Scheerer			
14:30	Andreas Winkler, <i>Institut für Biochemie, Graz University of Technology</i> Molecular mechanisms involved in asymmetric activation of bacteriophytochromes	(30 min)	
15:00	Emina Stojkovic, <i>Northeastern Illinois University</i> Light control of cell development revealed by crystal structures of myxobacterial phytochromes	(30 min)	
15:30	Allen M. Orville, XFEL Hub at Diamond, Diamond Light Source, Oxfordshire Dynamic Structures of Phytochromes Probed by Time-Resolved and Acoustic Injecto Methods at XFELs	(30 min) or	
16:00 -	- 16:30 Coffee break in the Cafeteria		
16:30– 17:20 Chair: Franz Bartl			
16:30	John Kennis, Vrije Universiteit Amsterdam On phytochrome fluorescence	(30 min)	
17:00	Ulrike Alexiev, Freie Universität Berlin Phytochrome protonation and conformational dynamics	(20 min)	

18:00 Dinner buffet in the Cafeteria

Wednesday, Oct. 10, 2018

9:30 – 11:00 Chair: Ulrike Alexiev			
9:30	Janne Ihalainen, Universtity of Jyväskylä Some secrets of Pr-state of a bacteriophytochrome	(30 min)	
10:00	Karsten Heyne, Freie Universität Berlin Impact of the ultrafast photoreaction on hydrogen bond networks in phytochrome	(20 min)	
10:20	Franz Bartl , <i>Humboldt Universität Berlin</i> Towards the molecular mechanism of phytochrome activation: A vibrational spectro approach	(20 min) oscopic	
10:40	Peter Hildebrandt, <i>Technische Universität Berlin</i> Towards the molecular mechanism of phytochrome activation: A vibrational spectro approach	(20 min) oscopic	
11:00	Coffee break in the Cafeteria		
11:30 – 13:00 Chair: Karsten Heyne			
11:30	Maria Andrea Mroginski, Technische Universität Berlin Computational studies on bacterial phytochrome	(20 min)	
11:50	Igor Schapiro, Hebrew University of Jerusalem Resolving the Red-Green Spectral Tuning Mechanism in Cyanobacteriochrome Slr1393g3 by QM/MM Simulations	(30 min)	
12:20	Tatiana Domratcheva, <i>Max Planck Institute for Medical Research</i> Color tuning and charge transfer mechanisms of phytochromes characterized by quantum-chemical calculations	(30 min)	
12:50	Lunch break in the Cafeteria		
14:30 – 15:10 Chair: Jon Hughes			
14:30	Jörg Matysik, Institut für Analytische Chemie, Universität Leipzig Solid-state NMR studies in Tetrapyrrole photoreceptors	(30 min)	
15:00	Hartmut Oschkinat, FMP Berlin NMR investigations of phytochromes	(20 min)	
15:20	Jon Hughes, Pflanzenphysiologie, Justus Liebig Universität New stuff about Cph1 and plant phytochromes	(20 min)	
15:40 – 16:15 Coffee / tea time in the Cafeteria			
16:15 – 18:00 Discussion Round in the library			

Introduction and Moderation: Maria Andrea Mroginski and Patrick Scheerer Last update: Oct.8th 2018



- 1 Physics Department, Arnimallee 14, 14195 Berlin-Dahlem
- 2 Seminaris Campus Hotel, Takustr. 39, 14195 Berlin-Dahlem
- 3 Harnack-Haus, Ihnestr. 16-20, 14195 Berlin-Dahlem

Wireless Network Access for Guests

Connect to the wireless network with the SSID "conference" and open an arbitrary web page. Instead of that page a form will appear, which asks for the following key: h4vk7r6x

Note: For technical reasons the connection to the wireless network may be interrupted at midnight. The key is also valid for the following day and must be re-entered in order to continue using the wireless network.

Attention: Connections to the wireless network "conference" are not encrypted and can be eavesdropped. To ensure confidentiality and encryption, please use appropriate protocols (https, ssh, VPN).

The symposium is supported by:

