

September 16–19, 2018 Düsseldorf, Germany



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Main Program







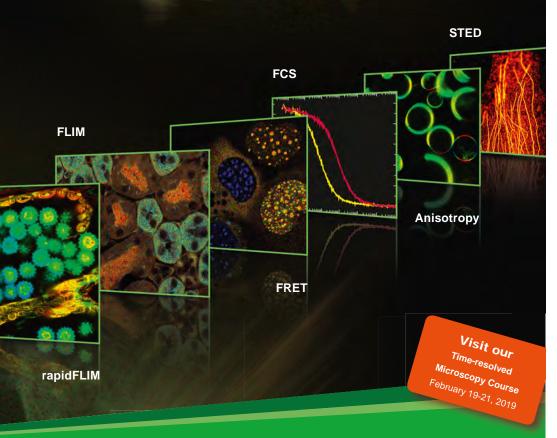




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HORIBA Scientific



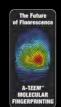


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Welcome Message

Dear Colleagues and Friends

With great pleasure, and on behalf of the German Biophysical Society, we cordially welcome you to Heinrich Heine University Düsseldorf for the Biennial Meeting of the DGfB.

Mission

This meeting is intended to promote lively discussions at the overlap areas of Physics, Chemistry, Biology and Medicine. It is YOU – the speakers, those who contribute posters, and all who advance our knowledge in biophysics by active participation and discussions – who will shape the congress and make it a success.

The House of Biophysics

The DGfB has three subgroups: Molecular Biophysics; Membranes, Cells and Networks; Medical Biophysics that aim at bringing together scientists with a wide range of interests within the broad biophysical community. Moreover, the Biennial Meeting has also joint sessions co-organized with the Society for Biochemistry and Molecular biology (GBM, study group Biophysical Chemistry), German Bunsen Society for Physical Chemistry (DBG) and the German Physical Society (DPG, Fachverband Biological Physics) to extend the coverage even further:

- Biomolecules and their assemblies: from structure and dynamics to function
- · Biophysics of membranes and membrane proteins
- Energy transduction involving light harvesting, electron transfer and proton transfer
- · Computational biophysics
- · Imaging molecules of life
- · Cell biophysics meets systems and synthetic biology
- · Physics of disease and cancer

Actually, following the ideas of the former chair of the DGfB, Klaus Peter Hofmann, biophysical research can be described as a house with many rooms in the densely built city of science, where altitude correlates with the complexity of the systems being treated.

		Biology		
Engineering		Systems biology Cell biology		Medicine
Synthetic biology	Molecular biology	Medical biophysics Biophysics of modules: assemblies, cells, networks (self organisation, regulation)	Bioinformatics	
Macromolecular chemistry	Biochemistry	Biophysical chemistry / Molecular biophysics	Structural biology (X-ray, NMR, EM)	Medical physics
Colloid chemistry	Physical chemistry	Theoretical biophysics / Computational biophysics	Omics-technologies / Bioanalytics	Physiology Electrophysiology
Soft Matter		Development of experimental research methods		
	***************	Physics, Chemistry		

Let us explore and enjoy the science in the House of Biophysics and showcase the newest science such as Young Investigator Awards to be presented an extra plenary session. To stimulate personal discussions, we will have two poster sessions and an exhibition. Please do not forget to consider visiting the satellite workshop "Advanced Fluorescence Spectroscopy and Imaging", September 19, 14:00 – September 20, 15:00.

Acknowledgements

Many thanks go in advance to all participants who present their work and contribute to lively discussions. We also thank the scientific committee for supervising the program and in particular event lab. GmbH (Mrs. Sara Rosenblatt, Mrs. Clarissa Strietzel and André Störmer), who coordinated everything at and around the conference and kept track of all the requirements for both the annual meeting and the satellite workshop.

Additionally, we gratefully acknowledge the support of the German Research Foundation (DFG), the Fonds der chemischen Industrie (FCI), CRC-1208 (Identity and Dynamics of Membrane Systems - from Molecules to Cellular Functions) and the International Helmholtz Research School of Biophysics and Soft Matter (BioSoft) as well as all the companies sponsoring our meeting. Lastly, our sincere thanks go to HHU for their lecture hall building and to the HHU employees for their great administrative support.

Looking forward to an exciting meeting and fruitful discussions!

Claus Seidel

Chair for molecular physical chemistry

aus Seidel

HHU Düsseldorf

Societies







Research Centers

SFB 1208





Supporters





tion General Information

Conference Office

event lab. GmbH Richard-Lehmann-Straße 12 04275 Leipzig Germany

3 +49 (0) 34 1 98 99 013 4

Conference Venue

Heinrich Heine Universität Building 23.01, lecture halls 3C and 3D Universitätsstraße 40225 Düsseldorf Germany



Wi-Fi

HHU offers eduroam. Please see the registration desk for information on Wi-Fi. User Name: dgfb Password: ihqd\$185

Registration Desk

The registration desk will be located on the ground floor of Building 23.01.

Opening Hours:

 Sunday | September 16, 2018
 17:00-20:00

 Monday | September 17, 2018
 08:00-20:00

 Tuesday | September 18, 2018
 08:00-17:45

 Wednesday | September 19, 2018
 08:00-13:30

Name Tags

Official conference name tags will be required for admission to all conference functions and lectures and to the exhibition area.

Poster Exhibition

The poster exhibition will be opened from Monday to Wednesday on the conference days in the foyer.

Posters can be mount on poster boards from Monday at 07:30. Posters must be removed until Wednesday, 13:00. Left posters will be discarded.

The poster sessions at which each presenter must be available for discussion are scheduled as follows:

Monday | September 17, 2018

Poster session 1 18:45-20:45

Tuesday | September 18, 2018

Poster session 2 13:15-15:15

Authors with an EVEN Poster ID must be present during the first hour. Authors with an ODD Poster ID must be present during the second hour.

Speakers Information

Please come to the room you will present as soon as possible and not later than 15 min before your session starts. All presentations shall be based on PowerPoint-Versions and compatible with Windows-Systems. Other computers or converters are not available. All presenters must therefore bring their presentation in the adequate version on flash drive (USB drive). Technical staff will assist you in the lecture hall.

Book of Abstracts

The digital abstract book can be downloaded as a PDF file from the website or scan the QR Code.



Photography & Copyright

Taking pictures and recording of any kind in the lecture halls and poster exhibition without the prior written consent of the presenter are prohibited.

Industrial Exhibition

The industrial exhibition will be located in the foyer of Building 23.01.

Opening Hours:

Monday | September 17, 2018 08:00-20:45
Tuesday | September 18, 2018 08:00-17:45
Wednesday | September 19, 2018 08:00-13:00

Scientific Committee / Invited Speakers

Scientific Committee

Chair

Claus Seidel (Düsseldorf, GER)

Local Organizing Committee

Holger Gohlke (Düsseldorf, GER)

Philipp Neudecker (Jülich, GER)

Lutz Schmidt (Düsseldorf, GER)

Claus Seidel (Düsseldorf, GER)

Birgit Strodel (Jülich, GER)

Additional Program Committee Members

Hans-Joachim Galla (Münster, GER)

Markus Gerhards (DBG) (Kaiserslautern, GER)

Helmut Grubmüller (Göttingen, GER)

Thomas Gutsmann (Borstel, GER)

Christian Herrmann (GBM) (Bochum, GER)

Daniel Huster (Leipzig, GER)

Sandro Keller (Kaiserslautern, GER)

Sarah Köster (DPG) (Göttingen, GER)

Claudia Steinem (Göttingen, GER)

Invited Speaker

Simon Alberti (Dresden, GER)

Andreas Bausch (München, GER)

Martin Blackledge (Grenoble, FRA)

Axel Brunger (Stanford, USA)

Rainer Böckmann (Erlangen, GER)

Martina Havenith (Bochum, GER)

Thorsten Hugel (Freiburg, GER)

Tanja Mittag (Memphis, USA)

Gunnar Schröder (Jülich, GER)

Ulrich Schwarz (Heidelberg, GER)

Christine Selhuber-Unkel (Kiel, GER)

Harel Weinstein (New York, USA)

Beili Wu (Shanghai, CHN)

(in alphabetic order)

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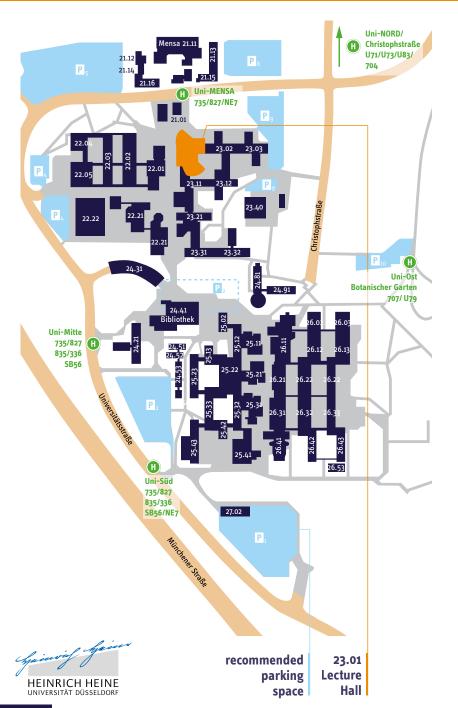
a high bandwith simultaneously from four lipid bilayers

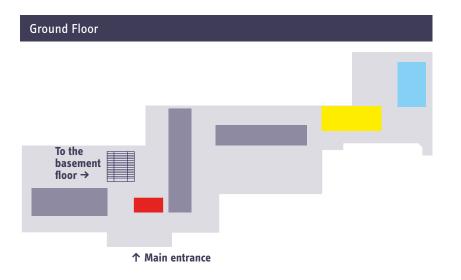


SURFE²R 96SE

✓ Analyze electrogenic transporters, pumps and ion channels using the SSM Technology

Campus Map Floor Plan







	Sunday Septembe	r 16, 2018	
Time	Room HS 3D	Room HS 3C	Foyer
18:00	Welcome		
18:15	Plenary Session 1		
20:00			Get-together
	Monday Septembe	er 1 7 , 2018	
Time	Room HS 3D	Room HS 3C	Foyer
08:00			Poster Exhibition, Industrial Exhibition
08:30	Plenary Session 2		
10:20	Coffee Break		
11:00	Parallel-Session 1a New Techniques	Parallel-Session 1b Cell Biophysics	
12:25	Lunch		
13:15		Lunchsymposium OLYMPUS DEUTSCHLAND GmbH	
14:00	Plenary Session 3		
15:30	Short Break		
15:35	Parallel-Session 2a Biophysics of Chromphores	Parallel-Session 2b Tools for Cell Biophysics	
16:30	Coffee Break		
17:10	Parallel-Session 3a Integrative Analysis of the Structure & Dynamics of Proteins	Parallel-Session 3b Transporters and Channels	
18:45 - 20:45			Poster Session 1

	Tuesday Septemb	er 18, 2018	
Time	Room HS 3D	Room HS 3C	Foyer
08:30	Plenary Session 4		Poster Exhibition, Industrial Exhibition
10:30	Coffee Break		muustrar Exminition
11:00	Parallel-Session 4a Biomolecular Dynamics	Parallel-Session 4b Protein Assemblies and Aggregates-1	
12:25	Lunch		
13:15			Poster Session 2
15:15	Parallel-Session 5a Biomolecular Assemblies	Parallel-Session 5b Protein Assemblies and Aggregates-2	Poster Exhibition, Industrial Exhibition
16: 45	Short Break		
16:50	Young Investigator Award Session		
17:35	Short Break		
17:45	DGfB Section Meetings		
18:15	DGfB General Assembly		
19:30	Conference Dinner at Klo	sterhaus	
	Wednesday Septe	mber 19, 2018	
Time	Room HS 3D	Room HS 3C	Foyer
08:30	Plenary Session 6		Poster Exhibition, Industrial Exhibition
10:15	Coffee Break		industrial Exhibition
10:50	Parallel-Session 6a Structure, Dynamics, Function of Proteins-1	Parallel-Session 6b Membranes-1	
11:50	Parallel-Session 7a Structure, Dynamics, Function of Proteins-2	Parallel-Session 7b Membranes-2	
12:50	Awards and Closing Remarks		

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Scientific Program

18:00	Welcome	Room HS 3D
	Claus Seidel (Düsseldorf, GER), Detlev Riesner (Düsseldorf, GER)	
18:15	Plenary Session 1	Room HS 3D
	Chair: Claus Seidel (Düsseldorf, GER)	
18:15	I-01. Rigorous analyses of allostery can focus the lens on dynamic biomolecular systems Harel Weinstein (New York, USA)	s of
19:05	I-02. The biophysics of RNP granule formation and disease Simon Alberti (Dresden, GER)	
20:00	Get-together	Foye
Mond	ay September 17, 2018	
08:30	Welcome	Room HS 3D
	UnivProf. Dr. med. Klaus Pfeffer (Düsseldorf, GER)	
08:35	Plenary Session 2	Room HS 3D
	Chair: Cornelia Monzel (Düsseldorf, GER)	
08:35	I-03. Pattern formation in cytoskeletal systems Andreas Bausch (München, GER)	
09:10	I-04. Cells as actively responsive systems Christine Selhuber-Unkel (Kiel, GER)	
09:45	I-05. More than just fat: Protein-lipid interactions in protein oligo and signaling Rainer Böckmann (Erlangen, GER)	merization
10:20	Coffee Break Visit of the Industrial Exhibition	Foye
11:00	Parallel-Session 1a - New Techniques	Room HS 3D
	Chair: Tilman Kottke (Bielefeld, GER)	
11:00	T-01. Towards improved biophysical calculations to identify diseas mutations Kresten Lindorff-Larsen (Copenhagen, DNK)	e-causing
11:25	T-02. An optical zeptobalance for single-protein electrophoresis analysis Mahyar Dahmardeh (Erlangen, GER)	
	Manyar Bannarden (Enangen, GEN)	

Scientific Program Scientific Program Monday | September 17, 2018

11:55	T-04. Cancer diagnosis and assessment of targeted breast cancer to Raman microscopy Samir El-Mashtoly (Bochum, GER)	therapy by
12:10	T-05. Structural transformation of wireframe DNA Origami via DNA assisted gap-filling Thorsten Schmidt (Dresden, GER)	A polymerase
11:00	Parallel-Session 1b - Cell Biophysics	Room HS 3C
	Chair: Thomas Gutsmann (Borstel, GER)	
11:00	T-06. Viscoelasticity of cell membranes – from minimal artificial coliving cells Andreas Janshoff (Göttingen, GER)	ortices to
11:25	T-07. Reconciling AFM and MD: Unfolding focal adhesion kinase Csaba Daday (Heidelberg, GER)	
11:40	T-08. The desmosome is mechanically loaded in response to externally applied stress Anna-Lena Cost (Martinsried, GER)	
11:55	T-09. Nanodroplets at lipid membranes undergo morphological tra spontaneously broken symmetry Vahid Satarifard (Potsdam, GER)	ansitions with
12:10	T-10. A cell-topography based mechanism for ligand discriminatio receptor Kristina A. Ganzinger (Martinsried, GER)	n by the T-cell
40.05	Lunch Visit of the Industrial Exhibition Foyer	
12:25	Lunch Visit of the Industrial Exhibition	Foyer
13:15	Lunch Visit of the Industrial Exhibition Lunchsymposium OLYMPUS DEUTSCHLAND GmbH	Room HS 3C
		ŕ
	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus	ŕ
13:15	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus Jens Henning Fischer (Hamburg, GER)	Room HS 3C
13:15	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus Jens Henning Fischer (Hamburg, GER) Plenary Session 3	Room HS 3C
13:15	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus Jens Henning Fischer (Hamburg, GER) Plenary Session 3 Chair: Christian Herrmann (Bochum, GER) I-06. Multi-color single-molecule FRET measurements investigate kinetics of multi-protein interactions in molecular machines	Room HS 3C Room HS 3D the real-time
14:00	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus Jens Henning Fischer (Hamburg, GER) Plenary Session 3 Chair: Christian Herrmann (Bochum, GER) I-06. Multi-color single-molecule FRET measurements investigate kinetics of multi-protein interactions in molecular machines Thorsten Hugel (Freiburg, GER) I-07. Phase separation and mesoscale assembly for functional comzation	Room HS 3C Room HS 3D the real-time
13:15 14:00 14:45	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus Jens Henning Fischer (Hamburg, GER) Plenary Session 3 Chair: Christian Herrmann (Bochum, GER) I-06. Multi-color single-molecule FRET measurements investigate kinetics of multi-protein interactions in molecular machines Thorsten Hugel (Freiburg, GER) I-07. Phase separation and mesoscale assembly for functional comzation Tanja Mittag (Memphis, USA)	Room HS 3D the real-time partmentali-
13:15 14:00 14:45	Lunchsymposium OLYMPUS DEUTSCHLAND GmbH Latest Innovations in Fluorescence Microscopy from Olympus Jens Henning Fischer (Hamburg, GER) Plenary Session 3 Chair: Christian Herrmann (Bochum, GER) I-06. Multi-color single-molecule FRET measurements investigate kinetics of multi-protein interactions in molecular machines Thorsten Hugel (Freiburg, GER) I-07. Phase separation and mesoscale assembly for functional comzation Tanja Mittag (Memphis, USA) Parallel-Session 2a - Biophysics of Chromphores	Room HS 3D the real-time npartmentali-

16:15	T-13. In silico screening for a bright circular permutation of red flu protein Junyi Liang (Baltimore, USA)	orescent
15:35	Parallel-Session 2b - Tools for Cell Biophysics	Room HS 3C
	Chair: Kristina A. Ganzinger (Martinsried, GER)	
15:35	T-14. DNA swelling as driving force of complex cellular functions Sebastian Kruss (Göttingen, GER)	
16:00	T-15. Identifying benchmarks in hematopoietic stem cell adhesion for nanometric variation of chemokine spacing versus synthetic ag Cornelia Monzel (Düsseldorf, GER)	
16:15	T-16. Investigation of the kinetochore assembly by aberration-free quantitative multi-color single-molecule localization microscopy in Ilijana Vojnovic (Marburg, GER)	

16:30	Coffee Break Visit of the Industrial Exhibition	Foyer
17:10	Parallel-Session 3a - Integrative Analysis of the Structure & Dynamics of Proteins	Room HS 3D
	Chair: Don Lamb (München, GER)	
17:10	T-17. An integrative approach maps motions and conformers necessary for oligomerization of the large GTPase hGBP1 Thomas-Otavio Peulen (Düsseldorf, GER)	
17:35	T-18. Molecular mechanisms in GTPase and ATPase proteins elucidated via experimental and theoretical FTIR and NMR spectroscopy, biomolecular simulations and CryoEM Daniel Mann (Sheffield, GBR)	
17:50	T-19. Biomolecular simulations for structural biology: integrating co-evolution, SAXS, FRET at al. Alexander Schug (lülich, GER)	
18:05	T-20. Proton transfer across the protein fold is coupled to redox changes at the catalytic metal center of hydrogen-producing enzymes Sven Timo Stripp (Berlin, GER)	
18:20	T-21. The amphipathic helix of Opi1 is fine-tuned to sense phosphatidic acid lipids in cellular membranes Roberto Covino (Frankfurt am Main, GER)	
17:10	Parallel-Session 3b - Transporters and Channels	Room HS 3C
	Chair: Birgit Strodel (Jülich, GER)	
17:10	T-22. Maintenance of bacterial outer membrane lipid asymmetry: Insights from molecular simulations Ulrich Kleinekathöfer (Bremen, GER)	
17:35	T-23. Structural basis of membrane protein insertion via SecYEG tr Alexej Kedrov (Düsseldorf, GER)	anslocon

Scientific Program Tuesday | September 18, 2018

17:50	T-24. Atomistic mechanism of alternating access in a heterodimeri exporter Lars Schäfer (Bochum, GER)	c ABC
18:05	T-25. Protein-induced spontaneous membrane curvature Christoph Kluge (Erlangen, GER)	
18:20	T-26. Site-specific ion occupation in the selectivity filter causes vol dependent gating in a viral K+ channel Indra Schroeder (Darmstadt, GER)	tage-
18:45	Poster Session 1	Foyer

Tuesday | September 18, 2018

08:30	Plenary Session 4	Room HS 3D
	Chair: Markus Gerhards (Kaiserslautern, GER)	
08:30	I-08. Active cell mechanics Ulrich Schwarz (Heidelberg, GER)	
09:00	I-09. Complex dynamics and dynamic complexes: NMR studies of I dynamics and their role in protein function Martin Blackledge (Grenoble, FRA)	arge scale
09:30	I-10. Water in biology Martina Havenith (Bochum, GER)	
10:00	I-11. The molecular basis of Alzheimer's plaques: a near-atomic restructure of amyloid A β (1–42) fibrils	solution

Coffee Break | Visit of the Industrial Exhibition

11:00	Parallel-Session 4a - Biomolecular Dynamics	Room HS 3D
	Chair: Dina Grohmann (Regensburg, GER)	
11:00	T-50. New insights into molecular membrane dynamics from super microscopy Christian Eggeling (Jena, GER)	r-resolution
11:25	T-28. Mapping vibrational energy transfer in peptides and proteins non-canonical amino acids and ultrafast infrared spectroscopy Erhan Deniz (Frankfurt am Main, GER)	with
11:40	T-29. The mRNA 5'-untranslated region determines the helicase ac eukaryotic translation initiation factor eIF4A by modulating its con cycle Dagmar Klostermeier (Münster, GER)	
11:55	T-30. High bandwidth sensing of single proteins with nanopores Sonja Schmid (Delft, GER)	
12:10	T-31. Automated correlation-based structure refinement for high-r cryo-EM maps of large biomolecular complexes Maxim Igaev (Göttingen, GER)	esolution

11:00	Parallel-Session 4b - Protein Assemblies and Aggregates-1	Room HS 3C
	Chair: Peter Hildebrand (Leipzig, GER)	
11:00	T-32. Relation between metastable oligomers and amyloid fibrils revealed by simultaneous analysis of their assembly kinetics Wolfgang Hoyer (Düsseldorf, GER)	
11:25	T-33. The auto-catalytic secondary nucleation of amyloid fibrils Alexander Buell (Düsseldorf, GER)	
11:40	T-34. Are gluten-related disorders a new protein aggregation disease? A biophysical approach to reveal the early stages of disease Veronica Dodero (Bielefeld, GER)	
11:55	T-35. Multi-angle static and dynamic light scattering as a new in s investigate the self-assembly of proteins Klaus Huber (Paderborn, GER)	itu tool to
12:10	T-36. From protein phase behavior to protein-protein interactions the second virial coefficient Florian Platten (Düsseldorf, GER)	quantified by
12:25	Lunch Visit of the Industrial Exhibition	Foyer
13:15	Poster Session 2	Foyer
15:15	Parallel-Session 5a - Biomolecular Assemblies	Room HS 3D
	Chair: Philipp Neudecker (Jülich, GER)	
15:15	T-37. Studying the solution structure and function of the Yersinia ty tor YopO using an integrative structural biology approach Gregor Hagelueken (Germany, GER)	ype-III-effec-
15:40	T-38. Molecular strain links to Mg2+ dependent kinetic heterogene Il intron tertiary contact Richard Börner (Zürich, CHE)	eity in a group
15:55	T-39. RNA processing and activation of type IIIA CRISPR-Cas system Brighton Samatanga (Leipzig, GER)	ms
16:10	T-40. RNA as a complex polymer with coupled dynamics of ions at the outer solvation sphere.	nd water in
	Heiko Lammert (Houston, TX, USA)	

Foyer

15:15	Parallel-Session 5b - Protein Assemblies and Aggregates-2	Room HS 3C
	Chair: Klaus Gerwert (Bochum, GER)	
15:15	T-42. Immuno-IR-Sensor identifies preclinical Alzheimer's in blood Klaus Gerwert (Bochum , GER)	1
15:40	T-43. Single amyloid fibrils studied in a thermophoretic trap Tobias Thalheim (Leipzig, GER)	
15:55	T-44. Fluid biomolecular condensates, their interaction with membranes and how they influence formation of autophagosomes Roland L. Knorr (Potsdam, GER)	
16:10	T-45. Transition networks for describing the disease related protein Bogdan Barz (Düsseldorf, GER)	in aggregation
16:25	T-46. Predicting the structure of the γ-secretase – C99 complex Manuel Hitzenberger (Garching bei München, GER)	
16:45	Short Break	Foyer
16:50	Young Investigator Award	Room HS 3D
	Chair: Hajo Galla (Münster, GER)	
16:55	I-12. Gaining traction: Towards understanding the micromechanics of bacterial life Benedikt Sabass (lülich, GER)	
17:15	I-13. In-situ investigation of outer membrane proteins in E. coli and native membranes using dipolar EPR spectroscopy Benesh Josef (Frankfurt am Main, GER)	
17:35	Short Break	Foyer
17:45	DGfB Meetings of the Sections: (I)-Molecular Biophysics, (II)-Membranes, Cell and Networks, (III)-Medical Biophysics	Room HS 3D
17:45		Room HS 3D
	(II)-Membranes, Cell and Networks, (III)-Medical Biophysics	

Wednesday | September 19, 2018

08:30	Plenary Session 6	Room HS 3D
	Chair: Helmut Grubmüller (Göttingen, GER)	
08:30	I-14. Shedding light on the molecular mechanisms of neuronal exocytosis: the primed SNARE-complexin-synaptotagmin complex Axel Brunger (Stanford, USA)	
09:20	I-15. Structural basis for ligand recognition and signal transduction Beili Wu (Shanghai, CHN)	n of GPCRs

10:15 Coffee Break | Visit of the Industrial Exhibition

Marina S. Dietz (Frankfurt am Main, GER)

Niels de Jonge (Saarbrücken, GER)

Foyer

10:50	Parallel-Session 6a - Structure, Dynamics, Function of Proteins-1	Room HS 3D
	Chair: Bern König (Jülich, GER)	
10:50	T-47. The structure and dynamics of mutated amyloid β Fibrils Daniel Huster (Leipzig, GER)	
11:15	T-48. Cell free protein synthesis systems and single molecule fluor studies: A perfect marriage Jörg Fitter (Aachen, GER)	rescence
11:30	T-49. Light response of receptors within intact cells resolved by inspectroscopy Tilman Kottke (Bielefeld, GER)	frared
10:50	Parallel-Session 6b - Membranes-1	Room HS 3C
	Chair: Gregor Hagelueken (Bonn, GER)	
10:50	T-27. Dissecting nanosecond dynamics in membrane proteins with relaxation upon tryptophan photoexcitation Sandro Keller (Kaiserslautern, GER)	dipolar

T-51. A receptor tyrosine kinase study at the single-molecule level

cancer cells using liquid-phase electron microscopy

T-52. Studying membrane proteins and drug responses in individual breast

11:50	Parallel-Session 7a - Structure, Dynamics, Function of Proteins-2	Room HS 3D
	Chair: Dagmar Klostermeier (Münster, GER)	
11:50	T-53. A new paradigm for biomolecular interactions: ultrahigh-aff of two intrinsically disordered proteins involved in chromatin rem Alessandro Borgia (Zürich, CHE)	
12:15	T-54. Dissecting two differential binding mechanisms of FG-nucleoporins and nuclear transport receptors Piau Siong Tan (Heidelberg, GER)	
12:30	T-55. Dynamic and structural properties of polyglutamine Michael Schleeger (Halle (Saale), GER)	
11:50	Parallel-Session 7b - Membranes-2	Room HS 3C
	Chair: Karin Hauser (Konstanz, GER)	
11:50	T-56. The membrane activity of the fungal peptide toxin Candidaly insights into the pathogenicity mechanism of the clinically relevant albicans Christian Nehls (Borstel, GER)	
12:15	T-57. Influenza A matrix protein (M1) multimerization is the main of for membrane bending and tubulation. Ismail Dahmani (Potsdam, GER)	Iriving force
12:30	T-58. DNA-encircled lipid bilayer: a novel nano-scaled membrane system Karim Fahmy (Dresden, GER)	-mimetic
12:50	Awards and Closing Remarks	Room HS 3D
	Chair: Claudia Steinem (Göttingen, GER)	

Satellite Workshop on Advanced Fluorescence Spectroscopy and Imaging

The workshop program is based on a bottom-up approach considering the wishes of the attendees. We want to promote the dissemination of theory, joint procedures and tools for quantitative fluorescence measurements and planning of community-driven experimental challenges. Guests are welcome (T. Craggs, T. Hugel, D. Lamb, J. Michaelis, C. Seidel)

14:00-16:00	Plenary Session 1: Quantitative FRET studies Room HS in life sciences			Room HS 3D
	Welcome			
	FRET Theory (J. Hendrix)			
	Intensity-based FRET st (T. Craggs)	udies		
	Lifetime-based FRET stu (C. Seidel)	udies from s	ingle-molecul	es to live cells
16:00-16:30	Transfer to building 26.	41. Coffee b	reak in 26.41	
16:30-17:30	Quant. FRET studies (T	IRF)	Quant. FRE	T studies (Confocal)
		Room HS 6H		Room HS 6G
			se study with principal eam Confocal)	
17:30-19:00	Beginners in Fl (BiFl)-1	Advanced in Fl (AiFl)-1		Experts in FI (EiFI)-1
	Room HS 6H	R.26.42	2.02 (23,26,28)+	R. 26.32.02.25
	Combining imaging and spectroscopy (Budde, Jelzow, Koberling, Weber)	Software presentation and forum: TIRF and Confocal (team TIRF, team Confocal)		Principles of FRET-restrained structural modeling (team S+M)
19:00	Departure to the Restaurant " Schalander " in Düsseldorf-Wersten, Kölner Landstraße 247			
19:45-23:00	Workshop dinner and further discussions			

09:00-09:50	Dynamic FRET Measur (TIRF)	ements	Dynamic Fi (Confocal)	RET Measurements
		Room HS 5E		Room HS 6G
	Detailed case study with workflow (HMM and mo TIRF)		(Dynamic sh	se study with workflow nift in MFD, seTCSPC, FCS) (team Confocal)
9:50-10:15	Coffee break in 26.41			
10:15-11:00	Beginners in Fl (BiFl)-2 Room HS 6H	Advanced (AiFI)-2 Room 26.42	in Fl .02 (23,26,28)+	Experts in FI (EiFI)-2 Room 26.32.02.25
	Selecting dyes and la- beling of biomolecules for fluorescence spec- troscopy (P. Didier)	and forum	presentation n: TIRF and team TIRF, focal)	Principles of FRET-restrained structural modeling (team S+M)
11:00-12:00	Advanced FCS techniq	ues		
	(F. Koberling, S. Felekyan)			
12:00-13:00	Lunch in Mensa			
14:00-16:00	Plenary Session 2: Add fluorescence	ditional dim	ensions of	Room HS 6G
13:00-13:45	Polarization resolved flu order parameters and lo (R. Kühnemuth, J. Kubiak)			determine shape,
13:45-14:20	Beyond single-pair FRE (D. Lamb)	T studies		
14:20-15:00	Summarizing Reports of workgroups and forums: (a) Determination of absolute FRET efficiencies, (b) Analysis of dynamic exchange with FRET studies, (c) Software forums, (d) Integrative structural modelling. Conclusions and outlook			
+ additional rooms will be available 26.42.03 (10, 11), 26.43.02.24,				

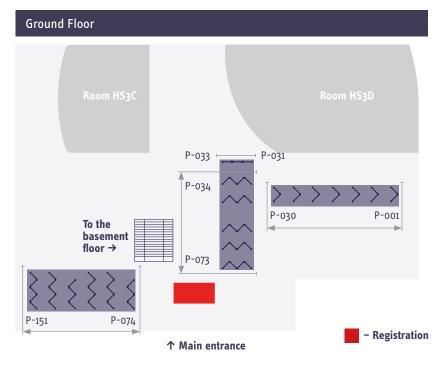
Sometimes diversity makes the difference.

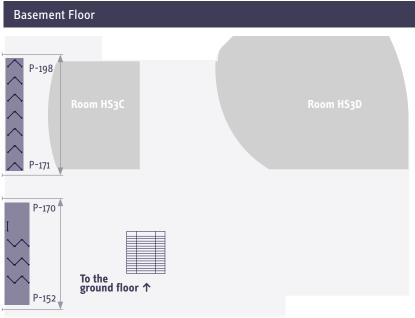


Because details matter.



Poster Plan Poster





Poster Session

The poster sessions at which each presenter must be available for discussion are scheduled as follows:

Monday | September 17, 2018

Poster session 1 18:45-20:45

Tuesday | September 18, 2018

UV/Vis Spectroscopy

Fabian Kruse (Dresden, GER)

Franziska Pranga-Sellnau (Berlin, GER)

Poster session 2 13:15-15:15

Authors with an EVEN Poster ID must be present during the first hour. Authors with an ODD Poster ID must be present during the second hour.

ODD Poster ID must be present during the second nour.	
	Biomolecules and their assemblies: From structure and dynamics to function
P-001	Nuclear inelastic scattering for identification of iron ligand modes in dinitrosyl iron complexes and nitrogenase single crystals Hendrik Auerbach (Kaiserslautern, GER)
P-002	Role of local membrane protein hydration for the stability of the PIB-type ATPase CopA from Legionella pneumophila Lisa Nucke (Dresden, GER)
P-003	How long-ranged are collective motions between biomolecules? Christopher Päslack (Bochum, GER)
P-004	Antigen processing at the atomic level: MD simulations of MHC-I and its peptide-loading complex Olivier Fisette (Bochum, GER)
P-005	Structural biology of functional amyloids forming biofilms Umit Akbey (Jülich, GER)
P-006	A novel setup for time-resolved IR spectroscopy on Cytochrome c Oxidase Pit Langner (Berlin, GER)
P-007	Pore-spanning membranes: a tool to study single vesicle content release in SNARE-mediated membrane fusion Peter Mühlenbrock (Göttingen, GER)
P-008	Optimizing crystal size of photosystem II by macroseeding: Toward neutron protein crystallography Rana Ali (Berlin, GER)

Investigations on microbial channelrhodopsins studied by time-resolved FT-IR an

Investigating proton transfer with SERRS and electrophilic addition of iso-cyanates in the catalytic centre of cytochrome c oxidase

	Biomolecules and their assemblies: From structure and dynamics to function
P-011	Electrostatic pKa calculations of the tetrapyrrole chromophore in phytochromes Ronald Gonzalez (Berlin, GER)
P-012	Salt-induced assembly of fibrinogen into nanofibrous scaffolds Dorothea Brüggemann (Bremen, GER)
P-014	Insights into the secondary nucleation of Alpha-Synuclein Alessia Peduzzo (Düsseldorf, GER)
P-015	Conformational and protonation dynamics at the surface of phytochromes Maryam Sadeghi (Berlin, GER)
P-016	Human Argonaute 2 in action: Mechanistic insights into the key player of RNA interference by SLAM-FRET Sarah Willkomm (Regensburg, GER)
P-017	Cell free expression to investigate site-specific dynamics of GPCR Ulrike Krug (Leipzig, GER)
P-018	Force-dependency of Cas9 target recognition investigated with a DNA origami-based nanoscopic force clamp Leonhard Jakob (Regensburg, GER)
P-019	Deciphering the functional composition of fusogenic liposomes Rejhana Kolasinac (Jülich, GER)
P-020	Mechanism of the intrinsic arginine finger in heterotrimeric G proteins Carsten Kötting (Bochum, GER)
P-022	Influence of the splicing variants $\Delta Exon3$ and $\Delta Exon5$ on $\alpha\text{-synuclein}$ aggregation Christian Scheibe (Konstanz, GER)
P-023	Towards the structure of TRAP transporters with an integrative approach of crystallography and PELDOR Martin Peter (Bonn, GER)
P-024	Characterization of quinoxalinedione antagonist binding to the glutamate receptor LBD using a fluorescence quenching assay Adela Dudic (Bochum, GER)
P-025	Investigation on the dynamics of single domain transmembrane helices via various methods of solid state NMR Hannes Heinel (Leipzig, GER)
P-026	The SAM domain of the murine protein SLY1 dimerizes through a novel SAM domain dimer interface Laura Katharina Kukuk (Jülich, GER)

P-027	Allosteric activation of GDP-bound ras isoforms by bisphenol derivative plasticisers Raphael Stoll (Bochum, GER)
P-028	Probing conformational changes in the GluK2 ligand-binding domain using fluorescence spectroscopy Felix Borowski (Bochum, GER)
P-029	Single-shot submicrosecond infrared spectroscopy on proteins with quantum cascade lasers Jessica Laura Klocke (Bielefeld, GER)
P-030	Analyzing molecular interactions of the tumor suppressor protein p53 with the biopolymer poly(ADP-ribose) by ATR-FTIR spectroscopy Annika Krüger (Konstanz, GER)
P-031	Late-endosomal SNAREs – Towards the characterization and establishment of a novel SNARE-family Stefan Krüger (Göttingen, GER)
P-032	Towards understanding the mechanism of decatenation by topoisomerase IV Jana Hirsch (Münster, GER)
P-033	Structural identification of a novel interprotomer binding pocket in the capsid of enteroviruses preventing conformational change James Alexander Geraets (Helsinki, FIN)
P-034	Structural basis of inward rectification in K+ channels Gerhard Thiel; Julian Stahl (Darmstadt, GER)
P-035	ATR-IR-spectroscopy for conformational activity screening in drug discovery – a study on HSP90 Jörn Güldenhaupt (Bochum, GER)
P-035 P-036	- a study on HSP90
	- a study on HSP90 Jörn Güldenhaupt (Bochum, GER) Exploring the reductive phase of Cytochrome c Oxidase: assignment of heme's redox states and relative structure changes through potential-resolved FTIR
P-036	- a study on HSP90 Jörn Güldenhaupt (Bochum, GER) Exploring the reductive phase of Cytochrome c Oxidase: assignment of heme's redox states and relative structure changes through potential-resolved FTIR Federico Baserga (Berlin, GER) Structure of the bifunctional secretin PilQ from T. thermophilus
P-036 P-037	- a study on HSP90 Jörn Güldenhaupt (Bochum, GER) Exploring the reductive phase of Cytochrome c Oxidase: assignment of heme's redox states and relative structure changes through potential-resolved FTIR Federico Baserga (Berlin, GER) Structure of the bifunctional secretin PilQ from T. thermophilus Edoardo D'Imprima (Frankfurt am Main, GER) A unifying photo-cycle model for Channelrhodopsin-2
P-036 P-037 P-038	- a study on HSP90 Jörn Güldenhaupt (Bochum, GER) Exploring the reductive phase of Cytochrome c Oxidase: assignment of heme's redox states and relative structure changes through potential-resolved FTIR Federico Baserga (Berlin, GER) Structure of the bifunctional secretin PilQ from T. thermophilus Edoardo D'Imprima (Frankfurt am Main, GER) A unifying photo-cycle model for Channelrhodopsin-2 Max Dreier (Bochum, GER) The number of SNARE complexes changing conformation during vesicle fusion
P-036 P-037 P-038 P-039	- a study on HSP90 Jörn Güldenhaupt (Bochum, GER) Exploring the reductive phase of Cytochrome c Oxidase: assignment of heme's redox states and relative structure changes through potential-resolved FTIR Federico Baserga (Berlin, GER) Structure of the bifunctional secretin PilQ from T. thermophilus Edoardo D'Imprima (Frankfurt am Main, GER) A unifying photo-cycle model for Channelrhodopsin-2 Max Dreier (Bochum, GER) The number of SNARE complexes changing conformation during vesicle fusion Ying Zhao (Göttingen, GER) SNARE mediated fusion pore - mechanism and nature.

	Biomolecules and their assemblies: From structure and dynamics to function
P-042	Accurate determination of the RNA three-way junctions via single-molecule high-precision FRET measurements Olga Doroshenko (Düsseldorf, GER)
P-043	$\beta\text{-Wrapin}$ AS69 achieves substoichiometric inhibition of $\alpha\text{-synuclein}$ amyloid formation by interference with nucleation processes Laetitia Heid (Düsseldorf, GER)
P-044	Using a combination of different labeling techniques to investigate the ras dimer interface via electron spin resonance spectroscopy and FRET-experiments Christian Teuber (Bochum, GER)
P-045	Multiple co-existing structures of an RNA four-way junction resolved by FRET, SAXS, and integrative modeling Christian A. Hanke (Düsseldorf, GER)
P-046	Conformational study of NpSRII/NpHtrII in different lipid nanoparticles using DEER and Rotamer Analysis Alexandr Colbasevici (Osnabrück, GER)
P-047	Integrative single-molecule FRET analysis of multistate conformational dynamics Oleg Opanasyuk (Düsseldorf, GER)
P-048	Disulfide bond formation between two amyloidogenic regions of islet-amyloid polypeptide inhibits amyloid fibril formation Tatsiana Kupreichyk (Jülich, GER)
P-049	Accuracy in FRET measurements concerning technical and methodical aspects Julian Folz (Düsseldorf, GER)
P-050	Mobility-based quantification of virus-lipid interactions Stephan Block (Berlin, GER)
P-051	Anisotropic metal growth on phospholipid nanodiscs via lipid bilayer expansion Jana Oertel (Dresden, GER)
P-052	Microviscosity of bacterial biofilm matrix characterized by fluorescence correlation spectroscopy and single particle tracking Valentin Dunsing (Potsdam, GER)
P-053	Conformational changes of channelrhodopsin-2 investigated by time-resolved EPR spectroscopy Magdalena Schumacher (Osnabrück, GER)
P-054	Influence of aggregation partners on the secondary structure of peptides Kirsten Schwing (Kaiserslautern, GER)
P-055	Microfluidic diffusional sizing enables characterisation of Protein-Protein interactions under native conditions Maren Butz; Maya Wright (Cambridge, GBR)

P-056	The Deutsche Forschungsgemeinschaft at a glance-research funding opportunities Wolfgang Wachter (Bonn, GER)
P-057	High precision FRET studies reveal reversible transitions in nucleosomes on the microsecond to minute time scale Ralf Kühnemuth (Düsseldorf, GER)
P-058	Thermodynamic analysis of the hydration layers of bio-active molecules and proteins Oktavian Krenczyk (Bochum, GER)
P-059	Time-resolved IR spectroscopic studies of Channelrhodopsin-1 and cysteine variants Raiza Maia (Berlin, GER)
P-060	Kinetic and thermodynamic aspects of fibrils elongation Nicola Vettore (Düsseldorf, GER)
P-061	Impact of co-solutes on the interaction of the intrinsically disordered transcription factor c-Myb and its interaction partner CBP Jan Schnatwinkel (Bochum, GER)
P-062	The impact of macromolecular crowding on translational mobility and conformational properties of proteins Alyazan Albarghash (Aachen, GER)
P-063	An improved two-color coincidence detection for quantifying the interlinkage of macromolecular components at single molecule level Henning Höfig (Aachen, GER)
P-063	macromolecular components at single molecule level
	macromolecular components at single molecule level Henning Höfig (Aachen, GER) Interaction network of apoptotic Bcl-2 proteins addressed by EPR and ODNP techniques
P-064	macromolecular components at single molecule level Henning Höfig (Aachen, GER) Interaction network of apoptotic Bcl-2 proteins addressed by EPR and ODNP techniques Svetlana Kucher (Bochum, GER) Picosecond pulses with wavelength freedom from UV to nIR
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	Biomolecules and their assemblies: From structure and dynamics to function
P-070	Azidohomoalanine as site-specific probe for steady state and 2D-IR spectroscopy on an allosteric protein Katharina B. Eberl (Frankfurt am Main, GER)
P-071	Diffusion dynamics, activation, and cross-interaction of receptor tyrosine kinases studied by single-particle tracking Marie-Lena I.E. Harwardt (Frankfurt am Main, GER)
P-072	EPR spectroscopy for the analysis of protein-protein interaction in highly concentrated liquid protein solutions Jacob Blaffert (Halle (Saale), GER)
P-073	Role of force for the self-assembly of myosin II minifilaments Justin Grewe (Heidelberg, GER)
P-074	Electron cryo-microscopy structure of the canonical TRPC4 ion channel reveals the binding site for its regulatory proteins Barathy Vinayagam (Düsseldorf, GER)
P-075	Biomolecular dynamics studied by time-resolved IR-spectroscopy and laser- excited perturbation techniques Karin Hauser (Konstanz, GER)
P-076	Structure-function relationship of RHO kinase I Soheila Rezaei Adariani (Düssedorf, GER)
P-077	Micro- and nanostructured surface architectures for label-free spectroscopic and microscopic protein sensing Julia Flesch (Osnabrück, GER)
P-078	Integrated NMR, Fluorescence and MD Benchmark Study of Protein Mechanics and Hydrodynamics Jakub Kubiak (Düsseldorf, GER)
P-079	Collective force generation by elastically coupled molecular motors Mehmet Can Ucar (Potsdam, GER)
P-080	Multi-species diffusion studies in membranes utilizing scanning FCS and super-resolution microscopy Maria Loidolt-Krüger (Berlin, GER)
P-082	Comprehensive biophysical assays: From single channel electrophysiology to overall cell behavior Conrad Weichbrodt (München, GER)

	Cell biophysics meets systems and synthetic biology
P-083	Connexin 43 as a model to mimic cell-to-cell communication in minimal cell compartments (MCCs) Yeimar Portillo (Göttingen, GER)
P-084	Structure and mechanics of the membrane-bound intermediate filaments Sarmini Nageswaran (Göttingen, GER)
P-085	Synthetic cells, a reductionists approach: Reconstitution of an ATP synthase in giant unilamellar vesicles by droplet based microfluidics Kristina Kramer (Göttingen, GER)
P-086	Investing the organization of minimal actin cortices and their impact on pore-spanning lipid membrane tension by means of AFM - CLSM correlation Nils Liebe (Göttingen, GER)
P-087	Cytoskeletal and membrane reorganization during NET formation Elsa Neubert (Göttingen, GER)
P-088	Effect of substrate elasticity on neutrophil extracellular trap formation Gökhan Günay (Göttingen, GER)
P-089	Spontaneous shear flow in confined cellular nematics. Carles Blanch-Mercader (Genève, CHE)
P-090	A model system for cellular adhesion based on microstructured substrates Jonathan F. E. Bodenschatz (Göttingen, GER)
P-090	
P-090 P-091	Jonathan F. É. Bodenschatz (Göttingen, GER)
	Jonathan F. É. Bodenschatz (Göttingen, GER) Computational biophysics Is ATC hydrolysis the power stroke of ABC tranporters?
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	Computational biophysics
P-097	Modulation of TRPV1 heat activation mechanism by the lipid membrane Anna Bochicchio (Erlangen, GER)
P-098	Dynamic hydrogen-bond networks of channelrhodopsin variants Michail Lazaratos (Berlin, GER)
P-099	Computational simulations of zinc binding to the dimeric human voltage-gated proton channel Christophe Jardin (Nürnberg, GER)
P-100	Reliable state identification and state transition detection of fluorescence intensity-based smFRET data Richard Börner (Zürich, CHE)
P-101	Probing fosfomycin permeation across the E. coli outer membrane Vinaya Kumar Golla (Bremen, GER)
P-102	An amphipathic lipid packing sensor motif in Piccolino makes the protein a possible candidate for a synaptic vesicle tether Sonja A. Kirsch (Erlangen, GER)
P-103	Understanding the structure and function of DcaP channel from Acinetobacter baumannii using the MD simulations Jigneshkumar Dahyabhai Prajapati (Bremen, GER)
P-104	The study of proton transfer in photosystem II Krzysztof Buzar (Berlin, GER)
P-105	Precise time super-resolution by event correlation microscopy Qinghua Fang (Göttingen, GER)
P-106	Open boundary simulations of low-resolution membrane protein models Thomas Tarenzi (Nicosia, CYP)
P-107	Automated and optimally FRET-assisted structural modeling Mykola Dimura (Düsseldorf, GER)
P-108	Vibrational energy exchange reveals important protein's function signatures Luca Maggi (Jülich, GER)
P-109	How sugars can taste bitter: Insight from multiscale simulations Mercedes Alfonso-Prieto (Jülich, GER)
P-110	Using DOPE inverted hexagonal phase to compare two force decompositions Otto Schullian (Potsdam, GER)
P-111	Protein-lipid-ion interactions define conduction properties of TMEM16 lipid scramblases Andrei Kostritskii (Jülich, GER)
P-111	scramblases

P-112	Simulation of cellular adhesion Filip Savic (Göttingen, GER)
P-113	Modeling of multiprotein complex formation Stefanie Förste (Potsdam, GER)
P-114	Conformational dynamics and membrane binding of the guanlyate binding protein mGBP2 Jennifer Loschwitz; Xue Wang (Jülich, GER)
P-115	Replica-exchange simulation of T72/S111-phosphorylated Rab8a GTPase indicates stabilization of the active form Danial P. Dehkordi (München, GER)
P-116	Role of physiological environments in the folding mechanism of intrinsically disordered proteins Suman Samantray (Jülich, GER)
P-117	Integrating experiment and simulation: Decoding IR spectra by visualizing molecular details Till Rudack (Bochum, GER)
P-118	Large scale simulations of cell resolved tissue by a cellular Potts model Jakob Rosenbauer (Jülich, GER)
P-119	Precision DEER distance measurements by spin-label ensemble refinement
,	Katrin Reichel (Frankfurt am Main, GER)
,	
P-120	Katrin Reichel (Frankfurt am Main, GER)
	Energy transduction Histidine protonation and its influence on the electronic and vibrational properties of a "Rieske-like" iron-sulfur protein
P-120	Energy transduction Histidine protonation and its influence on the electronic and vibrational properties of a "Rieske-like" iron-sulfur protein Hendrik Auerbach (Kaiserslautern, GER) Residues involved in the protonation of the biliverdin chromophore of Agp2
P-120 P-121	Energy transduction Histidine protonation and its influence on the electronic and vibrational properties of a "Rieske-like" iron-sulfur protein Hendrik Auerbach (Kaiserslautern, GER) Residues involved in the protonation of the biliverdin chromophore of Agp2 Anastasia Kraskov (Berlin, GER) Immobilization of Cytochrome c Oxidase for Spectro-electrochemical investigation
P-120 P-121 P-122	Energy transduction Histidine protonation and its influence on the electronic and vibrational properties of a "Rieske-like" iron-sulfur protein Hendrik Auerbach (Kaiserslautern, GER) Residues involved in the protonation of the biliverdin chromophore of Agp2 Anastasia Kraskov (Berlin, GER) Immobilization of Cytochrome c Oxidase for Spectro-electrochemical investigation Markus Göbel (Dresden, GER) Time-resolved single-frequency infrared-spectroscopy on photosystem ii in H2O and D2O: Tracking protonation dynamics

P-126	Time-resolved IR absorption spectroscopy: tracking photosynthetic water oxidation in Photosystem II Philipp Simon (Berlin, GER)
P-127	Analysis of photoinduced processes of phycoerythrobilin-loaded cyanophage phycobiliprotein lyase Ф CpeT using femtosecond transient absorption spectroscopy Rolf Diller (Kaiserslautern, GER)
P-128	Conservation and variation of electron transfer in the photolyase-cryptochrome protein family Tomáš Kubar (Karlsruhe, GER)
	Imaging molecules of life
P-129	A theoretical framework for spatiotemporal chemical imaging with nanosensors Daniel Meyer (Göttingen, GER)
P-130	Spectroscopic characterization of graphene quantum dots for in vivo applications Christian Wimmenauer (Düsseldorf, GER)
P-131	Quantitative analysis of structural and affinity properties of molecular assemblies in living cells using MFIS-FRET studies with fluorescent proteins Felekyan Suren; Annemarie Greife (Düsseldorf, GER)
P-132	Studying biomolecular systems beyond the diffraction limit with molecular resolution by STED-MFIS microscopy Jan-Hendrik Budde (Düsseldorf, GER)
P-133	Quantitative Ultra-fast FLIM Maria Loidolt-Krüger (Berlin, GER)
P-134	Fast and efficient fluorescence data acquisition for high throughput, kinetics and imaging applications Alessia Quatela (Bensheim, GER)
P-135	Uptake and release of proteins in microgels studied on single particle level Farzaneh Vaghefikia (Aachen, GER)
P-136	Direct characterization of the evanescent field in total internal reflection fluorescence microscopy Christian Niederauer (Martinsried, GER)
P-137	Fast near infrared imaging of dopamine with fluorescent nanosensors Meshkat Dinarvand (Göttingen , GER)
P-138	Localization-based fluorescence correlation spectroscopy with DNA-PAINT Johannes Stein (Martinsried , GER)
P-139	Single-particle tracking based on DNA-PAINT Johannes Stein (Martinsried, GER)

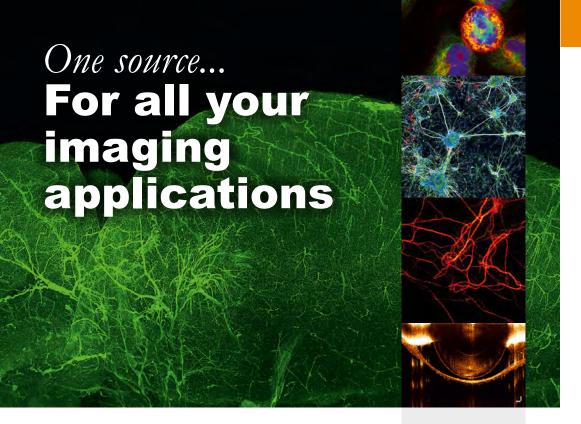
	Multiscale biophysics of membranes and membrane proteins
P-140	Zinc inhibition in the NpHV1 voltage-gated proton channel Gustavo Chaves (Nürnberg, GER)
P-142	Supramolecular assembly of lipid nanodiscs using genetically Engineered MSP1D1 for Membrane Protein Structural Studies Madhumalar Subramanian (Dresden, GER)
P-143	Structural changes of the oxygen-evolving complex towards the O2 formation Mohamed Ibrahim (Berlin, GER)
P-144	Detailed Comparison of H2O2 Production of Human PMN and HL-60 derived Cell Lines. Annika Droste (Nürnberg, GER)
P-145	Spectroscopic investigation of variants of channelrhodopsin-1 from chlamydomonas augustae Maria Walter (Berlin, GER)
P-146	Spectroscopic investigations on the light-driven inward H+ pump xenorhodopsin Luiz Schubert (Berlin, GER)
P-147	Interaction of synthetic polymers with biological nanopores: effects of polymer architecture and monomer size Monasadat Talarimoghari (Freiburg, GER)
P-148	Membrane-conditioned dimerization of G protein coupled receptors as dynamic regulation of receptor function Stefan Gahbauer (Erlangen, GER)
P-149	Reconstitution of Silicanin-1 into artificial lipid membranes and investigation of its self-aggregation behavior Philipp Schwarz (Göttingen, GER)
P-150	Collisional lipid transfer among DIBMA-bounded nanodiscs Bartholomäus Danielczak (Kaiserslautern, GER)
P-151	Role of Coulombic repulsion in collisional lipid transfer among SMA(2:1) nanodiscs Anne Grethen (Kaiserslautern, GER)
P-152	Curvature dependence of SNARE TMD mediated membrane fusion Matthias Pöhnl (Erlangen, GER)
P-153	Intermolecular interactions in the activation of Two Pore Channels Sonja A. Kirsch (Erlangen, GER)
P-154	Phospholipid order, dynamics, and hydration in polymer-bounded nanodiscs Carolyn Vargas (Kaiserslautern, GER)

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Conference Dinner

CONFERENCE DINNER - September 18, 2018 | Tuesday

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The glass-covered inner courtyard of the former Franciscan monastery is the central room of the Maxhaus connecting the levels. Thanks to the steel-glass roof construction at a height of 11.5m, it retains its outdoor character with the changing light moods during the day.

For the evening of the Conference Dinner we welcome you in this special location for a delightful and memorable evening in Düsseldorf. The Conference Dinner will give the chance to mingle with colleagues and friends and enjoy a relaxing evening. The ticket includes entrance and food (buffet). For drinks please pay on site.

Arrival by public transport

From station "Uni Ost/Botanischer Garten": By Metro number U73 (direction "Gerresheim") to station "Benrather Straße". From there you walk 4 min to Maxhaus

- Klosterhaus. You need around 20 minutes.

From station "Uni Nord/Christophstraße": By METRO number U83 (direction "G'heim, Krankenhaus") to station "Benrather Straße". From there you walk 4 min to Maxhaus

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Parking

There are no parking places around the location (resident parking area).

You can park in the "Carlsplatz"-car park or in the "Rheinufertunnel" car park for fee.

Begin: 20:00

Ticket fees: 50.00 € | Participants

40.00 € | Students

Venue: Maxhaus - Klosterhof

Schulstraße 11, 40213 Düsseldorf











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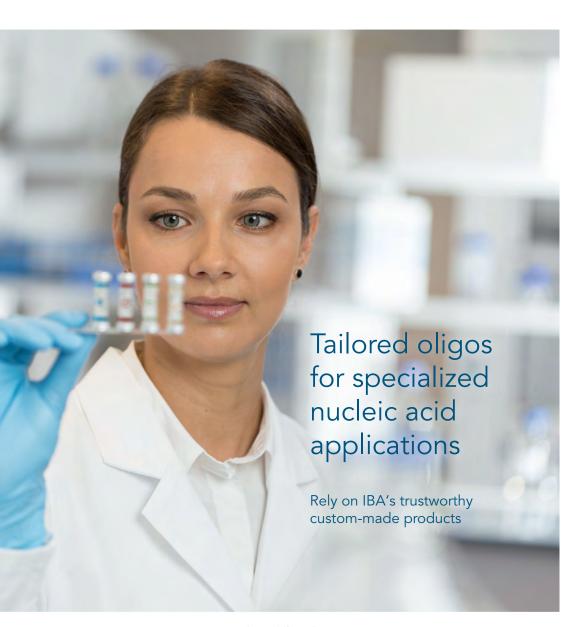
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