

Prof. Dr. Stefan Raunser

PERSONAL INFORMATION

Current Positions: Managing Director, Max Planck Institute of Molecular Physiology, Germany
Adjunct Professor – Technical University Dortmund, Germany
Honorary Professor – University Duisburg-Essen, Germany

Place of birth: Germany

Gender: Male

Work Address: Max Planck Institute of Molecular Physiology
Otto-Hahn-Str. 11, 44227 Dortmund Germany

E-mail address: stefan.raunser@mpi-dortmund.mpg.de

ORCID: 00000-0001-9373-3016

Web site: <https://www.mpi-dortmund.mpg.de/research/departments/structural-biochemistry>

EDUCATION and TRAINING

2001 – 2004 PhD in Biochemistry, University of Frankfurt, Germany, Supervisor: Prof. Dr. Werner Kühlbrandt, Max Planck Institute of Biophysics, Frankfurt, Germany

1995 – 2000 Diploma degree (equivalent to M.Sc.) in Biology, University of Mainz, Germany, Supervisor of diploma thesis: Prof. Dr. H. Paulsen
First German State Examination in Chemistry and Biology, University of Mainz, Germany,

1995 Abitur with specialization in Biology, Chemistry and English

CURRENT POSITIONS

2015 – present Honorary Professor, University of Duisburg-Essen, Germany

2015 – present Adjunct Professor, Technical University Dortmund, Germany

2014 – present Director, Department of Structural Biochemistry, Max Planck Institute of Molecular Physiology, Dortmund, Germany

PREVIOUS POSITIONS/POSTDOCTORAL TRAINING

2014 Full Professor, Department of Chemistry/Biology/Pharmacy, Freie Universität Berlin, Germany

2008 – 2013 Independent Group Leader, Department of Physical Biochemistry, 2003-06, Max Planck Institute of Molecular Physiology, Dortmund, Germany

2005 –2008 Postdoctoral Researcher in the laboratory of Dr. T. Walz, HHMI, Department of Cell Biology, Harvard Medical School, Boston, USA

FELLOWSHIPS AND AWARDS

2022 Member of the North Rhine-Westphalian Academy of Sciences and Arts

2020 ERC Synergy Grant (together with D. Görlich, F. Schnorrer, M. Gautel)

2019 German National Academy of Sciences Leopoldina Member

- 2018 EMBO Member
- 2017 Albert Szent-Gyorgyi Lecture Eötvös Loránd – University Budapest
- 2016 Randall Lecture – King’s College London University
- 2014 ERC Consolidator Grant
- 2013 Einstein-Professorship of the Einstein Foundation Berlin
- 2011 – 2014 Member of the “Junges Kolleg” (Academy of Sciences and Arts of Northrhine-Westfalia)
- 2009 – 2011 Member of the Global Young Faculty; Speaker of the Health group
- 2008 – 2013 Emmy-Noether Fellowship German Research Foundation (DFG)
- 2007 – 2008 Fellow of the German Academy of Sciences “Leopoldina”
- 2005 – 2006 Fellow of Harvard Medical School
- 2001 – 2004 Fellow of the German National Academic Foundation
- 1999 Fellow of the Johannes-Gutenberg University Foundation
- 1998 – 1999 Erasmus Fellow of the European Union
- 1995 Winner of the “Jugend forscht” competition in Palatinate

TEACHING ACTIVITIES - SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- Involvement in the education of biology lab technicians at our institute (since 2011)
- Lecture series and tutorials in “Membrane Biology” in the Master’s program Chemical Biology at TU Dortmund (2010-2014) 45 lecture hrs.
- Lecture series and tutorials in “Structural Biology” in the Master’s program Chemical Biology at TU Dortmund (since 2010) 45 lecture hrs.
- Occasional teaching by invitation for students of PhD programs worldwide
- Teaching for graduate students at the MPI Dortmund
- More than 200 invited lectures and seminars at international meetings or at national or foreign scientific institutions
- Since starting my group in 2008, I have supervised, taught and mentored 21 PhD students until obtainment of PhD degree (with additional 9 currently performing PhD studies in my laboratory). I have also supervised 38 Postdocs (including current group members) and 44 Bachelor and Master students. See complete list below.
- I am a member of the thesis advisory committees of several students of our graduate school

RESEARCH GRANTS

PAST FUNDING

Project Title	Funding source	Amount (Euros)	Period	Role of the PI
RA 1781/1-1 Emmy-Noether-Stipend : Molecular Regulation of cholesterol concentration in cell membranes	German Research Foundation	1,700,000	08/2008 – 07/2013	Sole PI

Starting Grant for Young Investigators	Fonds der chemischen Industrie	50,000	12/2021 - 11/2024	Co-PI
ERC Consolidator Grant 615984: Bacterial Syringes	European Research Council	2,000,000	07/2014 - 06/2019	PI
Research Grant for Young Investigators	Stiftung Mercator	40,000	01/2011 – 12/2014	PI
Research Grant RA1781/2-3: Molecular architecture and Rab interactions of endosomal protein complexes	German Research Foundation	185,000	01/2013 – 12/2015	Co-PI
Exploration Grant : Study of Prokaryotic Hopanoid Transporters	Boehringer-Ingelheim Foundation	80,000	01/2013 – 12/2014	PI
Research Grant : Structural Insights into Muscle Contraction	Behrens-Weise Foundation	150,000	03/2013 – 02/2016	PI
Research Grant RA1781/2-4: Structural analysis of the HOPS and CORVET tethering complexes	German Research Foundation	153,000	01/2016 – 06/2017	Co-PI
RA 1781/4-2: Structure and Function of the Peroxisomal Translocon (PerTrans Consortium FOR 1905)	German Research Foundation	127,400	01/2017 - 12/2019	Co-PI
Collaborative Research Grant 201543/Z/16/Z: An integrated approach to the muscle Z-disc: from atomic structure to human disease	Wellcome Trust	300,000	09/2016 - 08/2021	Co-PI
EUROSTARS E! 13008 – CETflow: A Novel Cryogenic Electron Tomography WorkFlow for Analysis of Biomedical Specimens.	Eurostars	300,000	01/2019 - 06/2021	Co-PI

CURRENT FUNDING

Project Title	Funding source	Amount (Euros)	Period	Role of the PI
Core Funding	Max Planck Society	substantial	until retirement	Sole PI
ERC Synergy Grant 856118: StuDySarcomere	European Research Council	2,500,000	01/2020 - 12/2025	Coordinating PI
RA 1781/5-1: Assembly and structure of native PMCA-neuroplastin/basigin complexes	German Research Foundation	181,750	12/2021 - 11/2024	Co-PI

SFB/Transregio 152: Control of body homeostasis by TRP channel modules	German Research Foundation	371,500	07/2022-06/2026	Co-PI
NW21-062D: Strategic concept for the development of the Network CANcer TARgeting (CANTAR)	Ministerium für Kultur und Wissenschaft NRW, Germany	502,978	08/2022-07/2026	Co-PI

INSTITUTIONAL RESPONSIBILITIES

- 2009 – 2014 Steering Committee of the International Max Planck Research School (graduate school) for Chemical Biology
- since 2014 Member of the Board of Directors – Max Planck Institute of Molecular Physiology
- 2015 – 2019 Steering Committee of the International Max Planck Research School (graduate school) for Chemical and Molecular Biology
- 2015 – 2021 Member of the Perspective Committee of the Biology and Medicine Section of the Max Planck Society
- 2017 – 2018, & since 2024 Managing Director of the Max Planck Institute of Molecular Physiology
- 2020 – 2023 Steering Committee of the International Max Planck Research School (graduate school) for Living Matter
- since 2024 Speaker of the International Max Planck Research School (graduate school) for Living Matter
- since 2021 Advisory Committee of the president of the Max Planck Society on Electronic Data Processing

ORGANISATION OF SCIENTIFIC MEETINGS

- GDCh conference “New Frontiers in Chemical Biology and Biochemistry”, September 30 – October 2, Dortmund, Germany, organizer
- “New Frontiers in Structural Biology”, May 22 – 25 2024, Ringberg castle, Germany, organizer
- 8th Murnau Conference on Structural Biology, October 5-8 2022 (co-organizer with Sebastian Hiller, Oliver Einsle)
- 20th European Workshop on Bacterial Protein Toxins 2021, virtual, organizer
- Erice 2019– “Cryo 3D Electron Microscopy”, May 31 – June 9, Erice, Italy (co-organizer with D. Hanein and S. Ludtke)
- Mosbacher Kolloquium 2019 – Focus Topic: “High-resolution imaging of cells and molecules”, April 4-6, Mosbach/Baden (co-organizer with Stefan Jakobs)
- 7th Murnau Conference on Structural Biology, September 26-29 2018 (co-organizer with Sebastian Hiller, Oliver Einsle)
- Molecular Basis of Life 2017 - International Fall Meeting of the German Society for Biochemistry and Molecular Biology in Bochum, September 24-27 2017 (member of organizing committee)
- International SPHIRE workshops in Dortmund, May 8-10 2017, Bonn, September 11-12 2017, Houston, November 6-8 2017, and Dortmund, June 11-13 2018 (main organizer)
- 6th Murnau Conference on Structural Biology, September 14-17 2016 (co-organizer with Sebastian Hiller, Oliver Einsle)
- International Conference “Structural Biology in the BioEconomy” in Cape Town, South Africa, December 1-4 2012 (co-organizer with Trevor Sewell)
- 1st International Symposium on Equitable Global Health in Bochum, October 7-8 2010 (head of organizing committee)

COMMISSIONS OF TRUST

- Ad hoc reviewer for scientific journals and granting agencies, including among others, Cell, Cell Reports, Nature, Nature Structural and Molecular Biology, Nature Methods, Nature Communications, Elife, PNAS, Science, Science Advances, Structure, ERC, Wellcome Trust, DFG, ANR, NIH, SNCF, BBSRC, MRC, ISF, and others
- Member of Appointment Committees of the Max Planck Institutes of Biochemistry, Biophysics, Terrestrial Microbiology and Biophysical Chemistry
- Member of Appointment Committees at other institutions, in particular Pasteur Institute Paris, University of Halle, University of Würzburg, TU Dortmund, University Basel, University of Okinawa, Universität des Saarlandes
- Speaker of the study group Structural Biology of the GBM (together with S. Hiller und O. Einsle) (2015-2022)
- Member of the Selection Committee of Schmidt Science Fellowships (2020-2022)
- Member of Scientific Advisory Board Leibniz-Institut für Molekulare Pharmakologie (FMP) Berlin (2017-2024)
- Representative of the iNEXT (European infrastructure for NMR, EM and X-rays) user panel (2016-2019)
- Member of the Wellcome Trust Expert Review Group: Molecular Basis of Cell Function (2018-2022)
- Elected Member and since 2023 Chairman of the GDCh (Gesellschaft Deutscher Chemiker) Division Biochemistry (since 2019)
- Member of the LS1 panel, ERC Consolidator Grants (since 2021)
- Member of the EMBO YIP selection committee (2022-2024)
- Member of the selection committee of the Eppendorf Award for Young European Investigators (since 2023)
- Member of the scientific advisory committee of the Dioscuri Centre for Structural Dynamics of Receptors, Poland (since 2024)

MEMBERSHIP OF EDITORIAL BOARDS OF INTERNATIONAL JOURNALS

- Journal of Muscle Research and Cell Motility
- Journal of the International Union of Crystallography (IUCrJ)

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- North Rhine-Westphalian Academy of Sciences and Arts
- Leopoldina, Nationale Akademie der Wissenschaften
- EMBO
- Scientific Member of the Max Planck Society
- German Society for Biochemistry and Molecular Biology (GBM)
- Verein zur Förderung der biomedizinischen und klinischen Forschung e.V.
- German Chemical Society (GDCh)
- Biophysical Society

PATENTS

- WO/2022/184779: Storage system for cryo-ET/ET samples (Raunser, Tacke, Besler)
- WO/2021/156390: Workstation, preparation station and method for manipulating an electron microscopy grid assembly (Raunser, Tacke)
- WO/2021/239979: Device for reducing ice contamination of a sample, focused ion beam milling apparatus and method for focused ion beam milling of a sample (Raunser, Tacke)

TEN REPRESENTATIVE PUBLICATIONS

(Google Scholar November 2024: Total number of publications: 139, total number of citations: 13344, h-index: 59)

Full publication list: see attached file or <https://www.ncbi.nlm.nih.gov/myncbi/1dCBctgOqtT/bibliography/public/>

1. Tamborrini D, Wang Z, Wagner T, Tacke S, Stabrin M, Grange M, Kho AL, Rees M, Bennett P, Gautel M, Raunser S (2023) Structure of the native myosin filament in the relaxed cardiac sarcomere. **Nature**, 623(7988):863-871
2. Wang Z, Grange M, Pospich S, Wagner T, Kho AL, Gautel M, Raunser S (2022) Structures from intact myofibrils reveal mechanism of thin filament regulation through nebulin. **Science**. 375(6582):eabn1934
3. Wang Z, Grange M, Wagner T, Kho AL, Gautel M, Raunser S (2021) The molecular basis for sarcomere organization in vertebrate skeletal muscle. **Cell**. 184(8):2135-2150.
4. Gatsogiannis C, Merino F, Roderer D, Balchin D, Schubert E, Kuhlee A, Hayer-Hartl M, Raunser S (2018) Tc toxin activation requires unfolding and refolding of a β -propeller. **Nature**. 563(7730):209-213
5. von der Ecken J, Heissler SM, Pathan-Chhatbar S, Manstein DJ, Raunser S (2016) Cryo-EM structure of a human cytoplasmic actomyosin complex at near-atomic resolution. **Nature**. 534(7609):724-8.
6. Efremov R, Hofnagel O, Raunser S (2015) Architecture and Conformational Switch Mechanism of the Ryanodine Receptor, **Nature**. 517(7532):39-43.
7. von der Ecken J, Müller M, Lehman W, Manstein DJ, Penczek PA, Raunser S (2015) Structure of the F-actin-tropomyosin complex, **Nature**. 519(7541):114-7.
8. Meusch D, Gatsogiannis C, Efremov R, Lang A, Hofnagel O, Vetter I, Aktories K, Raunser S (2014) Mechanism of Tc toxin action revealed in molecular detail. **Nature**. 508(7494):61-5.
9. Gatsogiannis C, Lang A, Meusch D, Pfaumann V, Hofnagel O, Benz R, Aktories K, Raunser S (2013) A syringe-like injection mechanism in Photorhabdus luminescens toxins. **Nature**. 495(7442): 520-23.
10. Behrmann E, Müller M, Penczek PA, Mannherz HG, Manstein DJ, Raunser S (2012) Structure of the Rigor Actin-Tropomyosin-Myosin Complex. **Cell**. 150(2):327-339.

SELECTION OF INVITED TALKS

I have been invited about 20 times each year. Here, I have listed 10 invited talks in the recent five years (please find a complete list below):

- 2024 Keynote lecture, Biological Cryo Imaging/10th CCP-EM Spring Symposium, Nottingham, UK
Keynote lecture, Myofilament Meeting, Madison, USA
- 2023 Keynote lecture European Workshop on Bacterial Protein Toxins, Crieff, Scotland, UK
Artificial Molecular Switches and Motors GRC, New London, NH, USA
- 2022 Three-dimensional Electron Microscopy GRC, Barcelona, Spain
Cytoskeletal Motors GRC, West Dover, VT, USA
- 2021 Virtual European Muscle Conference
Microscopy Conference 2021 online
- 2020 Lorne conference on protein structure and function, Australia
Asia Pacific Microscopy Conference 12, Hyderabad, India

EXAMPLES OF MAJOR CONTRIBUTIONS TO THE EARLY CAREERS OF EXCELLENT RESEARCHERS

ACADEMIA		
Name	Previous position	Position, Institute
Oleg Sitsel	Postdoc (2018- 2024)	Assistant Professor and head of the Marine Structural Biology Unit, University of Okinawa, Japan (2024)
Alexander Belyy	Postdoc (2018-2023)	Assistant Professor, University of Groningen, The Netherlands (2023)

Michael Grange	Postdoc (2018-2021)	Group leader, Rosalind Franklin Institute, Oxford, UK (2021)
Daniel Roderer	Postdoc (2015-2020)	Group leader, FMP, Berlin, Germany (2021)
Heinz Neumann	Group leader (2016-2020)	Professor, University of Appl. Sciences Darmstadt, Germany (2020)
Christos Gatsogiannis	Postdoc/Project leader (2010-2020)	Full Professor, University Münster, Germany (2020)
Shyamal Mosalaganti	PhD/Postdoc (2009-2015)	Ass. Professor, University of Michigan, USA (2020)
Toshio Moriya	Postdoc (2014-2018)	Professor, KEK, Japan (2018)
Elmar Behrmann	PhD student (2008-2012)	Professor at Universität zu Köln, Germany (2018)
Yan Nie	Postdoc (2013-2015)	Associate Professor, Shanghai Tech University, China (2015)
Rouslan Efremov	Postdoc (2010-2013)	Professor, VUB, Belgium (2014)

INDUSTRY		
Name	Previous position	Position, Institute
Dominic Meusch	PhD/Postdoc (2009-2016)	Director Segment Strategy, ThermoFisher Scientific
Yashar Sadian	PhD (2009-2013)	Global Study Manager, Labcorp Drug Development
Claudia Antoni	PhD (2014-2019)	Scientific Project Manager, innovative Medicines for Tuberculosis
Julian von der Ecken	PhD/Postdoc (2013-2017)	Senior Data Scientist, Point 8
Arne Bothe	PhD (2014-2018)	Director IMP Management, BioNTech SE
Birte Weyers	PhD/Postdoc (2014-2021)	Content Project Manager, Qiagen
Amir Apfelbaum	Postdoc (2014-2019)	Project Leader, Astex Pharmaceuticals
Dennis Quentin	Postdoc (2014-2020)	R&D Manager, ORGENTEC Diagnostika GmbH
Evelyn Schubert	Postdoc (2015-2022)	Software Developer, ParcIT GmbH
Michael Saur	Postdoc (2015-2017)	Team Leader, Astex Pharmaceuticals

COLLABORATIONS

Over the years, I have established numerous collaborations with researchers from Europe and the US, as listed on my publication list. I have been a member of several collaborative research consortia. The most prominent is the ERC Synergy Grant consortium on the functional and structural analysis of sarcomeres consisting of four groups, which I coordinate.

COMPLETE INVITED TALKS

- 2024 57th Winter Seminar, Klosters, Switzerland
 Aminoff Prize Symposium 2024, Stockholm, Sweden
 Invited Seminar at University of Geneva, Switzerland
 Keynote lecture, Biological Cryo Imaging/10th CCP-EM Spring Symposium, Nottingham, UK
 Keynote lecture, Myofilament Meeting, Madison, USA
 Symposium Frontiers in Structural Biology, Schloss Ringberg, Germany
 Invited Seminar at Institut Curie, Paris, France

- Keynote speaker of the Techconference of ThermoFisher in Prague, Czech Republic
 GRC Cardiac Regulatory Mechanisms, New London, NH, USA
 Invited Seminar at King's College London, UK
 Invited Seminar at University of Brazil in Rio de Janeiro, Brazil
 Invited Seminar at Krakow University, Poland
 Outreach Talk at Speed Summit 2024, Dortmund, Germany
 GBM lecture at 8th Murnau Conference on Structural Biology, Germany
 Summer School 2024, Freie Universität Berlin, Germany
 2024 Advances in cryoEM summit, UC Los Angeles, USA
 Invited Seminar, IRTG Retreat University of Osnabrück, Germany
 Opening Symposium: Cryo-EM Facility, University of Freiburg, Germany
- 2023 2023 Advances in cryoEM summit, UC Los Angeles, USA
 Invited Lecture at UC Santa Barbara, USA
 Microbiology Journal Club, Hebrew University Jerusalem, Israel
 Biophysical Society Meeting, San Diego, USA
 Physiology seminar at UPenn, Philadelphia, USA
 Invited seminar at Sloan Kettering Cancer Institute/Rockefeller University, New York, USA
 Inaugural Symposium and Ceremony of the cryoEM center of the University of Münster, Germany
 Artificial Molecular Switches and Motors GRC, New London, USA
 Keynote lecture European Workshop on Bacterial Protein Toxins, Crieff, Scotland, UK
 16th German Peptide Symposium Jena, Germany
 Symposium Frontiers in Bioscience 4, Instituto de Investigación en Biomedicina de Buenos Aires, Argentina
 Cell Symposia: Structural biology from the nanoscale to cellular mesoscale, Huangshan, China
 Invited seminar at University of Warwick, Coventry, UK
- 2022 34. Irseer Naturstofftage, Dechema - online
 Annual Conference of the Association for General and Applied Microbiology (VAAM) 2022, Heinrich Heine Universität Düsseldorf - online
 88th Annual Meeting of the German Society for Experimental and Clinical Pharmacology and Toxicology (DGPT) / 7th German Pharm-Tox Summit - online
 Universität Münster, SFB 1348 Lecture, Germany
 European Cytoskeletal Forum Meeting 2022 Hannover, Germany
 Les Houches Protein Dynamics Conference, Aussois, France
 GRC Three-Dimensional Electron Microscopy, Castelldefels, Spain
 Actin and actin-binding proteins in health and disease, Polish Biochemical Society, Bydgoszcz Poland - online
 GRC Cytoskeletal Motors, Molecular Machines: From Biophysics to Physiology to Disease, West Dover, USA
 Myogenesis Seminar: From forces to structure and treatment, Les Treilles, France
 CCeMMP Online Seminar Series, Monash University, Melbourne, Australia
 9th Electron Tomography Congress, Egmond aan Zee, Netherlands
 49th European Muscle Conference, Prague, Czech Republic
 LMB Seminar Series, MRC Laboratory of Molecular Biology, Cambridge, UK
 Virtual Berkeley Seminar Series, University of California Berkeley, CA, USA
 UCSF Seminar Series, University of California San Francisco, CA, USA

- Stanford Structural Biology Seminar Series, Stanford University, CA, USA
 BzH Lecture Series, University of Heidelberg, Germany
 Annual Retreat of research center TRR 152, Universität des Saarlandes, Homburg, Germany
 Lecture Series, Max Planck Institute of Multidisciplinary Sciences, Göttingen, Germany
- 2021 Biochemistry Seminar Series, University of Bristol, UK - online
 723. WE-Heraeus Seminar, Wilhelm und Else Heraeus Stiftung - online
 Cryo-ET Minisymposium, nanoScience Instruments, USA - online
 2nd Life Science Symposium 2021, Leopoldina - online
 MC – Microscopy Conference 2021 - online
 Virtual European Muscle Conference 2021 - online
 GSM2021 WWU Münster - online
 Cardiovascular Science Conference, UC San Diego - online
 BIO Colloquium, Paul Scherer Institut - online
- 2020 Lorne conference on protein structure and function, Australia
 Asia Pacific Microscopy Conference 12, Hyderabad, India
 Amsterdam Microbiology Seminars, Vrije Universiteit Amsterdam, Netherlands
- 2019 4th German Pharm-Tox Summit, Conventus, Stuttgart, Germany
 SFB-Symposium Tübingen, SFB-Symposium Tübingen, Tübingen, Germany
 JuStruct Einweihung, Forschungszentrum Jülich, Jülich, Germany
 Lecture at National Center for Biotechnology, National Center for Biotechnology, Madrid, Spain
 70. MOSBACHER KOLLOQUIUM, Mosbach, Germany
 Etox Meeting, Davos, CH
 MPI Vbio, Dortmund, Germany
 University of Umeå, Umeå, Sweden
 EMBO workshop: Tools in Structural Biology of Membrane Proteins, Hamburg, Germany
 EMBO Members' Meeting, EMBO, Heidelberg, Germany
 15th German Conference on Cheminformatics, Mainz, Germany
 TUM, TUM, Munich, Germany
 MSG, MSG, Pfalz, Germany
- 2018 CryoEM Symposium, InStem-NBCS Campus, Bangalore, India
 BZ-Kolloquium, Julius-Maximilians-Universität Würzburg, Germany
 Tag der Chemie der Fakultät CCB, TU Dortmund, Germany
 3rd iNEXT Annual Users Meeting, ESRF Grenoble, France
 1st Symposium on Recent Advances in Cryo-EM, CEITEC, Brno, Czech Republic
 Mittwochs-Kolloquium, MPI Tübingen, Germany
 Lecture Institut Curie, Paris, France
 1st biennial International Symposium on Cryo-3D EM, Institut Pasteur, Paris, France
 IBS Symposium and In-depth Evaluation meeting, Korea University, Seoul, South Korea
 2nd International Symposium - Cutting Edge Concepts in Molecular Pharmacology and Toxinology, University of Freiburg, Germany
 Max-Planck-Symposia: Frontiers in Bioscience, Conicet, Buenos Aires, Argentina
 2nd Symposium „Chemistry at the interface of Biology and Medicine“, Universität Leipzig, Kreta, Greece

- Lecture Johannes Gutenberg-Universität Mainz, Germany
 Caesarium Bonn, Germany
 Berlin Life Science Colloquium, Einstein Foundation, Berlin, Germany
 Weekly Seminar, University of Marseille, France
 Lecture Universität Regensburg, Germany
- 2017 52nd Winter Seminar Klosters, Switzerland
 Seminar Series Department of Biochemistry & Molecular Biology, Houston, USA
 61st Meeting Biophysical Society, New Orleans, USA
 Seminar Series Department of Cell and Developmental Biology, Nashville, USA
 Janelia Farm Group Seminar, Janelia Research Campus, Washington, USA
 Seminar for Structural Biology Interest Group, NIH, Washington, USA
 Albert Szent-Györgyi Lecture, Eötvös Loránd University, Budapest, Hungary
 International Symposium "Coupling and Modification of Proteins", Uni Freiburg, SFB 746, Freiburg, Germany
 Annual Conference 2017 Microbiology Society, Edinburgh, Scotland
 Cryo-Electron Microscopy Symposium, Ecole Polytechnique Fédérale (EPFL), Lausanne, Switzerland
 Invited lecture Seminar Series in Structural Biology - Imperial College London, UK
 Invited lecture Seminar Series in Structural Biology - University of Bristol, UK
 Workshop for Phd student – University of Bristol, UK
 3D EM – Gordon Research Conference – Les Diablerets, CH
 ETOX18 - European Workshop on Bacterial Protein Toxins, Institut Pasteur, Paris, France
 Cryo-EM Symposium: European Photon & Neutron Campus, ESRF / EPN, Grenoble, France
 International Cryo-EM Symposium, TU Delft, Delft, Netherlands
 Crick Structural Biology Interest Group External Seminar, Francis Crick Institute, London, GB
 International Minisymposium on "Molecular principles of organelle function and biogenesis", Osnabrück, Germany
 Herbsttagung GBM: Molecular Basis of Life, Bochum, Germany
 46th European Muscle Conference, RUB Bochum, Potsdam, Germany
 CRC 807 Symposium "New Horizons in Membrane Transport and Communication", Goethe Universität Frankfurt, Frankfurt, Germany
 Septin Meeting 2017, Freie Universität Berlin, Berlin, Germany
 SPHIRE Workshop, Houston, USA
 Poppelsdorfer Schlossgespräche, Universität Bonn, Bonn, Germany
 iNext user meeting, iNext, Eilat, Israel
 6th International Conference on Molecular Perspectives on Protein-Protein Interactions, Weizmann Institute of Science, Eilat, Israel
 CNIC Seminar Series, CNIC, Madrid, Spain
 Marthe Vogt Seminar, FMP Berlin, Germany
- 2016 Resolution Revolution in 3D Cryo-Electron Microscopy Workshop, Weizmann Institute of Science, Rehovot, Israel
 Max-Planck/Chile-Symposium, Universidad de Valparaíso, Chile
 Physik Seminarreihe, TU Dortmund, Germany
 3rd Ringberg Workshop on Structural Biology, MPI Heidelberg, Schloss Ringberg, Germany
 60th Annual Biophysical Society Meeting, Biophysical Society, Los Angeles, USA

- 10th Transporter Colloquium, Gesellschaft für Biochemie und Molekularbiologie, Marburg, Germany
 Structural Biology Seminar, Institut Curie, Paris, France
 Seminar series of the Structural Biology Department, Institut Pasteur, Paris, France
 BBB Seminar, University of Bergen, Norway
 ISMB Meeting London, UCL / Birkbeck, London, UK
 Randall Lecture, King's College London, UK
 JBS-Seminar, Jena Bioscience, Jena, Germany
 EM Symposium, Umeå University, Sweden
 Verleihung des Förderpreises für Biomedizin, IfADO - Leibniz Research Centre, Dortmund, Germany
 Ampere Sommerschule Mallorca, Uni Palma de Mallorca, Spain
 Workshop on Scientific Directions for Future Transmission EM, Forschungszentrum Jülich, Germany
 SFB854 Magdeburg, Otto-von-Guericke Universität Magdeburg, Germany
 EMU Welcome Symposium, Universitätsklinikum Essen, Germany
 GBM Bioanalytics Study Group, ISAS Dortmund, Germany
 EMBO Conference Heidelberg, EMBL Heidelberg, Germany
 SFB807 Frankfurt, Goethe Universität Frankfurt, Germany
- 2015 MPI for Terrestrial Microbiology Marburg, Germany
 10th Status Seminar Chemical Biology, Dechema Frankfurt, Germany
 GDCh Kolloquium TU Dortmund, Germany
 Max F. Perutz Laboratories, Vienna, Austria
 Keystone Symposia Conference, Lake Tahoe, USA
 Dartmouth College, Hanover, USA
 LMU / Gene Center Munich, Germany
 Young Investigator Meeting, Lindenfels Winkel, Germany
 3rd Prato Conference on Pore Forming Proteins, Italy
 International Conference on Structural Genomics, Rehovot, Israel
 40th FEBS Congress, Berlin, Germany
 BASF Ludwigshafen, Germany
 Beatson Institute Glasgow, Scotland
 Alternative Muscle and Motors Conference, Kent, Great Britain
 CeNS Nanoscience Workshop, Venice, Italy
 IRTG-Retreat SFB 944 University of Osnabrück, Germany
 Bayer Crop Science, Mohnheim, Germany
 MPI for Medical Research Heidelberg, Germany
 PSDI Protein Structure Determination in Industry, Rottach-Egern, Germany
 Biophysics Meeting, Stellenbosch, South Africa
 University of Geneva, Switzerland
- 2014 49. winter seminar biophysical chemistry, Klosters, Switzerland
 TU München, Germany
 Symposium „Membranes & Modules“, Berlin, Germany
 University Duisburg-Essen, Germany

- IBMC Porto, Portugal
 IUCr 2014 Montreal, Canada
 Janelia Farm, USA
 NIH, Bethesda, USA
 PhD seminar, ETH Zurich, Switzerland
 Murnau Conference of the GBM, Germany
 International Titisee Conference, Boehringer-Ingelheim-Stiftung, Germany
 MPI for Biophysical Chemistry Göttingen, Germany
 ISAS Dortmund, Germany
 Vrije Universiteit Brussel, Belgium
 Biozentrum Basel, Switzerland
 Israel annual biochemistry meeting, Weizmann Institute Rehovot, Israel
- 2013 48. winter seminar biophysical chemistry, Klosters, Switzerland
 Biophysical Society Meeting – Philadelphia, USA
 Boston University, Boston, MA, USA
 Vanderbilt University, Nashville, TN, USA
 Alpbach Molecular Motors Meeting, Alpbach, Austria
 Max-Planck-Institut für Medizinische Forschung, Heidelberg, Germany
 Universität Göttingen, Germany
 RIKEN-Max Planck Joint Symposium, Tokyo, Japan
 EMBL, Grenoble, France
 Second international Caesar conference, Bonn, Germany
 ESF-EMBL Conference Protein-Protein interactions, Pultusk, Poland
 European toxicology conference (etox), Freiburg, Germany
 European microscopy conference, Regensburg, Germany
 British Society for General Microbiology Autumn Meeting, Sussex, UK
 Max-Planck-Institut for Molecular Genetics, Berlin, Germany
 Molecular Life Sciences Conference – GBM, Frankfurt/Main, Germany
 MRC Laboratory of Molecular Biology, Cambridge, UK
 University of Bristol, Bristol, UK
 3rd International GRK meeting, Halle/Saale, Germany
 ETH Zurich, Switzerland
- 2012 University of Kent, Canterbury, UK
 University of California San Diego (UCSD), USA
 University of California San Francisco (UCSF), USA
 University of California Davis (UCD), USA
 Jacobs University Bremen, Germany
 Gordon Research Conference 3D electron microscopy, Les Diablerets, Switzerland
 Gordon Research Conference Molecular Motors, New London, NH, USA
 Biophysical Society Meeting - New and Notable Symposium, San Diego, USA
 Annual Meeting of the German Biophysical Society, Göttingen, Germany

- Myofilament Meeting, Madison, USA
TEMIMPS Annual Meeting, New York, USA
Structural Biology in the BioEconomy Conference, Cape Town, South Africa
Leopoldina Symposium, Halle, Germany
- 2011 Gordon Research Conference for 3D electron microscopy, New London, NH, USA
SFB 642, Ruhr-University Bochum
University of Freiburg
44th Winter Seminar Biophysical Chemistry, Klosters, Switzerland
- 2010 McGill University, Montreal, Canada
University of Bochum, Germany
University Hospital Essen, Germany
Max Planck Institute of Biophysics, Frankfurt, Germany
- 2009 University of Osnabrück, Germany
- 2008 Virchow Center Würzburg, Germany
Weill Cornell Medical School, NY, USA
BZH, University of Heidelberg, Germany
EPFL Lausanne, Switzerland

COMPLETE LIST OF GRADUATE STUDENTS

Elmar Behrmann (2008-2012)
 Yashar Sadian (2009-2013)
 Shyamal Mosalaganti (2009-2014)
 Dominic Meusch (2009-2014)
 Daniel Prumbaum (2010-2015)
 Julian von der Ecken (2013-2016)
 Minghui Xiu (2013-2017)
 Arne Bothe (2014-2018)
 Dennis Quentin (2014-2018)
 Philine Hagel (2014-2018)
 Claudia Antoni (2014-2019)
 Franziska Leidreiter (2015-2019)
 Evelyn Schubert (2015-2020)
Martin Spinck (2016-2020) – Neumann group
Neha Jain (2017-2020) – Neumann group
 Zhexin Wang (2016-2022)
 Markus Stabrin (2016-2020)
 Birte Weyers (2016-2021)
Sheila Mainye (2017-2021) – Hernandez group

Pascal Lill (2017-2021) – Gatsogiannis group
 Sabrina Pospich (2015-2021)
Anson Shek (2018-2023) – Hernandez group
 Patrick Günther (2018-2023)
 Davide Tamborrini (2018-2024)
Angela Hagemeyer (2019-2023) – Hernandez group
 Mingjun Xu (since 2019-2024)
 Philipp Heilen (since 2020)
 Raphael Bader (since 2021)
 Elisa Lisicki (since 2021)
 Alicia Peschel (since 2021)
 Adriana Prajica (since 2021)
 Asena Oelschläger (since 2022)
Milena Redhardt (since 2024) – Raisch group
 Isabel Olbrich (since 2024)
 Yousef Metwally (since 2024)
Stella Arau Jabubzik (since 2024) – Pospich group

COMPLETE LIST OF POSTDOCTORAL FELLOWS

Dr. Antje Schulte (2008)
 Dr. Rouslan Efremov (2010-2013)
 Dr. Anne Kuhlee (2010-2016)
 Dr. Christos Gatsogiannis (2010-2020)
 Dr. Yan Nie (2013-2015)
 Dr. Shyamal Mosalaganti (2014-2015)
 Dr. Dominic Meusch (2014-2016)
 Dr. Amir Apelbaum (2014-2019)
 Dr. Puneet Juneja (2014-2017)
 Dr. Barathy Vinayagam (2014-2023)
 Dr. Toshio Moriya (2014-2018)
 Dr. Felipe Merino (2014-2019)
 Dr. Daniel Prumbaum (2015-2017)
 Dr. Michael Saur (2015-2017)
 Dr. Daniel Roderer (2015-2020)
 Dr. Julian von der Ecken (2016-2017)
Dr. Petra Neumann-Staubitz (2016-2020) – Neumann group
 Dr. Björn Udo Klink (2016-2020) – shared with Gatsogiannis group

Dr. Minghao Chen (2017-2020) – Gatsogiannis group
 Dr. Sergii Shydlovskiy (2017-2019)
 Dr. Dennis Quentin (2018-2020)
 Dr. Tanvir R. Tapu Shaikh (2018-2021)
 Dr. Michael Grange (2018-2021)
 Dr. Fabian Schönfeld (2018-2021)
 Dr. Adnan Ali (2018-2021)
 Dr. Alexander Belyy (2018-2023)
 Dr. Philine Hagel (2019)
 Dr. Luca Lusnig (2019-2022)
 Dr. Evelyn Schubert (2020-2022)
 Dr. Birte Weyers (2021)
 Dr. Thorsten Wagner (since 2017)
 Dr. Tobias Raisch (since 2017)
 Dr. Oleg Sitsel (2018-2024)
 Dr. Sebastian Tacke (since 2018)
 Dr. Peter Njenga Ng`Ang`A (since 2020)
 Dr. Sreeparna Biswas (since 2021)
 Dr. Micaela Boiero Sanders (since 2021)
 Dr. Wout Oosterheert (since 2021)

Dr. Sabrina Pospich (since 2021)
Dr. Gavin Rice (since 2021)
Dr. Ryan Hylton (since 2022)
Dr. Baptiste Colcombet-Cazenave (since 2023)
Dr. Victoria Trinkaus (since 2023)

Dr. Tatjana Taubitz (since 2023) – Tacke group
Dr. Jai Prakash Singh (since 2023)
Dr. Heng Zhou (since 2023)
Dr. Jagannath Maharana (since 2024)
Dr. Jian Li (since 2024) – Raisch group

COMPLETE LIST OF UNDERGRADUATE STUDENTS:

BACHELOR:

Kay Wilschinsky (2011)
Hendrik de Buhr (2011-2012)
Evelyn Schubert (2012)
Lisa Wessler (2012)
David Feuerborn (2012)
Katharina Rosga (2012-2013)

Caroline Kopittke (2014)
Markus Stabrin (2014)
Tasnim Eleslambouly (2015-2016)
Lea Kruse (2017)
Debora Hannah Obergfäll (2020-2021)
Lisa Kratzenberg (2020-2021) – Gatsogiannis group

MASTER:

Nadine Borg (2008-2009)
Teresa Boldt (2008-2009)
Peter Nicolai (2010)
Daniel Prumbaum (2009-2010)
Claudia Haering (2010-2011)
Daniel Tomazic (2010-2011)
Gregor Bahrenberg (Diploma 2010-2011)
Marcel Bolten (2011)
Julian von der Ecken (2012-2013)
Kay Wilschinsky (2013)
Nathalie Deckert (2013)
Dennis Quentin (2014)
Franziska Leidreiter (2014-2015)
Evelyn Schubert (2015)
Sabrina Pospich (2015)
Pascal Lill (2016)
Birte Siebolds (2016)
Markus Stabrin (2016)

Berenike Rath (2016-2017)
Sandra Seredinski (2016-2017)
Verena Kunig (2016-2017)
Justina Stark (2017-2018) – Gatsogiannis group
Julia Kotschy (2017)
Lydia Borgelt (2017-2018) – Gatsogiannis group
Stefan Schmeing (2017-2018)
Patrick Günther (2018)
Julia Schweighofer (2018-2019)
Simon Kotnig (2018-2019) – Neumann group
Damian Schiller (2018-2019) – Neumann group
Lara Kroczeck (2020)
Michelle Koci (2020) – Gatsogiannis group
Lena Engelhard (2020) – Gatsogiannis group
Asena Oelschläger (2022)
Milena Redhardt (2023) – Raisch group
Isabel Olbrich (2023-2024)
Kendra Menze (2023-2024)