



64.

MOSBACHER
KOLLOQUIUM

MEMBRANES
IN MOTION

4 - 6 APRIL 2013

PROGRAM

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Dear Colleague,

understanding the fundamental principles forming and shaping biological membranes is one of the major challenges in science. Membranes are essential to all forms of life as they generate distinct compartments, and by that, form the basis for any spatio-temporal control of biochemical processes. This important topic is covered from many different angles by a number of disciplines, but the communication between these disciplines is still limited. Thus, we initiated an interdisciplinary scientific meeting with the topic “Membranes in Motion” covering a broad range from biophysics to cell biology.

The meeting is part of a series termed “Mosbacher Kolloquium” organized on a yearly basis by the German Society for Biochemistry and Molecular Biology (GBM). It has a long tradition as it started in 1950 and is renowned for many meetings that have opened new directions in science.

The character of the meeting is rather small and intense and we sincerely hope to promote scientific exchange and promotion of young scientists.

We are looking forward seeing many of you in Mosbach.

Yours,

Petra Schwille and Andreas Reichert

PROGRAM AT A GLANCE

WEDNESDAY, 3 APRIL

17:00 - 20:00	Arrival and registration
18:45 - 19:45	DFG Session: Funding for young researchers
20:00 - 22:00	Get-together and welcome reception

City hall/Mosbach



DAY OF ARRIVAL

The Steering Committee of the German Society for Biochemistry and Molecular Biology (Gesellschaft für Biochemie und Molekularbiologie, GBM) and the city of Mosbach invite you to a welcome reception at 8.00 p.m. in the city hall (Rathaus, Marktplatz/ Hauptstraße) in Mosbach (to end about 10 p.m. - no registration required)

We thank the city of Mosbach for the kind hospitality.



THURSDAY, 4 APRIL

08:50 - 09:00	Opening remarks
09:00 - 10:30	Session 1: Biochemistry and biophysics of membranes Reinhard Lipowsky, Golm-Potsdam (DE) Tobias Baumgart, Philadelphia (US) Felix Wieland/Britta Brügger, Heidelberg (DE)
10:30 - 11:00	Coffee break
11:00 - 12:00	Session 1 (continuation): Joost C.M. Holthuis, Osnabrück (DE) Rumiana Dimova, Golm-Potsdam (DE)
12:00 - 12:30	Lunch break
12:00 - 13:00	Meet the Prof
12:30 - 14:00	Poster Session 1 (even numbers)
14:00 - 15:30	Session 2: Membrane domains and dynamics Kai Simons, Dresden (DE) Satyajit Mayor, Bangalore (IN) Claudia Steinem, Göttingen (DE)
15:30 - 16:00	Coffee break
16:00 - 16:30	Session 2 (continuation): Christian Eggeling, Oxford (UK)
16:30 - 17:00	Junior GBM Session: Enrico Schleiff, Frankfurt (DE)
17:15 - 18:45	GBM General Meeting
19:00 - 20:00	Feodor Lynen Lecture: Jennifer Lippincott-Schwartz, Bethesda (US)
20:00 - 21:30	Lynen reception
20:00 - 21:30	Poster Session 2 (all numbers)
21:30 - 24:00	Party & Dance (org. by Junior GBM)





PROGRAM AT A GLANCE

FRIDAY, 5 APRIL

09:00 - 10:30	Session 3: Membrane curvature and scaffolds Patricia Bassereau, Paris (FR) Harvey T. McMahon, Cambridge (UK) Tom Kirchhausen, Boston (US)
10:30 - 11:00	Coffee break
11:00 - 12:10	Session 3 (continuation) Thomas Wollert, Munich (DE) Min Wu, Singapore (SG) Kirsten Bacia, Halle (DE)
12:10 - 12:40	Lunch break
12:10 - 13:10	Meet the Prof
12:40 - 14:00	Poster Session 3 (uneven numbers)
14:00 - 15:30	Session 4: Fusion and fission of membranes Pietro de Camilli, New Haven (US) Sandra L. Schmid, Dallas (US) Jodi Nunnari, Davis (US)
15:30 - 16:00	Coffee break
16:00 - 17:00	Session 4 (continuation): Ana Garcia-Saez, Heidelberg (DE) Karin Busch, Osnabrück (DE) Christian Ungermann, Osnabrück (DE)
17:15 - 17:30	Bayer HealthCare PhD Prize: Tanmay Bharat, Heidelberg (DE)
17:30 - 18:30	Eduard Buchner Award Lecture: Reinhard Jahn, Göttingen (DE)
18:30 - 20:00	Junior GBM Meeting



SATURDAY, 6 APRIL

09:00 - 10:20	Session 5: Lipids and organelles Dennis R. Voelker, Denver (US) Sepp D. Kohlwein, Graz (AT) Walter Nickel, Heidelberg (DE)
10:20 - 10:50	Coffee break
10:50 - 12:00	Session 5 (continuation): Robert Ernst, Frankfurt (DE) Gerrit Praefcke, Cologne (DE) Thomas Langer, Cologne (DE)
12:00 - 12:15	Poster Prizes and closing remarks



Alte Maelzerei/Congress venue



WEDNESDAY, 3 APRIL

17:00 - 20:00	Arrival and registration
18:45 - 19:45	DFG Session: Nikolai Raffler , Bonn (DE) Funding for young researchers
20:00 - 22:00	Get-together and welcome reception (in the city hall)

THURSDAY, 4 APRIL

08:50 - 09:00	Opening remarks: Irmgard Sinning (President of GBM) Petra Schulle (Organizing Committee)
09:00 - 10:30	Session 1 (Chair: P. Schulle): Biochemistry and biophysics of membranes
09:00 - 09:30	Reinhard Lipowsky , Golm-Potsdam (DE) <i>Multiscale membranes: From molecular interactions to mesoscopic remodelling</i>
09:30 - 10:00	Tobias Baumgart , Philadelphia (US) <i>Membrane interaction mechanisms and curvature sorting of BAR domain proteins</i>
10:00 - 10:30	Felix Wieland/Britta Brügger , Heidelberg (DE) <i>Molecular mechanisms underlying the formation of a transport vesicle</i>
10:30 - 11:00	Coffee break
11:00 - 12:00	Session 1 (continuation): Biochemistry and biophysics of membranes
11:00 - 11:30	Joost C.M. Holthuis , Osnabrück (DE) <i>Sphingolipid biosynthesis: damned if you do, damned if you don't</i>
11:30 - 12:00	Rumiana Dimova , Golm-Potsdam (DE) <i>Membrane wetting, budding and tube formation in vesicles enclosing two aqueous phases</i>



THURSDAY, 4 APRIL

12:00 - 12:30	Lunch break
12:00 - 13:00	Meet the Prof (Chair: N. Laasch): Jennifer Lippincott-Schwartz , Bethesda (US)
12:30 - 14:00	Poster Session 1 (even numbers)
14:00 - 15:30	Session 2 (Chair: R. Lipowsky): Membrane domains and dynamics
14:00 - 14:30	Kai Simons , Dresden (DE) <i>Lipids organizing membrane</i>
14:30 - 15:00	Satyajit Mayor , Bangalore (IN) <i>Active organization of membrane components in living cells: dynamic actin at the frontlines!</i>
15:00 - 15:30	Claudia Steinem , Göttingen (DE) <i>Domain formation in pore-spanning bilayers</i>
15:30 - 16:00	Coffee break
16:00 - 17:00	Session 2 (continuation): Membrane domains and dynamics
16:00 - 16:30	Christian Eggeling , Oxford (UK) <i>Studying plasma membrane organization with fluorescence (STED) super-resolution microscopy</i>
16:30 - 17:00	Junior GBM Session (Chair: S. Timmler): Enrico Schleiff , Frankfurt (DE) <i>The relation between membrane dynamics, lipid composition and protein content on the example of chloroplasts</i>
17:15 - 18:45	GBM General Meeting
19:00 - 20:00	Feodor Lynen Lecture: Jennifer Lippincott-Schwartz , Bethesda (US) <i>Probing protein heterogeneity and receptor stoichiometry using PALM</i>
20:00 - 21:30	Lynen reception



THURSDAY, 4 APRIL

20:00 - 21:30	Poster Session 2 (all numbers)
21:30 - 24:00	Party & Dance (org. by Junior GBM)

FRIDAY, 5 APRIL

09:00 - 10:30	Session 3 (Chair: P. de Camilli): Membrane curvature and scaffolds
09:00 - 09:30	Patricia Bassereau , Paris (FR) <i>Membrane curvature generated by proteins involved in traffic</i>
09:30 - 10:00	Harvey T. McMahon , Cambridge (UK) <i>Endocytic and Exocytic Mechanisms</i>
10:00 - 10:30	Tom Kirchhausen , Boston (US) <i>Dynamics of Endocytosis</i>
10:30 - 11:00	Coffee break
11:00 - 12:10	Session 3 (continuation) Membrane curvature and scaffolds
11:00 - 11:30	Thomas Wollert , Munich (DE) <i>Molecular mechanism of membrane coat formation</i>
11:30 - 11:50	Min Wu , Singapore (SG) <i>Curvature-generating proteins and subcellular pattern formation</i>
11:50 - 12:10	Kirsten Bacia , Halle (DE) <i>Arf1 / Sar1 membrane interaction and function</i>
12:10 - 12:40	Lunch break
12:10 - 13:10	Meet the Prof (Chair: J. Einloft): Reinhard Jahn , Göttingen (DE)
12:40 - 14:00	Poster Session 3 (uneven numbers)

FRIDAY, 5 APRIL

14:00 - 15:30	Session 4 (Chair: T. Kirchhausen): Fusion and fission of membranes
14:00 - 14:30	Pietro de Camilli , New Haven (US) <i>Membrane dynamics and phosphoinositide signaling in the endocytic pathway</i>
14:30 - 15:00	Sandra L. Schmid , Dallas (US) <i>Mechanisms governing dynamin-catalyzed membrane fission</i>
15:00 - 15:30	Jodi Nunnari , Davis (US) <i>Molecular mechanisms of mitochondrial behavior</i>
15:30 - 16:00	Coffee break
16:00 - 17:00	Session 4 (continuation): Fusion and fission of membranes
16:00 - 16:20	Ana Garcia-Saez , Heidelberg (DE) <i>Mitochondrial changes in apoptosis</i>
16:20 - 16:40	Karin Busch , Osnabrück (DE) <i>The super-resolved Look into Mitochondria: TALM of individual OXPHOS Complexes reveals Confinement in Cristae Membranes</i>
16:40 - 17:00	Christian Ungermann , Osnabrück (DE) <i>The CORVET complex promotes tethering and fusion of Rab5/Vps21-positive membranes</i>
17:15 - 17:30	Bayer HealthCare PhD Prize: Tanmay Bharat , Heidelberg (DE) <i>Structure and budding of Marburg and Ebola virus</i>
17:30 - 18:30	Eduard Buchner Award Lecture: Reinhard Jahn , Göttingen (DE) <i>Mechanisms membrane fusion in the secretory pathway</i>
18:30 - 20:00	Junior GBM Meeting

SATURDAY, 6 APRIL

09:00 - 10:20	Session 5 (Chair: A. Reichert): Lipids and organelles
09:00 - 09:30	Dennis R. Voelker , Denver (US) <i>From protease to decarboxylase: the molecular metamorphosis of phosphatidylserine decarboxylases</i>
09:30 - 10:00	Sepp D. Kohlwein , Graz (AT) <i>A matter of fat - store 'em up or break 'em down: neutral and membrane lipid homeostasis in yeast</i>
10:00 - 10:20	Walter Nickel , Heidelberg (DE) <i>Phosphoinositide-dependent oligomerization of Fibroblast Growth Factor 2 triggers the formation of a lipidic membrane pore implicated in unconventional secretion</i>
10:20 - 10:50	Coffee break
10:50 - 12:00	Session 5 (continuation): Lipids and organelles
10:50 - 11:10	Robert Ernst , Frankfurt (DE) <i>A lipid-centered E-MAP identifies UBX2 as a critical regulator of lipid saturation and bilayer quality control</i>
11:10 - 11:30	Gerrit Praefcke , Cologne (DE) <i>A farnesyl switch regulates the membrane binding of human guanylate binding protein 1</i>
11:30 - 12:00	Thomas Langer , Cologne (DE) <i>Mitochondrial membrane scaffolds and lipid trafficking</i>
12:00 - 12:15	Poster Prizes and closing remarks: Roger Goody (President of GBM) Andreas Reichert (Organizing Committee)

MEET THE PROF

Once again the Junior GBM will organize the established event „Meet the Prof“ with successful speakers from science and research.

Guests:

Thu., 4 April 2013, 12.00 - Rm. Darre

(Chair: Niklas Laasch)

Jennifer Lippincott-Schwartz, Bethesda (US)

Fri., 5 April 2013, 12:10 - Rm. Darre

(Chair: Jens Einloft)

Reinhard Jahn, Göttingen (DE)

In an informal atmosphere, you've got the chance to ask the question which keeps you up at night - e.g. how do I make a career in science? Did the speaker have fun on his/her own way and which experiences were helpful? You are welcome to join and ask further questions.

For students only! Registration required!

PARTY AND DANCE

The students committee of the German Society for Biochemistry and Molecular Biology is organizing an informal get-together with dance.

Date:

Thursday, 4 April 2013, 9.30 p.m.

(after Lynen reception)

Hopfen Keller (Alte Mälzerei)

no registration required

FUNDING FOR YOUNG RESEARCHERS

Wed., 3 April 2013, 18:45 - Rm. Darre

Nikolai Raffler, Bonn (DE)

Deutsche Forschungsgemeinschaft

The German Research Foundation (DFG) is the largest research funding organisation in Germany. It provides financial support for research in higher education and public research institutions.

The DFG offers many opportunities for postdoctoral researchers. This begins with support in the form of research scholarships and ranges to the funding of postdoctoral posts in DFG-funded projects and even the applicant's own project. International interchange is explicitly desired in this context.

Nikolai Raffler will give a short introduction into profile and mission of the German Research Foundation. Funding opportunities for early career researchers will be outlined, as well as the review process. There will be time for discussion and questions.

WELCOME RECEPTION

The Steering Committee of the German Society for Biochemistry and Molecular Biology (Gesellschaft für Biochemie und Molekularbiologie, GBM) and the city of Mosbach invite you to a welcome reception at 8.00 p.m. in the city hall (Rathaus, Marktplatz / Hauptstraße) in Mosbach (to end about 10 p.m.)

We thank the city of Mosbach for the kind hospitality.

Date:

Wednesday, 3 April 2013, 8.00 p.m.

Town hall, (Rathaus, Marktplatz / Hauptstraße)

no registration required

LYNEN RECEPTION

The GBM Steering Committee invites you to a reception in honor of Feodor Lynen after the Lynen Lecture.

Date:

Thursday, 4 April 2013, 8.00 p.m.

Alte Mälzerei

no registration required

PARTY AND DANCE

The students committee of the German Society for Biochemistry and Molecular Biology is organizing an informal get-together with dance - see page 14.

ACCOMMODATION

Accommodation can be booked through Städtisches Verkehrsamt (Tourist office). Please use the accommodation form at the meeting website.

You will receive confirmation by mail.

For further questions concerning hotel reservation please contact the tourist information (Tel. +49 6261-9188-20, Fax -15, Email tourist.info@mosbach.de).

CONFERENCE OFFICE

Opening hours:

Wed., 3 April	05.00 p.m. - 07.45 p.m.
Thu., 4 April	08.00 a.m. - 04.30 p.m.
Fri., 5 April	08.30 a.m. - 04.30 p.m.
Sat., 6 April	08.30 a.m. - 11.00 a.m.

Telephone and Fax numbers of the conference office (3 - 6 April 2013) are:

Tel. +49 (0) 6261 9292-78,
Fax. +49 (0) 6261 9292-79

INTERNET

There will be two wireless LAN access points in the foyer next to the conference office.

SSID: AM	Kongress
Username: gbm	
Password: gbm-2013 (Registration on browser)	Key: gbm-2013 (WPA2 encryption)

LUNCH & COFFEE BREAKS

Coffee, tea and mineral water will be provided for free during the coffee breaks.

Lunch is available at your own expense in the conference center or you can also visit one of the restaurants in the town of Mosbach.

POSTERS

Poster sessions:

Thursday, 4 April, 12:30 - 14:00: even numbers

Thursday, 4 April, 20:00 - 21:30: all numbers

Friday, 5 April, 12:40 - 14:00: uneven numbers

During the poster sessions the presenting authors are requested to stay near their posters. Please see the abstract book for poster numbers and authors. Posters should be presented throughout the whole meeting.

The best three posters will be awarded.

The winners will be announced by the end of the Kolloquium on Saturday. To receive the price, personal attendance is required.

The posters should be presented in Portrait format (DIN A0 resp. ~120 x 85 cm)

INDUSTRIAL EXHIBITION

Please visit the booths of our sponsors:

Deutsche Forschungsgemeinschaft (DFG)

Herolab GmbH Laborgeräte

IRIS Biotech GmbH

Springer Verlag/Biospektrum

Verlag Walter de Gruyter/Biological Chemistry

REGISTRATION

Registration fees:

	late/onsite
members* academia	245 €
non-members academia	320 €
undergraduate members*	50 €
undergraduate non-members	75 €
graduate members*	95 €
graduate non-members	120 €
retiree members*	120 €
retiree non-members	165 €
industry member*	380 €
industry non-member	430 €

*Member of the GBM, VAAM, DGZ, Dechema

Please register online at the meeting homepage.

The registration fee includes coffee/tea/mineral water during the conference breaks.

Please note the payment terms described in the registration confirmation email. With a payment later than 28 February 2013 your registration cannot be accepted as early registration.

After 28 February 2013 the registration fee cannot be refunded.

If you want to join the GBM with your registration to enjoy the reduced participation fee, please fill in the membership application form (s. www.gbm-online.de) and send it to the GBM head office.

PROCEEDINGS

Your name badge, program, abstract booklet are available at the registration desk.

We kindly ask to wear your name badge as an entry ticket during the whole meeting.

VENUE - MOSBACH

Mosbach is located on the railway line (S-Bahn) Mannheim-Heidelberg-Mosbach-Osterburken, 45 kilometres east of Heidelberg.

The nearest airport is Frankfurt/Main. There are good train connections from Frankfurt airport station to Mannheim and from there to Mosbach.

By car:

From Frankfurt / Heidelberg: Motorway A6
exit Sinsheim - then B292 to Mosbach

From Stuttgart / Heilbronn:

A6 exit Neckarsulm - B27 to Mosbach

From Würzburg / Nürnberg:

A81 exit Osterburken, B 292 to Mosbach.

VENUE - ALTE MAELZEREI

The congress center is located just above the old city centre.

When arriving by car, please follow the yellow signs to parking areas P5 „Alte Mälzerei“ or P6 „Altstadt“.

Alte Maelzerei
Alte Bergsteige 7
74821 Mosbach
www.maelzerei.de





WWW.GBM-ONLINE.DE