

63. Mosbacher Kolloquium

Post-translational modifications
in signal integration and molecular
Therapies

29 - 31 March 2012



Program

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Dear Colleague,

The spring meetings of the German Society for Biochemistry and Molecular Biology (GBM) are held annually in the picturesque town of Mosbach to promote the exchange of scientific ideas and education of young scientists. The scientific theme of the 63rd meeting is focused on post-translational modifications and signal integration.

Due to improved detection technologies, the list of reported protein modifications has risen to well over 200. A crucial aspect of signalling through PTMs is the presence of modular protein domains that recognize particular types of PTMs. This coupling of modification with a corresponding recognition domain creates an attractive “decoding” mechanism for monitoring and responding to alterations in the cellular microenvironment. The biological significance of PTMs has also come a long way from the classical descriptions of their role in regulating a variety of cellular processes to the pharmacological use in designing novel molecular therapies.

At the meeting, the common principles of post-translational modifications and their importance in signal integration in the context of a wide variety of cellular responses will be discussed. The interdisciplinary spectrum of talks including structural biology, biochemistry, molecular and cellular biology, genetics and translational medicine is incorporated.

This year's meeting is also supported by the Cluster of Excellence Frankfurt Macromolecular Complexes.

We look forward to welcoming you in Mosbach.

Ivan Dikic / Volker Dötsch / Amparo Acker-Palmer

Wednesday, 28 March

17:00 - 20:00	Arrival and registration
20:00 - 22:00	Get-together and welcome reception

Thursday, 29 March

08:40 - 09:00	Opening remarks: President GBM / Scientific organizers
09:00 - 10:40	Session 1: Detection and analysis of PTM Tony Hunter, San Diego (US) Ruedi Aebersold, Zurich (CH) Gerald Hart, Baltimore (US)
10:45 - 11:15	Coffee break
11:15 - 12:20	Session 2: PTM in control of signalling John Kuriyan, Berkley (US) Soichi Wakatsuki, Tsukuba (JP)
12:30 - 13:30	Lunch break
12:45 - 13:45	Meet the Prof
13:30 - 15:00	Poster Session 1
15:00 - 16:05	Session 2: PTM in control of signalling Tony Pawson, Toronto (CA) Manolis Pasparakis, Cologne (DE)
16:10 - 16:40	Coffee break
16:40 - 17:00	Bayer Health Care PhD Prize: Hannes Mutschler, Heidelberg (DE)
17:00 - 19:00	GBM General Meeting
19:00 - 19:40	Feodor Lynen Lecture: Matthias Mann, Munich (DE)
20:00 - 21:30	Lynen reception
21:30 - 24:00	Party & Dance (org. by Junior GBM)

Friday, 30 March

09:00 - 10:40	Session 3: Quantitative aspects of Signal Integration Ursula Klingmüller, Heidelberg (DE) Alfred Wittinghofer, Dortmund (DE) Krishna Rajalingam, Frankfurt (DE)
10:45 - 11:15	Coffee break
11:15 - 12:20	Session 3: Quantitative aspects of Signal Integration Doug Lauffenberger, Boston (US) Philippe Bastiaens, Dortmund (DE)
12:30 - 13:30	Lunch break
12:45 - 13:45	Meet the Prof
13:30 - 15:00	Poster Session 2
15:00 - 16:05	Session 4: Signal integration in inflammation and cell fate specification Joseph Penninger, Vienna (AT) Michael Karin, San Diego (US)
16:10 - 16:40	Coffee break
16:40 - 17:10	Session 4: Signal integration in inflammation and cell fate specification Frauke Melchior, Heidelberg (DE)
17:15 - 18:15	Otto Warburg medal and lecture: Alexander Varshavsky, Pasadena (US)

Saturday, 31 March

09:00 - 10:40	Session 5: PTM and molecular therapies Sara Courtneidge, La Jolla (US) Carl-Henrik Heldin, Uppsala (SE) Gerry Melino, Leicester (UK)
10:45 - 11:15	Coffee break
11:15 - 12:20	Session 5: PTM in control of signalling Joseph Schlessinger, New Haven (US) Pier Paolo Di Fiore, Milan (IT)
12:30 - 12:45	Poster Prizes and closing remarks



Alte Maelzerei/Congress venue



Wednesday, 28 March

17:00 - 20:00

Arrival and registration

20:00 - 22:00

Get-together and welcome reception
(in the city hall)

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 8.30 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, 29 March

08:40 - 09:00	Opening remarks: President of GBM Organizing committee
	Session 1: Detection and analysis of PTM
09:00 - 09:35	Tony Hunter , San Diego (US) <i>Protein phosphorylation: the global picture</i>
09:35 - 10:10	Ruedi Aebersold , Zurich (CH) <i>Kinase-substrate net</i>
10:10 - 10:45	Gerald Hart , Baltimore (US) <i>Surprisingly extensive crosstalk between O-GlcNAcylation & phosphorylation</i>
10:45 - 11:15	Coffee break
	Session 2: PTM in control of signalling
11:15 - 11:50	John Kuriyan , Berkley (US) <i>Structural mechanisms in the regulation of the EGF receptor</i>
11:50 - 12:25	Soichi Wakatsuki , Tsukuba (JP) <i>Title not submitted yet</i>
12:30 - 13:30	Lunch break
12:45 - 13:45	Meet the Prof
13:30 - 15:00	Poster Session 1
	Session 2: PTM in control of signalling
15:00 - 15:35	Tony Pawson , Toronto (CA) <i>The dynamic control of phosphorylation-dependent signaling by scaffold proteins</i>
15:35 - 16:10	Manolis Pasparakis , Cologne (DE) <i>Epithelial regulation of immune homeostasis and inflammation in barrier surfaces</i>

Thursday, 29 March

16:10 - 16:40	Coffee break
16:40 - 17:00	Bayer Health Care PhD Prize: Hannes Mutschler , Heidelberg (DE) <i>Toxic turnover: how zeta toxins corrupt bacterial cell wall synthesis</i>
17:00 - 19:00	GBM General Meeting
19:00 - 19:40	Feodor Lynen Lecture: Matthias Mann , Munich (DE) <i>High resolution mass spectrometry for the functional study of the proteome</i>
20:00 - 21:30	Lynen reception
21:30 - 24:00	Party & Dance (org. by Junior GBM)

Friday, 30 March

	Session 3: Quantitative aspects of Signal Integration
09:00 - 09:35	Ursula Klingmüller , Heidelberg (DE) <i>Information processing through the erythropoietin receptor network</i>
09:35 - 10:10	Alfred Wittinghofer , Dortmund (DE) <i>Posttranslational modification and spatio-temporal regulation of Ras proteins</i>
10:10 - 10:45	Krishna Rajalingam , Frankfurt (DE) <i>Title not submitted yet</i>
10:45 - 11:15	Coffee break

Friday, 30 March

	Session 3: Quantitative aspects of Signal Integration
11:15 - 11:50	Doug Lauffenberger , Boston (US) <i>Computational Analysis of Phosphoproteomic Data for Elucidating Molecular Network Interactions</i>
11:50 - 12:25	Philippe Bastiaens , Dortmund (DE) <i>Title not submitted yet</i>
12:30 - 13:30	Lunch break
12:45 - 13:45	Meet the Prof
13:30 - 15:00	Poster Session 2
	Session 4: Signal integration in inflammation and cell fate specification
15:00 - 15:35	Joseph Penninger , Vienna (AT) <i>Haploid stem cells as tools for functional genomics</i>
15:35 - 16:10	Michael Karin , San Diego (US) <i>Title not submitted yet</i>
16:10 - 16:40	Coffee break
	Session 4: Signal integration in inflammation and cell fate specification
16:40 - 17:15	Frauke Melchior , Heidelberg (DE) <i>Sumoylation in oxidative stress</i>
17:15 - 18:15	Otto Warburg medal and lecture: Alexander Varshavsky , Pasadena (US) <i>Recent Discoveries About the Ubiquitin System and the N-End Rule Pathway</i>

Saturday, 31 March

	Session 5: PTM and molecular therapies
09:00 - 09:35	Sara Courtneidge , La Jolla (US) <i>The control of cell invasion in development and disease</i>
09:35 - 10:10	Carl-Henrik Heldin , Uppsala (SE) <i>Signaling via TGF-β receptors</i>
10:10 - 10:45	Gerry Melino , Leicester (UK) <i>Title not submitted yet</i>
10:45 - 11:15	Coffee break
	Session 5: PTM and molecular therapies
11:15 - 12:20	Joseph Schlessinger , New Haven (US) <i>Title not submitted yet</i>
	Pier Paolo Di Fiore , Milan (IT) <i>Endocytosis, Stem cells and Cancer</i>
12:30 - 12:45	Poster Prizes and closing remarks

Meet the Prof

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

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, 29 March 2012, 10.00 p.m.

(after Lynen reception)

Hopfen Keller (Alte Mälzerei)

no registration required

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 8.30 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, 28 March 2012, 8.30 p.m.

Lynen reception

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

Date:

Thursday, 29 March 2012, 8.00 p.m.

Alte Maelzerei

no registration required

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., 28 March	05.00 p.m. - 08.00 p.m.
Thu., 29 March	08.00 a.m. - 04.30 p.m.
Fri., 30 March	08.30 a.m. - 04.30 p.m.
Sat., 31 March	08.30 a.m. - 11.00 a.m.

Telephone and Fax numbers of the conference office (28 - 31 March 2012) are:
Tel. +49 (0) 6261 9292-78,
Fax. +49 (0) 6261 9292-79

Industrial exhibition

Please visit the booths of our industrial sponsors.

Internet access

There will be a wireless LAN access point in the foyer next to the conference office.

SSID: AM Key: GBM_2012

Lunch and 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.

Poster

Posters should be presented throughout the whole meeting.

There will be poster discussion sessions on Thursday and Friday afternoon. During the poster sessions the presenting authors are requested to stay near their posters.

The best three posters will be awarded.

The winners will be announced by the end of the Kolloquium on Saturday.

Please see the abstract book for poster numbers and authors.

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

Registration

Registration fees:

	early	late/onsite
members* academia	195 €	225 €
non-members academia	270 €	300 €
undergraduate members*	40 €	50 €
undergraduate non-members	65 €	75 €
graduate members*	65 €	75 €
graduate non-members	90 €	100 €
retiree members*	100 €	110 €
retiree non-members	145 €	155 €
industry	350 €	380 €

*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 29 February 2012 your registration cannot be accepted as early registration.

After 29 February 2011 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 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

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

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“.



www.mosbacher-kolloquium.org

