69th Mosbacher Kolloquium „Synthetic Biology - from Understanding to Application“
Scientific Board

Victor Sourjik
Max Planck Institute for Terrestrial Microbiology
SYNMIKRO /Marburg [DE]

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Philips University
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Welcome
Dear Colleagues,

The traditional 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 to foster the education of young scientists. The scientific theme of the 69th meeting is „Synthetic Biology – from Understanding to Application“.

Synthetic biology is a new highly interdisciplinary field of biological research, which aims at rational design of novel biological systems from well-characterized components, inspired by the concepts from engineering, physics and chemistry. It largely profits from the wealth of mechanistic insights and numerous tools generated through decades of research in molecular biology and biochemistry and more recently in systems biology. Synthetic biology addresses fundamental questions about the design of biological systems and also about the very nature of living organisms, and it also holds great promises for future biotechnology and medicine.

At the meeting, leading experts will give an overview of this emerging field, including both bottom-up design of artificial (minimal) cell-like systems and top-down rational modification and rewiring of existing cellular networks. The meeting will further cover multiple biotechnological and biomedical applications of synthetic biology.

We look forward to seeing you in Mosbach.

Victor Sourjik, Anke Becker,
Matias Zurbriggen, Wilfried Weber
This year the Mosbacher Kolloquium starts with the satellite symposium „Systems biology meets synthetic biology“, organized by DECHEMA.

A separate registration is required.

Academia - 50 €
PhD students - 35 €
Bachelor/Master students - 25 €

13:00 17:00
Lecture hall
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Wolfgang Wiechert /Jülich [DE]</td>
<td>Welcome address</td>
</tr>
<tr>
<td>13:05</td>
<td>Ralf Takors /Stuttgart [DE]</td>
<td>Systemic response of E. coli experiencing nutrient gradients of large-scale conditions: What can we learn for bioreactor design and strain engineering?</td>
</tr>
<tr>
<td>14:20</td>
<td>Andreas Kremling /Munich [DE]</td>
<td>A quantitative approach to metabolic burden</td>
</tr>
<tr>
<td>14:45</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>15:15</td>
<td>Edda Klipp /Berlin [DE]</td>
<td>Systematic integration of models and data for yeast growth and division</td>
</tr>
<tr>
<td>16:05</td>
<td>Matthias Heinemann /Groningen [NL]</td>
<td>Flux controls flux</td>
</tr>
<tr>
<td>16:30</td>
<td>Steffen Klamt /Magdeburg [DE]</td>
<td>Model-driven engineering of E. coli for itaconic acid production</td>
</tr>
</tbody>
</table>
Wednesday, March 21

Program
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00</td>
<td>Arrival and registration</td>
</tr>
<tr>
<td>17:00 - 18:00</td>
<td>How to build a career in science management: Advice from the expert</td>
</tr>
<tr>
<td></td>
<td>Britta Mädge reports on her experiences as program director at the German Research Foundation (DFG), her current position, and as senior editor for the journal &quot;Cell&quot;. Her lecture is followed by a discussion with all participants. Britta Mädge will also be available for one-on-one conversations during the Mosbacher Kolloquium (upon request).</td>
</tr>
<tr>
<td>18:00 - 19:30</td>
<td>Introductory lecture (&quot;Primer&quot;) with following panel discussion on current topics in synthetic biology</td>
</tr>
<tr>
<td>20:00</td>
<td>Welcome Reception /Get together</td>
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<tr>
<td></td>
<td>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 in the city hall (Rathaus, Marktplatz/ Hauptstraße) in Mosbach (to end about 10 p.m. - no registration required)</td>
</tr>
<tr>
<td></td>
<td>We thank the city of Mosbach for the kind hospitality.</td>
</tr>
</tbody>
</table>
Thursday, March 22
Opening remarks
Victor Sourjik (Scientific organizer)

Session 1: Cell-free & cell-like systems
(09:00 - 12:00 /Chair: V. Sourjik)

Cees Dekker /Delft [NL]
Shaping E. coli cells to study protein patterns and chromosome structure and dynamics

Short talk:
Hanna Wagner /Freiburg [DE]
Synthetic biology-inspired design of a biomaterial-based positive feedback loop

Petra Schwille /Munich [DE]
Life from the bottom-up

Coffee break

Sven Panke /Basel [CH]
Towards easily designable biochemical systems

Dora Tang /Dresden [DE]
Bottom up approaches to synthetic cellularity

Lunch break

Lunch sessions (p. 12f)

Poster session I (even numbers)
How to launch a start-up company – advice from the experts

(Chair: M. Feige)

The GBM working group “Young Investigators” (AK YI) kindly invites all interested participants of the Mosbacher Kolloquium to a podium discussion about the dos and don’ts you have to consider when planning your own start-up company.

Do you have a great, innovative idea and a smart team? Do you ask yourself what made some entrepreneurs fail and some successful? The AK YI invited experts from the start-up- and entrepreneurial field to give advice and to discuss the challenges and pitfalls.

Martin Hermatschweiler
(Nanoscribe GmbH)

Marianne Mertens
(High-Tech Gründerfonds Management GmbH)

Michael Jean Nettersheim
(BASF Venture Capital GmbH)

Arne Skerra
(Chair Biological Chemistry, Technische Universität München)
**Workshop**

„Wie finde ich die Stelle, die zu mir passt?“

Christoph Lindemann /academics

(in German language)

In Kooperation mit dem Job-Portal „academics“ organisiert die Junior GBM einen Workshop für Master- und Promotionsstudenten um über den aktuellen Arbeitsmarkt zu informieren.

Der Focus des Workshops liegt auf dem Wechsel von Studium in den Job und auf Arbeitsmöglichkeiten außerhalb der akademischen Karriere.

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**Meet the Prof I**

(Chair: N.N.)

(For students only)

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

In an informal atmosphere you will get the chance to ask the questions which keep you up at night - e.g. how do I make a career in science? Did the speaker had fun on his/her scientific path and which experiences were decisive?

You are welcome to join and ask further questions.

Guest:

Wendel Lim /San Francisco [US]
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30</td>
<td>Wolfgang Schamel /Freiburg [DE]</td>
<td>Optogenetic control of T cell activation and inactivation</td>
</tr>
<tr>
<td>14:45</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>15:15</td>
<td>Christopher Voigt /Boston [US]</td>
<td>Programming cells</td>
</tr>
<tr>
<td>15:30</td>
<td>Mustafa Khammash /Zurich [CH]</td>
<td>Theory and design of Cybergenetic Systems</td>
</tr>
</tbody>
</table>

**Session 2: Transcriptional and post-translational network control**
(14:30 - 16:45 /Chair: W. Wiechert)
16:45  Bayer Pharmaceuticals PhD Prize  
(Chair: F. X. Schmid)

Hauke Hillen /Göttingen [DE]  
Structural basis of human mitochondrial transcription

17:00  GBM General meeting

19:15  Feodor Lynen Lecture  
(Laudatio: A. Beck-Sickinger)

Wendell Lim /San Francisco [US]  
Biological design principles: learning by building

The German Society for Biochemistry and Molecular Biology honors Wendell Lim with the distinguished Feodor Lynen medal for his groundbreaking contributions to our understanding on how living cells use molecular networks to process information and make decisions.

After the prize lecture the GBM invites all participants to join the Lynen reception.

20:15  Poster session II (all numbers)

22:00  Party and Dance  
(organized by the Junior GBM)
Session 3: Engineering genomes and networks  
(09:00 - 12:00 /Chair: W. Weber)

**Martin Fussenegger** /Basel [CH]  
Synthetic gene switches

Short talk:  
**Beatrix Suess** /Darmstadt [DE]  
RNA aptamers as genetic control devices – the potential of riboswitches as synthetic elements for regulating gene expression

**Barbara Di Ventura** /Freiburg [DE]  
Combining inteins and optogenetics to control protein activity in living cells

Coffee break

**John Glass** /La Jolla [US]  
Design and synthesis of a minimal bacterial genome

**Sarah O’Conner** /Norwich (UK)  
Harnessing the chemistry of plant metabolism for synthetic biology

Lunch break

Lunch sessions (p. 17)
Get to know iGEM

(Chair: H. Jacobsen)

The “international Genetically Engineered Machine” (iGEM) competition is an international contest for student-teams in the synthetic biology field. Multidisciplinary teams work together to design, build, test, and measure a system of their own design. They come together in the fall to present their work and compete at the annual Jamboree at the MIT in Cambridge (USA).

The Junior GBM invites former and current iGEM team members and young participants of the Mosbacher Kolloquium for an exchange of ideas about current and future iGEM activities.

Meet the Prof II

(Chair: N.N.)

(For students only)

This is the second part of this year’s “Meet the Prof”, an informal meeting with distinguished speakers from science and research.

Guest:
Peter Hegemann /Berlin [DE]
Friday, March 23

13:00
Poster session III
(uneven numbers)

14:30
Session 4: Application in biotechnology & medicine
(14:30 - 17:30 /Chair: M. Zurbriggen)

Jay Keasling /Berkeley [US]
Engineered Polyketide Synthases for Production of Commodity and Specialty Chemicals

15:00
Short talk:
Ralf Wagner /Regensburg [DE]
Synthetic biology: Inspiration for (HIV) vaccine development

15:15
Yaakov Benenson /Basel [CH]
Synthetic mammalian gene circuits: from fundamentals to applications

15:45
Coffee break

16:15
Junior GBM Session:
(16:15 - 17:15 /Chairs: M. Lafrentz, H. Jacobsen)

Tobias Erb /Marburg [DE]
CETCH me if you can: Bringing inorganic carbon into life with synthetic CO$_2$-fixation

16:45
Michael Bott /Julich [DE]
Genetically encoded biosensors – valuable tools for white biotechnology
Otto Warburg Medal  
(Laudatio: J. Herrmann)

Peter Hegemann /Berlin [DE]  
Multicomponent Optogenetics

Sensing is not Understanding

This year the GBM, Elsevier and Biochimica et Biophysica Acta (BBA) will honor Peter Hegemann from the Humboldt University in Berlin for his pioneering research in the field of the light-induced ion channels with the Otto Warburg Medal.

The highest award in Germany for biochemists and molecular biologists promotes outstanding scientific excellence and encourages groundbreaking achievements in the field of fundamental biochemical and molecular biological research.

Since 1963 the Otto Warburg Medal is intended to commemorate the outstanding achievements of Otto Heinrich Warburg. Elsevier and its flagship title Biochimica et Biophysica Acta (BBA) are exclusive sponsors of the Medal. To emphasize the importance of excellent scientific research and motivate young researchers to achieve outstanding results, the prize is endowed with 25.000 Euro.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Session</td>
<td>Jason Chin</td>
<td>Cambridge [UK]</td>
<td>Reprogramming the genetic code</td>
</tr>
<tr>
<td>09:30</td>
<td>Short talk</td>
<td>Dirk Benzinger</td>
<td>Zurich [CH]</td>
<td>Interrogating and tuning stochastic gene expression by optogenetic transcription factor control</td>
</tr>
<tr>
<td>10:15</td>
<td></td>
<td>Lukas Kapitein</td>
<td>Utrecht [NL]</td>
<td>Using light to dissect and direct cellular transport systems</td>
</tr>
<tr>
<td>10:45</td>
<td>Coffee break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td></td>
<td>Teva Vernoux</td>
<td>Lyon [FR]</td>
<td>From sensors to signal quantification to understand self-organization in plants</td>
</tr>
<tr>
<td>11:45</td>
<td></td>
<td>Michael Reth</td>
<td>Freiburg [DE]</td>
<td>Rebuilding of a mammalian signaling pathway</td>
</tr>
<tr>
<td>11:45</td>
<td></td>
<td>Poster prizes and closing remarks</td>
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<td></td>
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</tbody>
</table>

Session 5: Application in fundamental research
(09:00 - 12:00 /Chair: A. Becker)

Workshop of the GASB
„The future of SynBio in Germany: Challenges, Opportunities and Solutions“
(12:30 - 17:00, p. 22f)
The workshop is organised by the German Association for Synthetic Biology (GASB).

The purpose of the workshop will be to debate several topics of importance for the future of this discipline in Germany, for instance Education, Politics, Public Perception, Funding, Industry or Ethics. Any other topic of interest suggested by participants is welcome as well. The goal is to discuss topics in small groups, identify key aspects, arguments, milestones, suggestions and future objectives that need to be addressed and implemented in order to improve the situation in Germany. At the end, the results will be summarized and recorded to present the views of the scientific community on these topics. The final draft is intended to be the RoadMap for SynBio in Germany for the next years.

Room: Malzboden & Tenne

There will be no registration fees. Everyone who is interested is welcome to join this workshop. However due to organisational needs it is required to register for this event by sending a mail to workshop@ga-sb.de.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>12:30</td>
<td>Welcome reception with a small lunch</td>
</tr>
<tr>
<td>13:15</td>
<td>Opening of “Future of SynBio in Germany: Challenges, Opportunities and Solutions” and Introduction of GASB e.V.</td>
</tr>
<tr>
<td>13:30</td>
<td>Topic collection</td>
</tr>
<tr>
<td>13:40</td>
<td>Start of the group work session</td>
</tr>
<tr>
<td>15:00</td>
<td>Coffee break and intermediate results summary of the groups</td>
</tr>
<tr>
<td>15:45</td>
<td>Final group work session</td>
</tr>
<tr>
<td>16:15</td>
<td>Group work presentation</td>
</tr>
<tr>
<td>16:50</td>
<td>Next steps/digital organisation and closing remarks</td>
</tr>
</tbody>
</table>
Meetings of the GBM stakeholders for GBM members only!
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 21</td>
<td>14:00 - 17:00</td>
<td>Schalander</td>
<td>Sitzung: Arbeitskreis Studium Molekulare Biowissenschaften</td>
</tr>
<tr>
<td>March 21</td>
<td>17:00 - 19:00</td>
<td>Malzboden</td>
<td>Sitzung: Sprecher der GBM-Studiengruppen</td>
</tr>
<tr>
<td>March 22</td>
<td>12:30 - 14:00</td>
<td>Malzboden</td>
<td>Sitzung: GBM-Kontaktpersonen</td>
</tr>
<tr>
<td>March 22</td>
<td>13:30 - 14:30</td>
<td>Schalander</td>
<td>Sitzung: junior GBM Stadt- und Bundessprecher</td>
</tr>
<tr>
<td>March 22</td>
<td>14:45 - 16:30</td>
<td>Schalander</td>
<td>Sitzung: Arbeitskreis „Senior Experts“</td>
</tr>
<tr>
<td>March 22</td>
<td>17:00 - 19:15</td>
<td>Lecture hall</td>
<td>GBM-Mitgliederversammlung</td>
</tr>
<tr>
<td>March 23</td>
<td>12:00 - 14:30</td>
<td>Malzboden</td>
<td>Sitzung: Arbeitskreis „Biochemie in der Medizin“</td>
</tr>
<tr>
<td>March 23</td>
<td>19:00 - 21:00</td>
<td>Lecture hall</td>
<td>Vollversammlung: junior GBM</td>
</tr>
</tbody>
</table>
Registration

An onsite registration is possible. Please ask at the registration desk during the opening hours.

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member* academia</td>
<td>250 €</td>
</tr>
<tr>
<td>Non-member academia</td>
<td>340 €</td>
</tr>
<tr>
<td>Member* Master student</td>
<td>50 €</td>
</tr>
<tr>
<td>Non-member Master student</td>
<td>75 €</td>
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<tr>
<td>Member* PhD student</td>
<td>100 €</td>
</tr>
<tr>
<td>Non-member PhD student</td>
<td>125 €</td>
</tr>
<tr>
<td>Member* retiree</td>
<td>120 €</td>
</tr>
<tr>
<td>Non-members retiree</td>
<td>170 €</td>
</tr>
</tbody>
</table>

*Member of the GBM, VAAM, DGZ, Dechema, GDCh, Bunsen Society

Conference office

Telephone and Fax numbers during the Kolloquium:

Phone   +49 (0) 6261 9292-78
Fax      +49 (0) 6261 9292-79
Email    info@mosbacher-kolloquium.org

<table>
<thead>
<tr>
<th>Days</th>
<th>Opening hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed., March 21</td>
<td>17:00 - 19:45</td>
</tr>
<tr>
<td>Thu., March 22</td>
<td>08:00 - 16:30</td>
</tr>
<tr>
<td>Fri., March 23</td>
<td>08:00 - 16:30</td>
</tr>
<tr>
<td>Sat., March 24</td>
<td>08:30 - 11:00</td>
</tr>
</tbody>
</table>
Internet

There will be two wireless LAN access points in the foyer next to the registration desk.

SSID: GBM  Key: gbm-online  
(WPA2 encrypted)
SSID: AM  Username: gbm  
(unencrypted)  Password: gbm-online

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 city of Mosbach.

Proceedings

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

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

Abstracts

All poster abstracts and the abstracts of the talks are available as pdf file for download on the meeting homepage.

A printed abstract booklet is available for viewing purposes at the registration desk.
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 convenient 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.

The congress center is located above the old city centre. When arriving by car, please follow the yellow signs to parking areas P5 „Alte Mälzerei“ or P6 „Altstadt“.

Address:  
Alte Mälzerei  
Alte Bergsteige 7  
74821 Mosbach
Posters

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

Poster sessions
Thursday, 13:00 - 14:30 - even numbers
Thursday, 20:15 - 21:30 - all numbers
Friday, 13:00 - 14:30 - uneven numbers

During the poster sessions the presenting authors are requested to stay near their posters. Posters should be presented throughout the whole meeting.

Poster numbers
Please see the poster list on page 34 for poster numbers.

Poster prizes
The best three posters will be awarded (with certificate and 300 €).

Furthermore ChemBioChem will provide a poster prize honored with a book token.

The winners will be announced at the end of the kolloquium on Saturday. To receive the price, personal attendance is required.
Thank you for your kind support!

Please visit the booths of our partners!
1 Oberer Torturm
2 Haus Kickelhain
3 Altes Hospital
3a Scharfrichter-Haus
4 Palm’sches Haus
5 Rathaus
6 Salzhaus
7 Synagogenplatz
8 Altenzentrum Pfalzgrafenstift
9 Mosbacher Schloss
10 Kandel
11 Kiwelschisserbrunnen
12 Stiftskirche

i Conference venue/Alte Mälzerei
ii Welcome reception/city hall
iii Hotel „Zum Amtsstüble“
Alter, Tobias B.  (EG 3)
Determination of growth-coupling strategies and their underlying principles

Anan Jalan, Abhishek (OT 9)
Investigations into the Folding Mechanism and Conformational Dynamics of a Chimeric Protein

Baumschlager, Armin (NC 8)
Dynamic Blue Light-Inducible T7 RNA Polymerases (Opto-T7RNAPs) for Precise Spatiotemporal Gene Expression Control

Benzinger, Dirk (AR 13)
Interrogating and tuning stochastic gene expression by optogenetic transcription factor control

Born, Johannes (EG 13)
Tetracycline-regulated gene expression in Haloarchaea

Braß, Hannah (BM 6)
Creating Diversity in Prodiginines – Synthetic Biology meets Chemistry

Brechun, Katherine (OT 1)
A Bacterial Bandpass Assay for Protein-Protein Interactions

Brylski, Oliver (OT 4)
Co-factor binding of PAPSS2 APS kinase compensates destabilizing effects of the cellular environment

Cavallari, Marco (BM 19)
Measuring beyond the resolution of light with the branched proximity hybridization assay

Dergai, Oleksandr (OT 10)
Mechanisms of selective recruitment of RNA polymerases II and III to snRNA gene promoters

Diemer, Jascha (AR 18)
ROC’n’Ribo: Characterizing a riboswitching expression system by modeling single-cell data

Diemer, Jascha (OT 8)
Inducible Transcription dynamic for single cell studies on cellular heterogeneity
Dippe, Martin (BM 4)
Biosynthetic access to regioselectively methoxylated flavor compounds

Dombrowsky, Maximilian (AR 22)
streaMD: Novel computational methods for synthetic biology

Dziuba, Marina (BM 29)
Towards Engineering Of Magnetic Nanostructures In Bacteria By Synthetic Biology

Ebert, Antje (BM 15)
Genomic Correction of Mutations in Contractile Proteins for Precision Medicine

Ebert, Birgitta E. (BM 7)
Cyclic triterpenoid production with tailored Saccharomyces cerevisiae

Fleischer, Raluca (BM 10)
Engineering of fluorescence complementation assay vectors and customized cell lines

Frei, Timothy (EG 1)
A framework for high-resolution characterization of synthetic biological parts

Fritz, Georg (EG 4)
Engineering orthogonal synthetic timer circuits in bacteria

Garcia-Soriano, Daniela (CS 5)
Study of FtsZ in cell-like microenvironments

Gebauer, Jan (BM 14)
Flavin-dependent Halogenases for the Enzymatic Halogenation in Organic Synthesis

Gelfert, Renate (EG 10)
Optimization and Application of a light-switchable Cas9 variant

Gesing, Katrin (BM 23)
Semi-rational protein engineering to improve the activity of surface displayed exocellulase CelK

Giessmann, Robert T. (AR 10)
Improvement of a toolkit for characterization of non-canonical amino acid incorporation systems
Girr, Philipp (BM 2)  
Bacteriochlorophyll bound to water-soluble chlorophyll protein: a potential photosensitizer for photodynamic therapy

Glock, Philipp (AR 17)  
Rebuilding pattern formation in a simplified Min system

Grininger, Martin (BM 9)  
Engineering fatty acid synthases (FAS) for custom compound synthesis

Groher, Florian (BM 26)  
Targeting the bottleneck – new methods to develop biosensors

Harder, Björn-Johannes (BM 27)  
Temperature-dependent dynamic control of the TCA cycle for increased volumetric productivity of itaconic acid production by Escherichia coli

Harrington, Leon (AR 23)  
Switching de novo coiled coils at membranes

Heermann, Tamara (AR 12)  
In vitro characterization of molecular processes underlying MinD membrane interaction

Hilgers, Fabiene (BM 1)  
(Opto)genetic control of microbial cell factories for an efficient production of valuable secondary metabolites

Höbenreich, Sabrina (BM 11)  
Engineering the Substrate Scope of a Fe(II)-dependent Halogenase

Hochrein, Lena (EG 5)  
Establishment of optogenetic tools for the control of gene expression and recombination in Saccharomyces cerevisiae

Hofmann, Anja (EG 9)  
Multiple genetic circuits in the yeast S. cerevisiae for tight regulation of gene expression
Hörner, Maximilian (AR 14)
Investigating mechanosignaling by utilizing intra- and extra-cellular optogenetic switches

Jia, Haiyang (CS 4)
Spatiotemporal regulation toolbox for cell free synthetic biology

Jung, Fabian (BM 3)
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69. Mosbacher Kolloquium

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