



Feb 13-16th, 2013

Symposium: Molecular machines in RNA processing, translation and transport

Max-Planck-Institute for Biophysical Chemistry, Am Faßberg 11, 37077 Göttingen



SFB860

Wednesday, Feb. 13

16:00 – 18:00 *Registration*

Session I (Chairperson: Ralf Ficner)

17:30 - 18:15 **Tim Nilsen (Cleveland, USA)**
Stable Translating Deadenylated mRNAs In Drosophila S2 Cells

18:15 - 18:35 **Laurent Larivière (München)**
Structure of the Mediator head module

18:35 – 19:20 **Karl-Peter Hopfner (München)**
Innate immune sensing of viral RNA by RIG-I like receptors

19:30 *Dinner*



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Thursday, Feb. 14

08:30 – 11:00 *Registration*

Session II (Chairperson: Jörg Stülke)

09:00 - 09:45 **Dagmar Klostermeier (Münster)**
*Nucleic acid unwinding by SF2 helicase modules:
A common theme and its variations*

09:45 - 10:05 **Debora Makino (Martinsried)**
The Crystal Structure of a Yeast 11-Subunit Exosome Complex Bound to RNA

10:05 - 10:50 **Eckhard Jankowsky (Ohio, USA)**
*How RNA helicase and poly(A) polymerase regulate each other
in the TRAMP complex*

10:50 – 11:20 *Coffee Break*

Session III (Chairperson: Jörg Enderlein)

11:20 - 12:05 **David Lilley (Dundee, UK)**
k-turns in RNA : architecture and folding

12:05 - 12:50 **Marat Yusupov (Strasbourg)**
*From crystallization of bacterial ribosome to structure determination
of eukaryotic ribosome*

13:15 – 14:15 *Lunch*

13:30 – 15:00 *Registration*

Session IV (Chairperson: Marina Rodnina)

14:30 - 14:50 **Wolf Holtkamp (Göttingen)**
*GTP hydrolysis by EF-G synchronizes tRNA translocation on small and large
ribosomal subunits*

14:50 - 15:10 **Niels Fischer (Göttingen)**
*Cryo-EM structure of the SelB-Sec-tRNA^{Sec}- ribosome complex
at 6 Å resolution*

15:10 - 15:55 **Charalampos Kalodimos (Piscataway, USA)**
*Structural basis for the progressive binding
of nascent polypeptide chains by the trigger factor chaperone*

16:00 – 16:30 *Coffee Break*

16:30 – 18:30 *Poster Session*

18:30 *Dinner*



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Friday, Feb. 15

08:30 – 09:30 *Registration*

Session V Session IV (Chairperson: Markus Zweckstetter)

- 09:00 - 09:45 **Frederic Allain (Zürich)**
Splicing and translation regulation by small RNA binding protein
- 09:45 - 10:05 **Thorsten Stafforst (Tübingen)**
Engineering guide-RNA-dependent Deaminases to selectively introduce point mutations into mRNA
- 10:05 - 10:50 **Utz Fischer (Würzburg)**
Structural insights into the assembly of RNA-protein complexes
- 10:50 – 11:20 *Coffee Break*

Session VI Session IV (Chairperson: Henning Urlaub)

- 11:20 - 12:05 **Jean Beggs (Edinburgh, UK)**
Cwc21p regulates intron branch site usage in splicing
- 12:05 - 12:25 **Jean-Baptiste Fourmann (Göttingen)**
Dissection of the factor requirements for spliceosome disassembly and the elucidation of its dissociation products using a purified splicing system
- 12:25 - 13:10 **Markus Wahl (Berlin)**
Regulation of the Brr2 RNP remodeling enzyme during snRNP and spliceosome assembly
- 13:15 – 14:15 *Lunch*
- 13:30 – 15:00 *Registration*

Session VII (Chairperson: Reinhard Lührmann)

- 14:30 - 15:15 **Doug Black (Los Angeles, USA)**
Mechanisms of Splicing Regulation
- 15:15 - 16:00 **Michael Sattler (München)**
Molecular recognition and dynamics in splicing regulation
- 16:00 - 16:45 **Janusz Bujnicki (Warsaw)**
Structural bioinformatics of the spliceosome
- 16:50 – 17:00 *Coffee Break*
- 17:00 – 19:00 *Poster Session*
- 19:00 *Dinner*



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Saturday, Feb. 16

08:30 – 09:30 *Registration*

Session VIII (Chairperson: Holger Stark)

09:00 - 09:45 **Oscar Llorca (Madrid)**
Transient geometries in nonsense-mediated mRNA decay (NMD) visualized by cryo-EM

09:45 - 10:30 **Elisa Izaurralde (Tübingen)**
mRNA quality control: protecting cells from aberrant mRNA function

10:30 – 11:00 *Coffee Break*

Session IX (Chairperson: Ralf Ficner)

11:00 - 11:20 **Florian Heyd (Marburg)**
Rhythmic U2AF26 alternative splicing regulates the circadian clock in mice

11:20 - 12:05 **Ed Hurt (Heidelberg)**
Structural and functional analyses of ribosome assembly

12:10 – 13:10 *Lunch*

13:10 *End of the Symposium*