

## Conference Programme

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### Sunday 22 February

- 16:30 - 17:30 **Registration (Conference room lobby)**
- 17:45 - 18:00 **Opening Remarks**
- 18:00 - 19:25 **Session 1**
- 18:00 **Tom Steitz**  
*TBC*
- 18:45 **Eckhard Jankowsky**  
*ATP utilization by DEAD-box RNA "helicases"*
- 19:05 **Yamuna Krishnan**  
*Wires, Reporters and Information Capsules: Cellular Journalism with DNA*
- 19:25 **Group dinner reception**
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### Monday 23 February

- 08:30 - 10:15 **Session 2**
- 08:30 **Joseph Piccirilli**  
*TBC*
- 09:15 **Jean-Marc Escudier**  
*Constrained Nucleic Acid*
- 09:35 **Victoria DeRose**  
*RNA as a target for Pt drugs*
- 09:55 **Michael Harris**  
*Transition state analyses of solution and enzyme-catalyzed 2'-O-transphosphorylation reactions of RNA by <sup>18</sup>O/<sup>16</sup>O kinetic isotope effects*
- 10:15 - 10:45 **Informal discussion and refreshments**
- 10:45 - 12:30 **Session 3**
- 10:45 **Jon Widom**  
*The Genomic Code for Nucleosome Positioning*
- 11:30 **Roland Krämer**  
*Controlling the structure and function of modified nucleic acids by metal ions*
- 11:50 **Marc Le Bret**  
*Puckering of modified nucleosides inserted in double helices*
- 12:10 **Carl Correll**  
*RNA Chaperone activity in Ribosome Biogenesis*
- 12:30 - 13:30 **Group lunch**

- 16:00 - 17:45    Session 4**
- 16:00    Scott Strobel**  
*Ribozyme mechanisms*
- 16:45    Peter Cornish**  
*Spontaneous Intersubunit Rotation in Single Ribosomes*
- 17:05    Marcus Wilhelmsson**  
*Development of a Nucleic Acid Base Analog FRET-pair*
- 17:25    Anita Jones**  
*Probing DNA Conformation and DNA-Enzyme Interaction by Time-Resolved Fluorescence*
- 17:45 - 19:30    Poster Session**
- 19:30        Dinner**

## Tuesday 24 February

- 08:30 - 10:15    Session 5**
- 08:30    David Lilley**  
*Structure and Mechanism of the Varkud Satellite Ribozyme*
- 09:15    David Perrin**  
*RNaseA-like DNazymes and Chemical Probing of Ribozyme/DNAzyme Cleavage of RNA*
- 09:35    Fereshteh Jahaniani Kenari**  
*Induction of neuronal differentiation and stress resistance by a large RNA*
- 09:55    Zhen Huang**  
*Chemogenetic Investigation of Nucleic Acid Structures and Functions via Atom-specific Substitution of Oxygen with Selenium*
- 10:15 - 10:45    Informal discussion and refreshments**
- 10:45 - 12:30    Session 6**
- 10:45    Daniel Herschlag**  
*Force and Form in RNA Folding*
- 11:30    Luke Ward**  
*Investigating Divalent Metal Interactions in the Active Site of a Native Hammerhead Ribozyme Derived from Schistosoma*
- 11:50    Geoff Baldwin**  
*DNA double helices recognize mutual sequence homology in a protein free environment*
- 12:10    Darrin York**  
*Molecular simulations of ribozyme catalysis*
- 12:30 - 13:30    Group lunch**

- 17:30 - 19:15      Session 7**
- 17:30      Marina Rodnina**  
*Kinetics of mRNA Selection by the Ribosome*
- 18:15      **Amanda Chadee****  
*Thermodynamic and kinetic effects of a protein co-factor on folding and misfolding of a group I ribozyme*
- 18:35      **Wolfgang Wintermeyer****  
*Distinct functions of elongation factor G in ribosome recycling and translocation*
- 18:55      **John Rossi****  
*A role for the Dicer helicase domain in the processing of thermodynamically unstable hairpin RNAs*
- 19:15      **Group dinner****
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## Wednesday 25 February

- 08:30 - 10:15      Session 8**
- 08:30      Ronald Breaker**  
*Discovery and Analysis of Structured RNA Domains that Control Alternative Splicing*
- 09:15      **Anh Tuan Phan****  
*G-quadruplex structures of human telomeric DNA and RNA*
- 09:35      **Philipp Holliger****  
*Synthesis and replication of nucleic acids with expanded chemistry*
- 09:55      **David Rueda****  
*Laser Assisted Single Molecule Refolding*
- 10:15 - 10:45      **Informal discussion and refreshments****
- 10:45 - 12:40      Session 9**
- 10:45      Robert Batey**  
*Structural insights into metabolite-sensing mRNAs*
- 11:30      **Panos Soultanas****  
*DnaD- mediated remodelling of DNA*
- 11:50      **Anthony Bugaut****  
*Translation regulation by G-quadruplex-forming sequences within the 5' UTRs of mRNAs.*
- 12:10      **Scott Blanchard****  
*TBC*
- 12:30      **Closing Comments****
- 12:40      **Group lunch and departure****
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