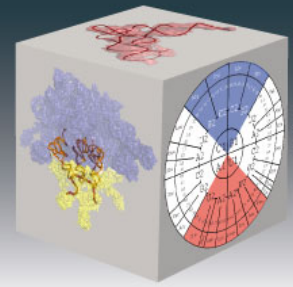


Genetic code: Mechanisms, Evolution and Challenges



26-28 March 2020, Strasbourg (France)

Centre culturel Saint Thomas, Strasbourg

Conference PROGRAM

Thursday, March 26

13:00 - 14:00

Arrival and Welcome coffee

14:00 - 14:15

Congress opening - Welcome address from the organizers

Session 1: Ribosome Structures and Decoding

Chair: Jean-Paul Renaud (Strasbourg, France)

14:15 - 14:45

Marina Rodnina (Göttingen, Germany) - The EMBO Keynote Lecture
Decoding and recoding of genetic information by the ribosome

14:45 - 15:15

Daniel Wilson (Hamburg, Germany)
Rescue of ribosomes trapped on mRNAs without a stop codon

15:15 - 15:45

Eric Westhof (Strasbourg, France)
tRNA modifications in decoding: how to choose between two constraints

15:45 - 16:15

Coffee break

16:15 - 16:30

Talk 1 selected from abstracts

16:30 - 16:45

Talk 2 selected from abstracts

16:45 - 17:00

Talk 3 selected from abstracts

17:00 - 17:15

Talk 4 selected from abstracts

17:15 - 17:45

Sebastian Leidel (Bern, Switzerland)
Tuning translation by (RNA) modifications

17:45 - 18:15

Orna Dahan (Rehovot, Israel)
An interplay between the tRNA and mRNA pools affect translation efficiency and accuracy

18:30	Dinner
20:00 - 20:30	Young scientist session Chair: Bojan Zagrovic (Vienna, Austria) <i>Echoes from the past: RNA-protein interactions and the structure of the genetic code</i>
20:30 - 20:45	Talk 5 selected from abstracts
20:45 – 21:00	Talk 6 selected from abstracts
21:00 - 23:00	Poster session

Friday, March 27

Session 2: Translational Variations and Miscoding

Chair: Pascale Romby (Strasbourg, France)

9:00 - 9:30	Zoya Ignatova (Hamburg, Germany)– The French-German University (UFA) Keynote Lecture <i>Probing dimensionality beyond the linear sequence of mRNA</i>
9:30 - 10:00	Olivier Namy (Paris, France) <i>Stop codon readthrough as a tool to study the importance of tRNA modifications during decoding by near-cognate tRNAs</i>
10:00 - 10:30	Coffee break
10:30 - 10:45	Talk 1 selected from abstracts
10:45 - 11:00	Talk 2 selected from abstracts
11:00 - 11:30	Ann Ehrenhofer-Murray (Berlin, Germany) <i>Queuosine tRNA modification and translational control in eukaryotes</i>
12:00 - 14:00	Lunch

Session 3: Evolution and Code Optimization

Chair: Laurence Drouard (Strasbourg, France)

14:00 - 14:30	Barbara Nawrot (Łódz, Poland) - FEBS National Lecture <i>Another level of epitranscriptomics - how sulfur and selenium modified uridines in tRNA anticodons recognize A and G units in mRNA codons</i>
14:30 – 15:00	Bernd Moosmann (Mainz, Germany) <i>Methionine: Key substrate and regulator of mitochondrial translation controlling metabolic health</i>
15:00 – 15:30	Pierre Close (Liège, Belgium) <i>Codon-specific mRNA translation regulation through wobble tRNA modification in cancer</i>

15:30 - 16:00	Coffee break
16:00 - 16:15	Odil Porrua - Prix Maurice Nicloux 2019 lecture <i>Transcription termination: an essential process for the maintenance of transcriptome identity and integrity</i>
16:15 - 16:30	Talk 3 selected from abstracts
16:30 - 16:45	Talk 4 selected from abstracts
16:45 - 17:00	Talk 5 selected from abstracts
17:00 – 17:30	Juliette Godin (Strasbourg, France) <i>Modifying tRNAs: a key process to regulate brain development?</i>
17:30 – 18:00	Franck Martin - Jean-Pierre EBEL Keynote lecture <i>The nature of the purine at position 34 of tRNAs is correlated with the nucleotides at positions 32 and 38 to maintain decoding fidelity</i>
18:30	Dinner
20:00 - 20:30	Young scientist session Chair: Mark Helm (Mainz, Germany) <i>Natural product chemistry on a tRNA scaffold</i>
20:30 - 20:45	Talk 6 selected from abstracts
20:45 – 21:00	Talk 7 selected from abstracts
21:00 - 23:00	Poster session

Saturday, March 28

Session 4: Ribosome Engineering and Code Expansion

Chair: Bernard Dujon (Paris, France)

9:00 - 9:30	Valérie de Crécy-Lagard (Gainesville, USA) - IUBMB Jubilee Lecture <i>Synthesis and function of tRNA modifications</i>
9:30 - 10:00	Joseph Moran (Strasbourg, France) <i>Linked chemical evolution of metabolism, RNA and the genetic code</i>
10:00 - 10:30	Coffee break
10:30 - 10:45	Talk 1 selected from abstracts
10:45 - 11:00	Talk 2 selected from abstracts
11:00 - 11:30	Philippe Marlière (Paris, France) <i>Chemical evolution of genetic translation</i>
11:30 – 11:45	Best poster/communication awards and closing remarks
12:00 - 14:00	Lunch
End of meeting	