

June 12th, 2025 • Small nucleolar RNAs •

- 8.30 AM Registration and Welcome Coffee
- 9 AM **Welcome and Introduction** Lorenzo Montanaro (University of Bologna, Italy) Sherif Abou Elela (Université de Sherbrooke, Canada)

SESSION 1

Moderator – Sherif Abou Elela (Université de Sherbrooke, Canada) Methods for Detecting and Characterizing snoRNA

- 9.20 AM Introduction by Session Chair Katherine Bohnsack (University of Göttingen, Germany)
- 9.35 AM **Toward Reliable snoRNA Quantification:** Benchmarking Reverse Transcriptases and Methodological Controls Sherif Abou Elela (Université de Sherbrooke, Canada)
- 9.45 AM snoRNAs or snoRTs: how can we accurately quantify them? Giulia Venturi (University of Bologna, Italy)
- 9.55 AM **Expanding the Capabilities of snoRNA Detection and Modification Profiling with NERD-seq** Athanasios Zovoilis (University of Manitoba, Lethbridge, Canada)
- 10.05 AM Panel Discussion and Conclusion
- 10.20 AM Coffee Break

SESSION 2

Moderator – Michelle Scott (Université de Sherbrooke, Canada) Databases, Classification, and Validation of snoRNA

- 10.50 AM Introduction by Session Chair Blake Sweeney (EMBL-EBI, UK)
- 10.55 AM Nomenclature issues from the perspective of RNAcentral and Rfam Blake Sweeney, (EMBL-EBI, UK)
- 11.05 AM Annotating snoRNAs in GENCODE Zoe Hollis (EMBL-EBI, UK)
- 11.15 AM **Identification of rRNA modifications and their corresponding snoRNAs in Drosophila melanogaster** Jean-Yves Roignant (University of Lausanne, Switzerland)

- 11.25 AM **Comprehensive Annotation and Expression Dynamics of the Zebrafish snoRNAome** Renata Hamar (Eötvös Loránd University, Budapest, Hungary)
- 11.35 AM Nomenclature and annotations to facilitate the study of snoRNAs eukaryote-wide Michelle Scott (Université de Sherbrooke, Canada)
- 11.45 AM Panel Discussion and Conclusion

SESSION 3

Moderator – Davide Ruggero (University of California, San Francisco) Methods for Functional Analysis of snoRNAs and rRNA modifications

- 12 PM Introduction by Session Chair Carsten Müller-Tidow (Heidelberg University Hospital, Germany)
- 12.05 PM **Assigning functions to ribosomal 2'-O-methylations** Anders Lund (University of Copenhagen, Denmark)
- 12.15 PM An Unexpectedly Large Repertoire of Box C/D Small RNAs Revealed in Mouse Tissues Jérôme Cavaillé (CNRS, Toulouse, France)
- 12.25 PM **Decoding specialized ribosomes: challenges** in functional validation of rRNA modifications Mie Monti (Centre for Genomic Regulation – CRG, Barcelona, Spain)
- 12.35 PM Panel Discussion and Conclusion
- 12.50 PM Lunch Break

2 PM TOPIC DISCUSSIONS

- snoRNA Detection Workshop and Development of Recommendations Sherif Abou Elela, Michelle Scott
- snoRNA Nomenclature, Cross-Species Comparison, and annotation Michelle Scott, Blake Sweeney
- Standardization of Methods for Studying Functions of snoRNA Carsten Müller-Tidow, Davide Ruggero
- 4 PM **POSTER SESSION** / Coffee break
- 7.45 PM Guided Tour / Walk Meeting point: ▼ Piazza Maggiore, Fountain of Neptune

- June 13th, 2025
 Ribosomal RNAs
- 8.30 AM Welcome Coffee

SESSION 4

Moderators -

Katherine Bohnsack (University of Göttingen, Germany), Virginie Marcel (Cancer Research Center of Lyon, France) **Methods for Detecting and Quantifying Ribosomal RNA Modifications**

- 9 AM Introduction by Session Chair Denis L.J. Lafontaine (Université libre de Bruxelles, Belgium)
- 9.05 AM First generation sequencing-based methods for RNA-guided rRNA modifications Henrik Nielsen (University of Copenhagen, Denmark)
- 9.15 AM LC-MS based quantification of modified ribonucleosides: an effort towards global harmonization of protocols and standards Mark Helm (Johannes Gutenberg University of Mainz, Germany)
- 9.25 AM **Decoding the rRNA modification landscape using native RNA nanopore sequencing** Eva Novoa (Centre for Genomic Regulation – CRG, Barcelona, Spain)
- 9.35 AM Sci-ModoM: roadmap to facilitate access to and sharing of high-throughput transcriptome-wide RNA modification data, to harmonize data exchange formats and interoperability standards Etienne Boileau (Heidelberg University Hospital, Germany)
- 9.45 AM Computational limitations and future needs to unravel the full potential of 2'-O-Methylation and C/D Box snoRNAs Christian Ramirez (Università degli Studi di Trento, Italy)
- 9.55 AM Panel Discussion and Conclusion
- 10.10 AM Coffee Break

SESSION 5

Moderator – Lorenzo Montanaro (University of Bologna, Italy) Methods for Assaying the Function of Ribosomal RNA Modifications

- 10.40 AM Introduction by Session Chair Marianna Penzo (University of Bologna, Italy)
- 8.30 PM Dinner / Party ▼ Palazzo Isolani, Via Santo Stefano 16

- 10.45 AM **Cell-free translation assays: corner-stone approaches to explore ribosome-based translation regulation** Marianna Penzo (University of Bologna, Italy)
- 10.55 AM **rRNA Chemical Modifications as Dynamic Translational Regulators in Cancer and Chemoresistance** Jean-Jacques Diaz (Cancer Research Center of Lyon, France)
- 11.05 AM Workflows and methods for assessing impact of dynamic rRNA 2'-O-methylations on translation and cell phenotypes Martin Jansson (University of Copenhagen, Denmark)
- 11.15 AM Challenges in Linking snoRNA-Guided rRNA Modifications to Translation Regulation Laurence Faucher-Giguere (Université de Sherbrooke, Canada)
- 11.25 AM Uncovering the impact of snoRNA-guided rRNA modification heterogeneity in a model of non-small cell lung cancer invasion Sarah Webster (Emory University, Atlanta, Georgia, USA)
- 11.35 AM Panel Discussion and Conclusion

SESSION 6

Moderators -

Homa Ghalei (Emory University, Atlanta, Georgia, USA), Denis L.J. Lafontaine (Université libre de Bruxelles, Belgium) Methods and Approaches for Identifying RNA Binding by snoRNAs

- 11.50 AM **Introduction by Session Chair** Ute Kothe (University of Manitoba, Lethbridge, Canada)
- 11.55 AM **Discriminating Between Catalytic and Non-Catalytic Functions of snoRNPs** Brigitte Pertschy (University of Graz, Austria)
- 12.05 PM **RNA binding by H/ACA snoRNPs near-cognate** interactions beyond pseudouridine formation Ute Kothe (University of Manitoba, Lethbridge, Canada)
- 12.15 PM **H/ACA snR30 snoRNP guides independent 18S rRNA subdomain formation** Matthias Thoms (Ludwig Maximilian University of Munich, Germany)
- 12.25 PM Mapping RBP-specific snoRNA interactions with chimeric eCLIP Eric Van Nostrand (Baylor University, Waco, Texas, USA)

- 12.35 PM Panel Discussion and Conclusion
- 12.50 PM Lunch Break

2 PM TOPIC DISCUSSIONS

- Development of Methods for Standardizing Modification Detection and Quantification Methods Katherine Bohnsack, Virginie Marcel, Denis L.J. Lafontaine
- Tools and Approaches for Systematic Identification of snoRNAs for rRNA Modifications Homa Ghalei, Denis L.J. Lafontaine, Ute Kothe
- Standardization of Inhibiting and Studying the Effect of Ribosomal rRNA Modification Lorenzo Montanaro, Marianna Penzo
- 4 PM Coffee Break
- 5 PM GENERAL ROUND TABLE Presentation of Recommendations and Reaching Consensus
- 6 PM CEREMONY AWARD
- 6.15 Concluding Remarks and Planning for Manuscript Publishing a Guideline for the Study of Ribosomal RNA Modifications and snoRNAs

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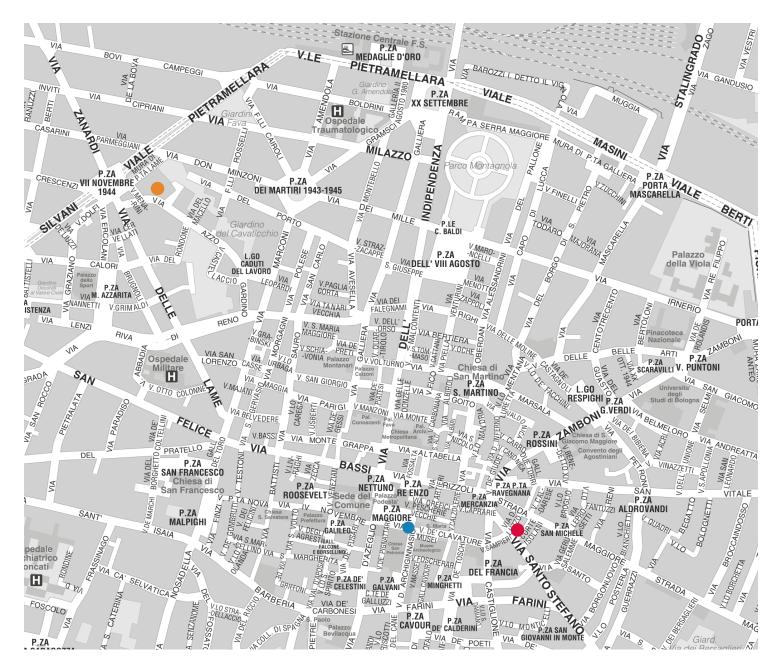




ORGANIZING SECRETARIAT

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VENUES

WEBSITE

DAMSLab – Piazzetta P.P. Pasolini 5b

- Piazza Maggiore
- Palazzo Isolani Via Santo Stefano 16

events.unibo.it/ribomod2025

