

Dagstuhl Seminar 24491

“Deep Learning for RNA Regulation and Multidimensional Transcriptomics”

Monday, 2 December

Session 1 – Long-read RNA sequencing

09:00 – 09:10	Welcome	
09:05 – 09:40	Hagen Tilgner	Weill Cornell Medicine - New York, US
09:40 – 10:15	Eduardo Eyras	Australian National University - Canberra, AU

10:15 – 10:45 *Coffee break*

10:45 – 11:20	Jonathan Göke	Genome Institute of Singapore, SG
11:20 – 11:55	Barbara Uszczyńska- Ratajczak	Polish Academy of Sciences - Poznan, PL

11:55 – 12:20 Joint discussion

12:20 – 13:30 Lunch

Session 2 – RNA stability and modifications

13:30 – 14:05	Julian König	University of Würzburg, DE
14:05 – 14:40	Liana Lareau	University of California - Berkeley, US
14:40 – 15:15	Florian Erhard	Universität of Regensburg, DE

15:15 – 15:45 *Coffee break*

15:45 – 16:20	Michal Rabani	The Hebrew University of Jerusalem, IL
16:20 – 16:55	Yaron Ohrenstein	Bar-Ilan University - Ramat-Gan, IL
16:55 – 17:30	Kathi Zarnack	University of Würzburg, DE

17:30 – 18:00 Joint discussion

18:15 – 19:45 Dinner

20:00 – 21:00 Discussion – Computing infrastructure in the academia and industry

Tuesday, 3 December

Session 3 – Noncoding RNAs

09:00 – 09:35	Jin-Wu Nam	Hanyang University - Seoul, KR
09:35 – 10:10	Yael Mandel- Gutfreund	Technion - Haifa, IL

10:10 – 10:40 *Coffee break*

10:40 – 11:15	Evgenia Ntini	FORTH - Heraklion, GR
11:15 – 11:50	Igor Ulitsky	Weizmann Institute - Rehovot, IL

11:50 – 12:20 Joint discussion

12:20 – 13:30 Lunch

Session 4 – RNA-binding proteins

13:30 – 14:05	Rolf Backofen	Universität of Freiburg, DE
14:05 – 14:40	Jernej Ule	UK Dementia Research Institute at King's - London, GB
14:40 – 15:15	Annalisa Marsico	Helmholtz Zentrum München, DE

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15:15 – 15:45 *Coffee break*

Session 8 – Foundational models for RNA

15:45 – 16:20 Marko Jovanovic Columbia University, U
16:20 – 16:55 Uwe Ohler Max-Delbrück-Centrum - Berlin, DE
16:55 – 17:30 Julien Gagneur TU München - Garching, DE

17:30 – 18:00 Joint discussion

18:00 – 19:30 Dinner

Evening session

19:30 – 20:05 Martin Lewinski Universität Bielefeld, DE
20:05 – 20:25 Charlotte Capitanchik The Francis Crick Institute – London, UK (Short talk)
20:30 – 21:30 Joint discussion and cheese

Wednesday, 4 December

Session 5 – Single-cell RNA sequencing

09:00 – 09:35 Jan Philipp Junker Max-Delbrück-Centrum - Berlin, DE
09:35 – 10:10 Gioele La Manno École Polytechnique Fédérale de Lausanne, CH
10:10 – 10:40 *Coffee break*
10:40 – 11:15 Mo Lotfollahi Wellcome Sanger Institute - Cambridge, GB
11:15 – 11:50 Markus Landthaler Max-Delbrück-Centrum - Berlin, DE

11:50 – 12:15 Joint discussion

12:15 – 13:30 Lunch

Afternoon outing – Trier visit

Thursday, 5 December

Session 6 – Translation

09:00 – 09:35 Christoph Dieterich Universitätsklinikum Heidelberg, DE
09:35 – 10:10 Alexander Sasse University of Heidelberg, DE
10:10 – 10:40 *Coffee break*
10:40 – 11:15 Mathieu Blanchette McGill University - Montréal, CA
11:15 – 11:50 Pavel Baranov University College Cork, IE

11:50 – 12:15 Joint discussion

12:15 – 13:30 Lunch

Session 7 – RNA in disease & RNA therapeutics

13:30 – 14:05 Li Yang Fudan University - Shanghai, CN
14:05 – 14:40 Chris Hart Creyon Bio - Carlsbad, US
14:40 – 15:15 Miguel Ángel Manzanares Serrano Envisagenics - New York, US

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15:15 – 15:45 *Coffee break*

15:45 – 16:20 Claudia Kutter Karolinska Institute - Stockholm, SE

16:20 – 16:55 Katie Rothamel University of California - San Diego, US

16:55 – 17:30 Jianyang Zeng Westlake University - Hangzhou, CN

17:30 – 18:00 Joint discussion

18:00 – 19:45 Dinner

20:00 – 21:00 Discussion – Deep learning for RNA biology

Friday, 6 December

Session 8 – Future directions

09:00 – 10:15 Open discussions

10:15 – 10:45 *Coffee break*

10:45 – 11:15 Open discussions

11:15 – 11:45 Concluding remarks

12:00 Lunch & departure