

Non-coding RNA in health and disease

RESCHEDULED

September

08 2020

A joint meeting of the
Belgian Society for Cell
and Developmental
Biology (BSCDB) and the
Namur Research
Institute for Life Sciences
(NARILIS)



Université de Namur, Pedro Arrupe PAo2

Keynote speakers

Prof. Nikolaus RAJEWSKY

Laboratory for Systems Biology of Gene Regulatory Elements,
Max Delbrück Center for Molecular Medicine, Berlin

Dr. Sébastien PFEFFER

Architecture and Reactivity of RNA, Université de Strasbourg

Dr. Julieta APREA PEREZ

Center for Regenerative Therapies, Technische Universität
Dresden

Prof. Eleonora LEUCCI

Laboratory for RNA Cancer Biology, KU Leuven

Dr. Pierre CLOSE

Laboratory of Cancer Signaling, GIGA-Stem Cells, ULiège

Prof. Pieter MESTDAGH

Bioinformatics and Functional Genomics Lab, UGent

More info on

www.narilis.be/noncodingrna

Deadline for registration:

August 15, 2020

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LA LIBERTÉ DE CHERCHER nanoString BIO-RAD

08:45 *Registration & Welcome coffee*

09:30 *Introduction to the Conference: Prof. Patsy Renard, UNamur*

09:35 **Organization of RNA in space and time**

Prof. Nikolaus RAJEWSKY, Laboratory for Systems Biology of Gene Regulatory Elements, Berlin Institute for Medical Systems Biology, Max Delbrück Center for Molecular Medicine in the Helmholtz Association, Berlin (Germany)

10:05 **Roles and regulation of non-coding RNAs in viral infections**

Dr. Sébastien PFEFFER, Architecture and Reactivity of RNA, Institut de Biologie Moléculaire et Cellulaire du CNRS, Université de Strasbourg (France)

10:35 **Understanding flavivirus pathogenesis: three-hybrid screening for host factors hijacked by viral non-coding RNA**

Sander JANSEN, Laboratory of Virology and Chemotherapy, Rega Institute, KU Leuven (Belgium)

10:50 *Coffee break*

11:20 **A non-coding compendium of brain development identifies B13, a novel long non-coding RNA with cell intrinsic and cell extrinsic roles in neuronal progenitor cell fate**

Dr. Julieta APREA PEREZ, Center for Regenerative Therapies, School of Medicine, Technische Universität Dresden (Germany)

11:50 **Exposure to ionizing radiation triggers prolonged changes in circular RNA abundance in the embryonic mouse brain and primary neurons**

Auchi INALEGWU, Radiobiology Unit, Belgian Nuclear Research Centre, SCK·CEN (Belgium)

12:05 **Accurate quantification of endogenous circular RNAs using NanoString technology** SPONSORED TALK

Dr. Lasse KRISTENSEN, Department of Molecular Biology and Genetics, Aarhus University (Denmark)

12:20 **New Bio-Rad long non-coding RNA qPCR workflow** SPONSORED TALK

Dr. Caroline WEYDERT, Bio-Rad (Belgium)

12:35 *Lunch & poster session*

13:50 **LncRNAs and beyond: uncoupling cytosolic and mitochondrial-translation as an effective anti-melanoma strategy**

Prof. Eleonora LEUCCI, Laboratory for RNA Cancer Biology, Department of Oncology, KU Leuven (Belgium)

14:20 **TRMT10A deficiency and tRNA fragmentation lead to mitochondrial dysfunction and β -cell demise in rare and common forms of diabetes**

Maria Nicol ARROYO, ULB Center for Diabetes Research, ULB (Belgium)

14:35 **Codon-specific translation regulation through tRNA modification in cancer**

Dr. Pierre CLOSE, Laboratory of Cancer Signaling, GIGA-Stem Cells, ULiège (Belgium)

15:05 *Coffee break*

15:35 **Endogenous RNAi pathway evolutionarily shapes the destiny of the antisense lncRNAs transcriptome**

Dr. Maxime WERY, ncRNA, epigenetic and genome fluidity, Institut Curie, Sorbonne Université, Paris (France)

15:50 **Expression of small nucleolar RNAs (D32A, D33, D35) associated with ageing and osteoarthritis in man and horses**

Dr. Fanny HONTOIR, Integrated Veterinary Research Unit, NARILIS, UNamur (Belgium)

16:05 **Unravelling the exosomal export of miR-503, a key modulator in resistance to chemotherapy in breast cancer cells**

Amandine BOECKX, Molecular Angiogenesis Laboratory, GIGA-Cancer, ULiège (Belgium)

16:20 **Non-coding RNAs as biomarkers & therapeutic targets**

Prof. Pieter MESTDAGH, Bioinformatics and Functional Genomics Lab, Cancer Research Institute Ghent, Center for Medical Genetics, UGent (Belgium)

16:50 *Concluding remarks & Awards: Prof. Charles Nicaise, UNamur*

17:00 *Drink*