

NON-CODING GENOME, February 5-12, 2016

Institut Curie - Training Unit - International Course

Friday, February 5

Pervasive transcription – High throughput sequencing

Chairs: Antonin Morillon
Marina Pinskaya

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|---------------|---|---|--|
| 13.00 - 13.30 | Registration | | BDD Hall - Institut Curie 11-13, rue P. et M. Curie 75005 - Paris |
| 13.30 – 14.00 | Antonin MORILLON Institut Curie, Paris, FRANCE | Welcome, practical aspects | Amphitheatre BDD |
| 14.00 – 15.00 | Howard Y. CHANG, Keynote Stanford University, Stanford, USA | Genome Regulation by Long Noncoding RNAs | |
| 15.00 – 15.30 | COFFEE BREAK | | BDD Hall |
| 15.30 – 16.30 | Nikolaus RAJEWSKY Berlin Institute for Medical Systems Biology, Berlin, GERMANY | Regulatory RNAs | Amphitheatre BDD |
| 16.30 – 17.00 | Participants | Self-presentation | |
| 17.00 – 18.00 | Maxime WERY Institut Curie, Paris, FRANCE | Nonsense-Mediated Decay restricts lncRNAs levels in yeast unless blocked by double-stranded RNA structure | |
| 18.00 – 20.00 | Welcome cocktail | | Chez Marie |

- Open conferences (in blue)

Saturday, February 6

Tutorials

Chair: Marina Pinskaya

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| 10.00 – 11.00 | Jurgi CAMBLONG Sophia genetics, Saint-Sulpice, Switzerland | Towards Data Driven Medicine | Amphitheatre BDD |
| 11.00 – 11.30 | COFFEE BREAK | | BDD Hall |
| 11.30 – 12.30 | Vassili SOUMELIS Institut Curie, Paris, FRANCE | Scientific integrity: how research can have a positive or negative impact | Amphitheatre BDD |

| Monday, February 8 | | Long non-coding RNAs | | Chairs: Antonin Morillon Marina Pinskaya |
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| 9.00 – 10.00 | CAPOZZO I, KARADOULAMA E, MOLSKA E, HAN Z, BAUCH S, AUGUSTIN J, ABELLO A, GIOFTSIDIS | ROUND TABLE: Long non-coding RNAs | | Amphitheatre BDD |
| 10.00 – 11.00 | Domenico LIBRI IJM, Paris, FRANCE | Transcription termination and the control of pervasive transcription | | |
| 11.00 – 11.30 | COFFEE BREAK | | BDD Hall | |
| 11.30 – 12.00 | Rob VOGELS & Raquel SILVA Chaired by Cecilie NANDRUP-BUS | Journal club: Smith et al., Cell Report 2014 | | Amphitheatre BDD |
| 12.00 – 13.00 | Julie AHRINGER University of Cambridge, Cambridge, UK | Using <i>C. elegans</i> to learn principles of eukaryotic chromatin regulation | | |
| 13.00 – 14.30 | LUNCH | | Green Café | |
| 14.30 – 15.00 | Ronan FLIPPOT & Susan SCHUSTER Chaired by Cecilie NANDRUP-BUS | Journal club: McHugh et al., Nature 2015 | | Amphitheatre BDD |
| 15.00 – 16.30 | Nicolas SERVANT & Sylvain BAULANDE Institut Curie, Paris, FRANCE | Next-Generation RNA Sequencing : From RNA to Data analysis | | |
| 16.30 – 17.00 | Dhaarsini KONESWARAKANTHA & Arthur ABELLO Chaired by Cecilie NANDRUP-BUS | Journal club: Lai et al., Nature 2015 | | |
| 17.00 – 19.00 | COFFEE BREAK & POSTER SESSION (all participants) | | Annexes 3-4, BDD Hall | |

- Open conferences (in blue)

Tuesday, February 9

Antisense long non-coding RNAs

Chair: Antonin Morillon

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| 10.00 – 11.00 | Susan K. CROSTHWAITE University of Manchester, Manchester, UK | Finding functions for lncRNA in Neurospora | Amphitheatre BDD |
| 11.00 – 11.30 | Victor HEURTIER & Aurélia ABEL Chaired by Subhanita GHOSH | Journal club: Takayama et al., EMBO J 2013 | |
| 11.30 – 12.00 | COFFEE BREAK | | BDD Hall |
| 12.00 – 13.00 | Francoise STUTZ iGE3, Geneva, SWITZERLAND | Non-coding transcription, gene expression and replication in yeast | Amphitheatre BDD |
| 13.00 – 14.30 | LUNCH | | TashiDèlèk |
| 14.30 – 15.00 | Ilaria CAPOZZO & Meenu SINGLA Chaired by Subhanita GHOSH | Journal club: Sarkar et al., Nature Comm 2015 | Amphitheatre BDD |
| 15.00 – 16.00 | Andreas Sebastian MARQUARDT Copenhagen Plant Science Center, Copenhagen, DENMARK | Divergent Non-coding Transcription | |
| 16.00 – 16.30 | COFFEE BREAK | | BDD Hall |
| 16.30 – 17.00 | Evdoxia KARADOULAMA & Caroline BESNARD Chaired by Subhanita GHOSH | Journal club: Peijin Li et al., Genes Dev 2015 | Amphitheatre BDD |

- Open conferences (in blue)

Wednesday, February 10

Small regulatory non-coding RNAs

Chair: Déborah Bourc'his

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| 9.00 – 10.00 | SARAF S, SINGLA M, VOGELS R, ALKHOURY C, SCHUSTER S, ABDERAHMANE F, FURELOS BREY L. | ROUND TABLE: Small non-coding RNAs | Amphitheatre BDD |
| 10.00 – 11.00 | Jean-René HUYNH Institut Curie, Paris, FRANCE | Annoying neighbours : tRNAs stressing out piRNAs !! | |
| 11.00 – 11.30 | COFFEE BREAK | | BDD Hall |
| 11.30 – 12.00 | Chantal ALKHOORY & Ewa MOLSKA Chaired by Cecilie NANDRUP-BUS | Journal club: Alarcón et al., Nature 2015 | Amphitheatre BDD |
| 12.00 – 13.00 | René KETTING IMB, Mainz, GERMANY | Transgenerational effects of small non-coding RNAs | |
| 13.00 – 14.30 | LUNCH | | Green Café |
| 14.30 – 15.00 | Zhong HAN, Wilhelm VAYSSE & Emmanuelle THERON Chaired by Cecilie NANDRUP-BUS | Journal club: Sienski et al., Cell 2012 | Amphitheatre BDD |
| 15.00 – 16.00 | Cynthia SHARMA IMIB, Würzburg, GERMANY | Regulating with RNA in the pathogenic Epsilonproteobacteria <i>Helicobacter pylori</i> and <i>Campylobacter jejuni</i> | |
| 16.00 – 17.00 | Lionel NAVARRO ENS, Paris, FRANCE | Transcriptional control of immune-response genes by DNA methylation and demethylation | |
| 17.00 – 19.00 | COFFEE BREAK & POSTER SESSION | | |
| | | | Annexes 3-4, BDD Hall |

- Open conferences (in blue)

Thursday, February 11

Non-coding RNAs in normal and pathological development

Chairs: Edith Heard
Antonin Morillon

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|---------------|--|--|-------------------------|
| 9.00 – 10.00 | THERON E, HEURTIER V, BESNARD C, KONESWARAKANTHA D, SILVA R, ABEL A, FLIPPOT R, VAYSSE W | ROUND TABLE: ncRNA in normal and pathological development | Amphitheatre BDD |
| 10.00 – 11.00 | Maria Carla SALEH Institut Pasteur, Paris, FRANCE | RNAi and the control of viral infections in insects | |
| 11.00 – 11.30 | COFFEE BREAK | | BDD Hall |
| 11.30 – 12.00 | Bauch Sophia & Augustin Jérémy Chaired by Subhanita GHOSH | Journal club: Gammon & Mello, Curr Opin Insect Sci 2015 | Amphitheatre BDD |
| 12.00 – 13.00 | Anton WUTZ ETH Zurich, SWITZERLAND | Cell Genetic for understanding gene repression by Xist RNA | |
| 13.00 – 14.30 | LUNCH | | Green Café |
| 14.30 – 15.00 | Stamatia GIOFTSIDI & Laura FURELOS BREY Chaired by Subhanita GHOSH | Journal club: Krol et al., Nat Commun. 2015 | Amphitheatre BDD |
| 15.00 – 16.00 | Javier MARTINEZ IMBA, Vienna, AUSTRIA | The endless search for novel RNA metabolic pathways | |
| 16.00 – 17.00 | Eric MISKA University of Cambridge, Cambridge, UK | Transgenerational epigenetic inheritance and RNAe | |

- Open conferences (in blue)

Friday, February 12

Non-coding RNAs as biomarkers, therapeutic targets and genetic tools

Chairs: Franck Toledo
Arturo Londono

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| 10.00 – 11.00 | Niels M. FRANSEN EXIQON, DENMARK | Analysis of ncRNA function with single strand LNA™ antisense oligonucleotides | Amphitheatre BDD |
| 11.00 – 12.00 | Reuven AGAMI NCI, Amsterdam, NETHERLANDS | Enhancers: from RNA to functional genomics | |
| 12.00 – 12.30 | Farida ABDERAHMANE & Shradha SARAF Chaired by Cecilie NANDRUP-BUS | Journal club: Szczelkun et al., PNAS 2014 | |
| 12.30 – 14.00 | LUNCH | | Green Café |
| 14.00 – 15.00 | Ines FONFARA (CHARPENTIER lab) HZI, Braunschweig, GERMANY | Biology of the bacterial CRISPR-Cas9 system: a game changer in genome engineering | Amphitheatre BDD |
| 15.30 – 16.00 | Antonin MORILLON Institut Curie, Paris, FRANCE | Concluding Remarks & Notes / certificates attribution | |
| END of the course | | | |

- Open conferences (in blue)