

RNAQuality Meeting

Granada, Spain, 11-13 June 2008

Final Programme

Wednesday 11th of June 2008

- 18:30 Arrival and registration
Buffet dinner
- 19:40-20:00 Welcome and Introductory remarks
Michael Kiebler and **Astrid Lunkes**

Session 1: QC of nascent RNA PolII transcripts Part I

Chair: **Elisa Izaurrealde**

- 20:00-20:25 **Dmitry Belostotsky** (University of Missouri, US)
*Genome-wide high-resolution mapping of the plant
exosome substrates*
- 20:25-20:50 **Thomas Gingeras** (Affymetrix, Inc., US)
*New Classes of Functional Short RNAs and Chromosome-
wide Transcriptional Networks*
- 20:50-21:15 **Alain Jacquier** (Institut Pasteur, Paris, FR)
*The complete map of CUTs in *Saccharomyces
cerevisiae*: implications for CUTs metabolism and
functions.*
- 21:15-21:40 **Torben Heick Jensen** (University of Aarhus, DK)
*Robust transcription activity immediately upstream
the majority of active mammalian promoters*
- 21:40 **Welcome drinks**

Thursday 12th of June 2008

Session 1: QC of nascent RNA PolII transcripts Part II

Chair: **Hervé Le Hir**

- 08:45-09:10 **Steve Buratowski** (Harvard University, US)
Exosome and the Nrd1/Sen1 Complex
- 09:10-09:35 **Domenico Libri** (CNRS, CGM, Gif-sur-Yvette, FR)
From transcriptional noise to the sound of regulation
- 09:35-10:00 **Steve West** (University of Oxford, UK)
Transcriptional termination of RNA polymerase II enhances gene expression
- Ana Rondon** (University of Oxford, UK)
Failsafe mechanisms in Pol II termination
- 10:00-10:25 **Neus Visa** (Stockholm University, SE)
Cancelled
- 10:00-10:25 **Coffee break**

Session 2: mRNA QC pathways Part I

Chair: **David Tollervey**

- 10:45-11:05 **Allan Jacobson** (University of Massachusetts, US)
Nonsense-mediated mRNA decay in yeast
- 11:05-11:25 **Hervé Le Hir** (CNRS, CGM, Gif-sur-Yvette, FR)
Reconstitution of the human NMD surveillance complex
- 11:25-11:45 **Andreas Kulozik** (University of Heidelberg, DE)
Alternative pathways in mammalian NMD
- 11:45-12:05 **Stuart Peltz** (UMDNJ, US).
Cancelled (replaced by **Allan Jacobson**)
- 12:05-12:25 **Andrzej Dziembowski** (Warsaw University, PL)
Novel endonuclease activity of the exosome contributes to digestion of its physiological substrates.
- 12:30-13:30 **Lunch**
- 13:30-15:00 **Poster presentation**

Session 2: mRNA QC pathways Part II

Chair: **Torben Heick Jensen**

- 15:00-15:25 **Elisa Izaurralde** (MPI Tübingen, DE).
Cancelled (replaced by **Hélène Gaillard**, Uni Sevilla, ES)
- 15:25-15:50 **Oliver Mühlemann** (University of Bern, CH)
SMG6 induced endonucleolytic cleavage of nonsense mRNA in human cells
- 15:50-16:00 **Mariangela Morlando** (University of Rome, IT)
Short talk: *Drosha processing and microRNA transcription*
- 16:00-16:10 **Gadi Schuster** (Technion, IL)
Short talk: *The evolution of RNA Polyadenylation; Different Tails Tell Different Tales*
- 16:10-16:30 **Coffee break**

Session 3: Structural organization of QC players

Chair: **Nick Proudfoot**

- 16:55-17:20 **Haiwei Song** (Inst. Molecular & Cell Biology, SG).
Cancelled (replaced by **Nicholas Proudfoot**, Uni Oxford, UK)
- 17:20-17:45 **Ailong Ke** (Cornell University, US)
Architecture of the yeast exosome complex suggests routes of RNA recruitment for 3' processing
- 17:45-18:10 **Marc Graille** (University Paris-Sud, FR)
Structural studies of proteins involved in mRNA quality control pathways
- 18:10-18:35 **Esben Lorentzen** (Birkbeck College, London, UK)
Crystal structure of the active subunit of the yeast exosome core, Rrp44, bound to RNA
- 18:35-18:45 **Laura Milligan** (University of Edinburgh, UK)
short talk: *A new yeast exosome cofactor Mpp6 and redundant activities contribute to the rapid degradation of ncRNA transcripts*
- 19:00-20:00 **Dinner**
- 20:00-21:30 **poster presentation and discussion**

Friday 13th of June 2008

Session 4: Localization and translation Part I

Chair: **Michael Kiebler**

- 09:10-09:35 **Ilan Davis** (University of Oxford, UK)
The Mechanism of mRNA Localisation and Anchoring in Drosophila
- 09:35-10:00 **Stefan Hüttelmaier** (University of Halle-Wittenberg, DE)
ZBP1, the postman controlling spatially restricted β -actin translation in primary neurons?
- 10:00-10:25 **Rob Singer** (Albert Einstein College of Medicine, NY, US)
Following the mRNA regulation and quality control in living cells
- 10:25-10:50 **Sadanand Vodala** (Brandeis Uni, US)
Cancelled
- 10:25-10:50 **Coffee break**

Session 4: Localization and translation Part II

Chair: **Bertrand Séraphin**

- 11:10-11:35 **Eric Phizicky** (University of Rochester, US)
*Degradation of several hypomodified mature tRNA species in *Saccharomyces cerevisiae* is mediated by Met22 and the 5'-3' exonucleases Rat1 and Xrn1*
- 11:35-12:00 **Joel Richter** (University of Massachusetts, US)
Translational Control of Cellular Senescence
- 12:00-12:25 **James Anderson** (Marquette University, US)
TRAMP mediated degradation of RNA in yeast
- 12:25-12:50 **David Tollervey** (University of Edinburgh, UK)
Getting Systematic with Ribosome Synthesis
- 12:50-13:15 **Michael Kiebler** (University of Vienna, AT)
mRNA transport, mRNA decay and miRNA silencing in neurons
- 13:30-14:30 **Lunch and departure**