

TUESDAY 17 MAY 2016

- 19.30 – 20.30 Dinner and Reception
 20.30 – 22.00 Poster Session 1 – odd numbers

WEDNESDAY 18 MAY 2016
SESSION 1: RNA EDITING AND MODIFICATION IN HUMANS: DISEASE AND THERAPY

- 08.45 – 09.00 Welcome
 09.00 – 09.30 **ELI EISENBERG**. Profiling the cancer editome.
 09.30 – 10.00 **MICHAEL JANTSCH**. Editing of filamin A controls smooth muscle cell contraction and colitis.
 10.00 – 10.30 **SUSANA RODRIGUEZ-NAVARRO**. RNA structures modulate the expression of the mRNA biogenesis factor Sus1.
 10.30 – 11.00 Coffee break
 11.00 – 11.20 **RACHID BOUTOUAL**. Adaptive and maladaptive responses triggered by MTO1-dependent hypomodification of mitochondrial tRNAs.
 11.20 – 11.40 **LINDA MOLLA**. Characterization of APOBEC2's molecular function.
 11.40 – 12.00 **PAVEL IVANOV**. Angiogenin-mediated RNA cleavage in cellular stress adaptation and survival.
 12.15 – 13.30 LUNCH

SESSION 2: ADAPTIVE FINE TUNING OF GENETIC INFORMATION BY RNA EDITING AND MODIFICATION (I)

- 13.30 – 14.00 **EREZ LEVANON**. Editing of retrotransposons by APOBECs and ADARs in genome evolution.
 14.00 – 14.30 **JIN BILLY LI**. Identifying functional A-to-I RNA editing events in *Drosophila* by evolutionary analyses.
 14.30 – 15.00 **GRAZIANO PESOLE**. Computational investigation of epigenetic regulation mechanisms by simultaneous analysis of genome and transcriptome data.
 15.00 – 15.30 Coffee break
 15.30 – 15.50 **ANTHONY POOLE**. Emergence of slippage-type 'editing' revealed by experimental evolution.
 15.50 – 16.10 **YI XING**. The contribution of Alu exons to the human proteome.
 16.10 – 16.30 **ANTONIO MARCO**. Selection against microRNA target sites.
 16.30 – 18.00 Leisure time

KEYNOTE SPEAKER

- 18.00 – 19.00 **JIANZHI ZHANG**. Diversity in post-transcriptional modifications: adaptive or not?
 19.15 – 20.30 Dinner
 20.30 – 22.00 Poster Session 2 - even numbers

THURSDAY 19 MAY 2016
SESSION 3: ADAPTIVE FINE TUNING OF GENETIC INFORMATION BY RNA EDITING AND MODIFICATION (II)

- 09.00 – 09.30 **MIGUEL GALLACH**. Adaptive A-to-I RNA editing in *Drosophila*.
 09.30 – 10.00 **JOSH ROSENTHAL**. Sepia, pulpo y calamar: los campeones de edición.
 10.00 – 10.30 **PABLO VERA**. Mediated plastid RNA editing in plant immunity.
 10.30 – 11.00 Coffee break
 11.00 – 11.20 **ALICIA GALLEGO**. Elucidating the evolutionary implications of microRNA editing through a deep analysis of mir-376a-1 across human tissues and primate species.
 11.20 – 11.40 **MARIA WARNEFORS**. Functional contributions of miRNAs to the evolution of mammalian organ development.
 11.40 – 12.00 **EDUARDO LARRIBA**. Bioinformatic analysis of piRNAs in mouse zygote and gametes reveal new potential origins and functions.
 12.15 – 13.30 LUNCH

SESSION 4: FINE TUNING AND DIVERSIFICATION OF GENE EXPRESSION (I)

- 13.30 – 14.00 **YI TAO YU**. RNA pseudouridylation and gene regulation.
 14.00 – 14.30 **THORSTEN STAFFORST**. Harnessing RNA editing to reprogram mRNA content in specific transcripts.
 14.30 – 15.00 **ANN EHRENHOFER-MURRAY**. Regulation of Dnmt2-dependent tRNA methylation by the micronutrient queuine.
 15.00 – 15.30 Coffee break
 15.30 – 15.50 **SAMSON SIMON**. The Brassicaceae self-incompatibility system: where miRNA and siRNA pathways meet.
 15.50 – 16.10 **ALESSANDRO MICHIEZI**. ADAR1 restricts the LINE1 retrotransposition in human cell lines.
 16.10 – 16.30 **LLUIS RIBAS DE POUPLANA**. Biological function and evolutionary relevance of ADAT.
 16.30 – 18.00 Leisure time

KEYNOTE SPEAKER

- 18.00 – 19.00 **GIDEON RECHAVI**. The expanding epitranscriptome landscape.
 20.30 – 22.00 Gala dinner. Restaurant DUKALA.

FRIDAY 20 MAY 2016

SESSION 5: FINE TUNING AND DIVERSIFICATION OF GENE EXPRESSION (II)

09.00 - 09.30	SALVADOR MESEGUER. Stress response mediated by mitochondrial-tRNA modification enzymes and their microRNA regulators.
09.30 - 10.00	NINA PAPAVALIOU. RNA editing generates cellular subsets with diverse sequence within populations.
10.00 - 10.30	AYELET LAMM. A-to-I RNA editing promotes developmental-stage specific gene and lncRNA expression.
10.30 - 11.00	Coffee break
11.00 - 11.20	MATEA HAJNIC. Inosine nucleobase acts as guanine in interactions with amino-acid sidechain analogs.
11.20 - 11.40	SANDRA BLANCO. RNA post-transcriptional m5C-methylation in stem cells, stress responses and cancer.

POSTERS

- 1. VIRIDIANA AVILA MAGANA.** Identification of Non-coding RNAs and their functional role in *Scleractinian Corals*.
- 2. AGNIESZKA BELTER.** Natural intracellular mechanisms of miRNAs regulation and new molecular tools for miRNAs targeted therapy.
- 3. SANDRA BLANCO.** RNA post-transcriptional m5C-methylation in stem cells, stress responses and cancer.
- 4. RACHID BOUTOUAL.** Adaptive and maladaptive responses triggered by MTO1-dependent hypomodification of mitochondrial tRNAs.
- 5. JORDI DURBAN.** Testing the hypothesis that miRNAs modulate ontogenetic changes in the venom of *Crotalus simus*.
- 6. NABEEL GANEM.** Analysis of RNA editing regulation and function.
- 7. MATEA HAJNIC.** Inosine nucleobase acts as guanine in interactions with amino-acid sidechain analogs.
- 8. DEWI HARJANTO.** Elucidating the role of Apobec1-mediated C-to-U editing in intestinal cancer.
- 9. PAVEL IVANOV.** Angiogenin-mediated RNA cleavage in cellular stress adaptation and survival.
- 10. UTKARSH KAPOOR.** Global Interplay of RNA-Editing and pre-mRNA Splicing.
- 11. EDUARDO LARRIBA.** Bioinformatic analysis of piRNAs in mouse zygote and gametes reveal new potential origins and functions.
- 12. ANTONIO MARCO.** Selection against microRNA target sites.
- 13. LINDA MOLLA.** Characterization of APOBEC2's molecular function.
- 14. EUGENE MUELLER.** New Findings in the Synthesis of Pseudouridine and 4-Thiouridine.
- 15. EYAL PEER.** Bioinformatic Characteristics of N1-methyladenosine decoration of mRNA.
- 16. ERNESTO PICARDI.** Profiling RNA editing in Human Single Cells.
- 17. VIOLETA RAYON ESTRADA.** Fine-tuning protein expression through RNA editing: functional consequences of APOBEC1 editing in macrophages.
- 18. SAMSON SIMON.** The Brassicaceae Self-Incompatibility System: where miRNA and siRNA Pathways meet.
- 19. MORITZ SMOLKA.** Teaser: Comprehensive read mapper benchmarking in 20 minutes for genomes, transcriptomes, methylomes and metagenomes.
- 20. MAGDA VILLARROYA.** Understanding the pathogenic effects of clinical MTO1 mutations using the bacterial tRNA modification enzyme MnmG.
- 21. XINZHUANG YANG.** Selectively Constrained RNA Editing Regulation Crosstalks with piRNA Biogenesis in Primates.
- 22. MARYAM ZARINGHALAM.** Comparative analysis of high-throughput pseudouridine-detection techniques.
- 23. RUI ZHANG.** Evolutionary Analysis Reveals Regulatory and Functional Landscape of RNA Editing.

MAP

Botanical Garden: C/ Quart, 80.
Hotel NH Valencia Center: C/ Ricardo Micó, 1.
Gala dinner – Restaurante DUKALA: C/ Dr. Sanchis Bergón, 27
Turia Metro Station: Av./ Pio XII with C/ Menendez Pidal



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