**WEDNESDAY, SEPTEMBER 30**

**Welcoming Remarks (Organizers) and Keynote Address (8am Denver/Mountain Time Start)**

*Stacy M. Horner*, Duke University Medical Center, USA

Chuan He, University of Chicago, USA

*Reversible RNA Methylation in Gene Expression Regulation*

**Dynamic Regulation of the Epitranscriptome (8:45am Denver/Mountain Time Start)**

*Blerta Xhemalce*, University of Texas, Austin, USA

Targeting RNA Methylation in Cancer

Aldema Sas-Chen, Weizmann Institute of Science, Israel

Short Talk: Dynamic RNA Acetylation as a Mechanism for RNA Thermostabilization

Jin Billy Li, Stanford University, USA

ADAR1 RNA Editing and Innate Immunity

Marisa Almeida Pereira, iBiMED-Institute of Biomedicine, Portugal

Short Talk: Lack of m5U Modification in tRNAs Induces the Formation of RNA-Derived Fragments

*Polly Chen*, National University of Singapore, Singapore

Short Talk: Dynamic Regulation of A-to-I RNA Editing by RNA Helicases

**Career Roundtable (12pm Denver/Mountain Time Start)**

Kate Meyer, Duke University, USA

Lynn Abell, Agios Pharmaceuticals, USA

Chuan He, University of Chicago, USA

*"Self" vs "Non-Self" RNA Pattern Recognition (1pm Denver/Mountain Time Start)**

Stacy M. Horner, Duke University Medical Center, USA

RNA Methylation in Viral Infection

Carl Walkley, St Vincent's Institute, Australia

The in vivo Functions of A-to-I Editing

Michael A. Tartell, Harvard University, USA

Short Talk: Cap-Proximal N6-Methylation Protects Viral mRNA against Interferon beta Pretreatment

Noam Stern-Ginossar, Weizmann Institute of Science, Israel

m6A and Innate Immunity

Grace Chen, Yale University School of Medicine, USA

Circular RNA Immunity

Reshma Kurup, Indiana University, USA

Short Talk: ADAR3 Alters the MAVS/NF-kappaB Signaling Pathway in Glioblastoma

**THURSDAY, OCTOBER 1**

**Functions and Mechanism (8am Denver/Mountain Time Start)**

Yunsun Nam, University of Texas Southwestern Medical Center, USA

Structural Basis for Substrate Specificity of RNA Methyltransferases

Kazuko Nishikura, Wistar Institute, USA

ADAR RNA Editing and Genome Stability

Bei Liu, Duke University, USA

Short Talk: Syn-Anti Isomerization of the m6A Methylamino Group as a Molecular Timer that Slows Nucleic Acid Annealing and Conformational Transitions

Kate Meyer, Duke University, USA

Uncovering m6A and Its Role in RNA Regulation

*Peter Beal*, University of California, Davis, USA

ADAR Structure and Substrate Recognition

Kayla Shumate, Vanderbilt University, USA

Short Talk: CAPS1 RNA Editing Selectivity Mediates Dopamine Neurotransmission in the Dorsal Striatum

**Poster Session 2 (11am Denver/Mountain Time Start)**

Understanding and Exploiting Epitranscriptome in Cancer (1pm Denver/Mountain Time Start)

Eli Eisenberg, Tel Aviv University, Israel

Human Recoding Sites: Profile, Evolution, Adaptation

*Jianjun Chen*, Beckman Research Institute of City of Hope, USA

m6A in Cancer

Anna-Maria Herzner, Genentech, Inc., USA

Short Talk: Dual Protection from Endogenous dsRNA-Induced Type-I IFN Responses by ADAR and hnRNPC

F. Nina Papavasiliou, Deutsches Krebsforschungszentrum, Germany

RNA Deamination in Immunity and Cancer

Michael G. Kharas, Memorial Sloan Kettering Cancer Center, USA

RNA Methylation and the Control of Cell Fate in the Blood

Dhwani Rupani, MD Anderson Cancer Center, USA

Short Talk: Loss of Adar1 in Pancreatic Acinar Cells Leads to Apoptosis and Inflammation

**FRIDAY, OCTOBER 2**

Transcriptome Engineering and Technology Development (8am Denver/Mountain Time Start)

Thorsten Stafforst, Universität Tübingen, Germany

Harnessing ADAR Activity for Site-Directed RNA Editing

Yi-Tao Yu, University of Rochester Medical Center, USA

Pseudouridine-Mediated Stop Codon Read Through

Meng How Tan, National University of Singapore, Singapore

Short Talk: Development of an Efficient and Specific Platform for Programmable RNA Base Editing

*Eva Maria Novoa Pardo*, Centre for Genomic Regulation, Spain

Quantitative Profiling of Pseudouridine Modification Dynamics Using Native RNA Nanopore Sequencing

Omar Abudayyeh, Massachusetts Institute of Technology, USA

Harnessing Novel CRISPR Systems for Programmable RNA Editing

Supuni Thalalla Gamage, National Cancer Institute, USA

Short Talk: Chemistry to Discover and Decode RNA Acetylation

**Poster Session 2 (11am Denver/Mountain Time Start)**

The Role of Epitranscriptome in Development and Stem Cell (1pm Denver/Mountain Time Start)
Michaela Frye, Deutsches Krebsforschungszentrum, Germany
m5C RNA Methylation

Guifeng Wei, University of Oxford, UK
Short Talk: Acute depletion of METTL3 Identifies a Role for
N6-Methyladenosine in Alternative Intron/Exon Inclusion in the
Nascent Transcriptome

*Kamil R. Kranc, Barts Cancer Institute, Queen Mary University of
London, UK
Targeting m6A mRNA Readers in Blood Malignancies

Brian C. Capell, University of Pennsylvania, USA
Short Talk: Dynamic Epitranscriptomic Regulation of Self-Renewing
Epithelia via METTL3-Mediated m6A

*Alexey Ruzov, University of Nottingham, UK
The Role of m6A in R-Loop Regulation

Diana Guallar, Universidade de Santiago de Compostela, Spain
Short Talk: ADAR1-Dependent RNA Editing Promotes MET and iPSC
Reprogramming by Alleviating ER Stress

Michael McMillan, University of Michigan, USA
Short Talk: Intersection between RNA Methylation and
TDP43-Mediated Toxicity in ALS

Closing Remarks

Michaela Frye, Deutsches Krebsforschungszentrum, Germany