

YALE CENTER FOR RNA SCIENCE AND MEDICINE

RETREAT 2024 PROGRAM

O. C. Marsh Auditorium, Yale Science Building, New Haven, CT 06511—25 October 2024

08:00–09:00	Registration and Breakfast (Marsh Lobby)	
09:00–09:15	Karla Neugebauer (Professor of MB&B, Director of the Yale RNA Center) Welcome	
09:15–10:25	Session I (Marsh Auditorium)	Chair: Dagmar Zigackova (Neugebauer Lab)
09:15–09:35	Kirstin Meyer (Professor of MCDB) Decoding transcription factor dynamics through transcriptional condensates	
09:35–09:50	Kevin Tse (Smith Lab, Genetics) Regulative transitions in LINE-1 RNP formation and activity within early mouse embryos	
09:50–10:10	Manoj Pillai (Professor of Hematology) Don't Blame the Messenger: Splicing Factor Mutations Rewire Transcription and Chromatin Dynamics	
10:10–10:25	Alexandra Bergfort (Neugebauer Lab, MB&B) EIF4A3 prevents widespread coordinated exon skipping across human genes	
10:25–11:25	Poster I & Coffee (Odds, Marsh Lobby)	
11:25–12:35	Session II (Marsh Auditorium)	Chair: Danni Jin (Gilbert Lab)
11:25–11:45	Claudia Mimoso (Reinke and Noonan Labs, Genetics) U1 snRNP increases RNA Pol II elongation rate to enable synthesis of long genes	
11:45–12:00	Mark S. Williams (Thoreen Lab, Cellular and Molecular Physiology) Post-transcriptional regulation of TOP mRNAs is required for normal brain development and spatial memory	
12:00–12:15	Srikar Gopinath (Giraldez Lab, Genetics) Measuring the functional impact of 5' UTR variants in human disease	
12:15–12:35	Stefania Nicoli (Professor of Cardiovascular Medicine and Genetics) Guardians of Gene Expression: A Tribute to microRNAs	
12:35–13:35	Lunch (Marsh Lobby)	
13:35–14:40	Session III (Marsh Auditorium)	Chair: Zion Perry (Pyle Lab)
13:35–13:50	Sabrina G. Grunseich (Strobel Lab, Chemistry) High-Throughput Mutational Analysis of Translation Initiation by an IGR IRES	
13:50–14:05	Tanja Hann (Pyle Lab, MB&B) Discovering regulatory RNA structure in the murine norovirus (MNV) genome	
14:05–14:20	Hannah Barsouk (Breaker Lab, MB&B) Disruption of the OLE RNP Complex Enhances Bacterial Tolerance to Antibiotics that Stall the Ribosome	
14:20–14:40	Eric Wang (Professor, The Jackson Laboratory) Post-transcriptional inactivation of a tumor suppressor program in leukemia	
14:40–15:40	Poster II & Coffee (Evens, Marsh Lobby)	
15:40–17:05	Session IV (Marsh Auditorium)	Chair: Ethan Strayer (Giraldez Lab)
15:40–15:55	Haejeong Lee (Giraldez Lab, Genetics) Deciphering the code: codons, codon-codon interactions, amino acids, and peptide bonds regulate mRNA stability	
15:55–16:15	Clemens Scherzer (Professor of Neurology) Gene activity map of 1 million brain cells identifies Parkinson's disease genes	
16:15–16:30	Diana Martínez Saucedo (Escobar-Hoyos Lab, Therapeutic Radiology) Systemic targeting of therapeutic RNA to pancreatic ductal adenocarcinoma via a novel, cell-penetrating, and nucleic acid-binding monoclonal antibody	
16:30–16:50	Ailong Ke (Professor of MB&B) Less is more: Converting IscB into a versatile RNA-guided RNA editor	
16:50–17:05	Karla Neugebauer (Professor of MB&B, Director of the Yale RNA Center) Closing remarks	
17:05–18:30	Reception and Entertainment (Marsh Lobby)	