## Sunday, September 26

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome and opening remarks
8:05 pm	Session 1: RNA switches in the lab and in the clinic Chair: Ron Breaker
8:05 pm	Ronald Breaker, HHMI/Yale University Structured non-coding RNAs in bacteria: Prospects for drug development
8:35 pm	Bruce Sullenger, Duke University Translating RNA Switches into the Clinic
9:05 pm	Refreshments available in Bob's Pub

## Monday, September 27

7:30 am	Breakfast
9:00 am	Session 2: siRNA therapy Chair: Mark Kay
9:00 am	Joanne Kamens, RXi Pharmaceuticals Design of chemically modified RNAi compounds with spontaneous cellular uptake
9:30 am	<b>Beverly L. Davidson</b> , University of Iowa  Evaluating the safety of RNAi-based therapeutics for HD
10:00 am	Mark A. Kay, Stanford University School of Medicine Mammalian tRNA-derived small RNAs: A newly discovered class of small RNAs are regulated during liver regeneration and hepatic cancer
10:30 am	Break
11:00 am	Session 3: RNA delivery Chair: Mark Davis
11:00 am	<b>Daniel G. Anderson</b> , Massachusetts Institute of Technology Development of biomaterials and synthetic siRNA delivery systems
11:30 am	James Thompson, Quark Pharmaceuticals Development of the first systemically-administered synthetic siRNA
12:00 pm	Mark E. Davis, California Institute of Technology Systemic delivery of siRNA to solid tumors via targeted nanoparticles
12:30 pm	Lunch
2:00 pm	Session 4: Non-coding RNAs Chair: Beverly Davidson
2:00 pm	Jeannie Lee, HHMI/Harvard University The X as model for ncRNA regulation of the epigenome
2:30 pm	<b>Svitlana Berezhna</b> , The Scripps Research Institute Lipid droplets and P-bodies roles in dual interaction of cellular RNAi with Hepatitis C viral RNA
3:00 pm	Leonard Lipovich, Wayne State University  Long non-coding RNA molecules in mammalian gene regulation: Regulatory networks of coding and non-coding transcriptomes

3:30 pm Break

**4:00 pm Panel Discussion:** *Accelerating the pace of RNA translational research:* 

*Navigating the public-private partnership landscape* 

**Moderator: Bruce Sullenger** 

**Panelists:** Mark Davis Peter Sarnow

Ryszard Kole James Thompson

5:15 pm Poster Reception

7:00 pm Dinner

8:00 pm Refreshments available in Bob's Pub

## Tuesday, September 28

7:30 am	Breakfast
9:00 am	Session 5: RNA-protein complexes Chair: Tom Steitz
9:00 am	Alexander Mankin, University of Illinois at Chicago Inducible antibiotic resistance: Role of rRNA in the mechanism of induction
9:30 am	<b>Gene W. Yeo</b> , University of California, San Diego <i>RNA binding protein networks in neurodegeneration and cancer</i>
10:00 am	<b>Thomas A. Steitz</b> , HHMI/Yale University  The roles of RNA in ribosome function
10:30 am	Break
11:00 am	Session 6: Viral RNA Chair: Raul Andino
11:00 am	<b>Peter Sarnow</b> , Stanford University  Modulation of Hepatitis C Virus and Insig1 RNA abundances by MicroRNA 122
11:30 am	<b>Daniela Castanotto</b> , City of Hope Small non-coding RNAs in disease pathogenesis and therapy
12:00 pm	Raul Andino, University of California, San Francisco Antiviral immunity in Drosophila: Systemic RNAi and viral suppressores
12:30 pm	Lunch
1:00 pm	Tour (optional - meet at reception)
2:15 pm	Session 7: Aptamers/RNA selection Chair: Bruce Sullenger
2:15 pm	<b>Benjamin D. Heuberger</b> , Massachusetts General Hospital Selecting for a sequence-general RNA-based RNA-helix recognition motif
2:45 pm	William Rockey, University of Iowa Targeting silence with RNA aptamers
3:15 pm	<b>Tianjiao Wang</b> , Iowa State University  Development of therapeutic aptamers targeting Ebola VP35
3:45 pm	Break

4:15 pm	Session 8: Small-molecule/RNA interactions Chair: Matt Disney
4:15 pm	<b>Nadia Kulshina</b> , Fred Hutchinson Cancer Research Center Recognition of the bacterial second messenger c-di-GMP by its cognate riboswitch
4:45 pm	Matthew D. Disney, University of Buffalo Progress toward the rational and modular design of ligands targeting RNA
5:15 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 9: RNA splicing Chair: Anna Marie Pyle
8:00 pm	<b>Ryszard Kole</b> , AVI BioPharma  Modulation of RNA splicing by oligonucleotides: From concept to clinical trials
8:30 pm	Anna M. Pyle, HHMI/Yale University Group II introns: Agents of molecular evolution and tools for genetic design
9:00 pm	Refreshments available in Bob's Pub

## Wednesday, September 29

7:30 am	Breakfast
9:00 am	Session 10: Novel applications for RNA targeting Chair: Jennifer Doudna
9:00 am	Eli Gilboa, University of Miami School of Medicine How to convert disseminated tumors into "immunological pathogens"
9:30 am	<b>Paul T. Toran</b> , Boston University  A novel molecular tool for the next generation of basic RNA research, clinical diagnostics and genetic therapeutics
10:00 am	<b>Jennifer Doudna,</b> HHMI/University of California, Berkeley RNA-mediated viral immunity in bacteria: Molecular mechanisms and potential applications
10:30 am	Snacks and Departure (Lunch available in servery starting at 11:30 am)
11:00 pm 11:45 pm 12:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles