Program - Friday, July 11

7:30 a.m. – 8:30 a.m.  Registration

SESSION 1
08:30 - 08:40  Opening notes
08:40 - 09:15  **Invited speaker: John Calarco.** *Shining a light on the diversity of messages in the nervous system*
09:15 - 09:30  **Maria Carmo-Fonseca.** *5 seconds to splice*
09:30 - 09:45  **Courtney French.** *Transcriptome analysis reveals thousands of targets of nonsense-mediated mRNA decay that offer clues to the mechanism in different species*
09:45 - 10:00  **Hyeshik Chang.** *TAIL-seq: Genome-wide determination of poly(A) tail length and 3' end modifications*
10:00 - 10:15  **Lawrence Chasin.** *Saturation mutagenesis of a human exon*
10:15 - 10:45  Coffee Break

SESSION 2
10:45 - 11:20  **Invited speaker: Kristen Lynch.** *Interplay of signaling and splicing during T cell activation*
11:20 - 11:35  **Auinash Kalsotra.** *Identification of a conserved and cell-type specific program of regulated mRNA splicing in postnatal liver development.*
11:35 - 11:50  **Fátima Sánchez-Cabo.** *Understanding the regulation of alternative splicing changes in heart disease*
11:50 - 12:20  **Invited speaker: Aviv Regev/Rahul Satija** *From culture to clinic: single cell profiling of the mammalian immune system.*
12:20 - 13:30  Lunch

SESSION 3
13:30 - 14:05  **Invited speaker: Christina Leslie.** *Context-specific 3'UTR isoform expression and miRNA regulation*
14:05 - 14:20  **Angela Brooks.** *The landscape of RNA splicing alterations in human cancers*
14:20 - 14:35  **Sara Gosline.** *Beyond Argonaute: understanding microRNA dysregulation in cancer and its effect on protein interaction and transcriptional regulatory networks*
14:35 - 14:50  **Will Fairbrother.** *Massively parallel reporter assays reveal splicing defects in 20% missense disease alleles*
14:50 - 15:25  **Invited speaker: Chris Burge.** *Origins and impacts of new exons*
15:25 - 16:00  Coffee Break (and start of poster session)

SESSION 4
16:00 - 17:30  **Poster session**
17:30 - 17:45  **Arvind Subramaniam.** *Mechanistic constraints for modelling translation from genome-wide measurements of ribosome occupancy*
17:45 - 18:00  **Alexander Junge.** *RNAalignClust: Discovering ncRNA families by sequence-structure-based clustering of multiple sequence alignments*
18:00 - 18:15  **Stephen Mount.** *Specialized reference transcriptomes for Sailfish*
18:15 - 18:50  **Invited speaker: Quaid Morris.** *The eukaryotic RNA-protein interaction code*
18:50 – 19:00  Concluding notes, poster prize announcement
19:30  **IRB-SIG dinner**