10:00 AM WELCOME

Short talks session 1

Daniel Arango (Oberdoerffer, Shalini: LRBGE)
DISTRIBUTION AND FUNCTION OF THE RNA ACETYLOMME

Adriana Zingone (Ryan, Brid: LHC)
GENOME-WIDE MAP OF APA IN LUNG CANCER AND ITS MODULATION BY SMOKING AND RACE: A PILOT STUDY

Iain Sawyer (Hager, Gordon: LRBGE)
CAJAL BODIES BRIDGE THE GAP BETWEEN GENOME ORGANIZATION AND SPLICEOSOMAL RNA EXPRESSION

Carla Neckles (Caplen, Natasha: GB)
TARGETING THE EWS-FLI1 PRE-mRNA G4-QUADRUPLEXES IN EWING SARCOMA CELLS

Guest speaker

11:00 AM Jeff Coller, Ph.D.,
Director of The Center for RNA Molecular Biology
Case Western Reserve University, School of Medicine

CODON OPTIMALITY IMPACTS GENE EXPRESSION THROUGHOUT EVOLUTION

12:00 – 1 PM Lunch
12:30 PM Room - Seminar 110 will be available for the hanging of posters

Poster session 1

Room - Seminar 110
1:00 – 1:45 PM Odd number presenters

Short talks session 3

David Calabrese (Schneekloth, Jay: CBL)
TARGETING MYC TRANSCRIPTION WITH NUCLEIC ACID BINDING SMALL MOLECULES

Regan LeBlanc (Le Grice, Stuart: BRL)
SMALL MOLECULE TARGETING OF PAN-ENE RNA TRIPLE HELIX AND IMPLICATIONS FOR THE TREATMENT OF KSHV

Jianbo Chen (Hu, Wei Shau: HIV DRP, RRL)
HIV-1 RNA TRANSPORT, DIMERIZATION AND PACKAGING

2:45 – 3:00 PM Break

Short talks session 4

Chad Brocker (Gonzalez, Frank: LM)
REGULATION OF LONG NON-CODING RNA BY PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR ALPHA AND THE POTENTIAL IMPACT ON SYSTEMIC LIPID HOMEOSTASIS

Ritu Chaudhary (Lal, Ashish: GB)
PRO-SURVIVAL p53-INDUCED LONG NONCODING RNA P1NCR REGULATES SPECIFIC p53 TARGETS BY BINDING TO MATRIN 3

Yun Ji (Gattinoni, Luca: ETIB)
ENHANCING THE EFFICACY OF T CELL-BASED IMMUNOTHERAPIES USING MIR-155 ENGINEERED TUMOR-SPECIFIC CD8+ T CELLS

Poster session 2

Room - Seminar 110
3:45 – 4:30 PM Even number presenters
4:30 PM END OF WORKSHOP
POSTERS
Room - Seminar 110
1:00 – 1:45 PM Poster Session 1  Odd number presenters
3:45 – 4:30 PM Poster session 2  Even number presenters
1  Fardokht Abulwerdi (Le Grice, Stuart: BRL)
IDENTIFICATION AND CHARACTERIZATION OF HBV (E) RNA-BINDING SMALL MOLECULES
2  Eckart Binewald (Shapiro, Bruce: GRCBL)
IN SILICO PREDICTION OF MULTI-STRAINED INTERACTING NUCLEIC ACID STRANDS
3  Xavier Bofill De Ros (Gu, Shuo: GRCBL)
APPLYING INSIGHTS FROM PRI-MIRNA PROCESSING TO shRNA DESIGN
4  Jiandong Chen (Gottesman, Susan: LMB)
TRANSLATIONAL CONTROL OF A DNA REPAIR GENE BY THE RNA-BINDING PROTEIN HFQ CONtributes TO BACTERIAL STRESS-INDUCED MUTAGENESIS
5  Mauricio Comas-Garcia (Rein, Alan: HIV DRP, RRL)
IN VITRO SELECTIVE BINDING BETWEEN THE HIV-1 PACKAGING SIGNAL AND GAG IS DRIVEN BY A DELICATE BALANCE BETWEEN SPECIFIC AND NON-SPECIFIC INTERACTIONS
6  Colleen Connelly (Schneekloth, Jay: CBL)
DISCOVERY OF INHIBITORS OF MICRORNA-21 PROCESSING THROUGH SMALL MOLECULE MICROARRAY SCREENING
7  Lisheng Dai (Gu, Shuo: GRCBL)
CYTOPLASMIC DROSHA ACTIVITY GENERATED BY ALTERNATIVE SPlicing
8  Hien Dang (Wang, Xin: LHC)
THE RNA BINDING PROTEIN RDBP ENHANCES C-MYC-INDUCED HCC BY MODULATING C-MYC TARGETS
9  Sean Davis (Meltzer, Paul: GB)
TRANSCRIPTOMIC DATA SCIENCE USING BIOCONDUCTOR
10 Wojciech Kasprzak (Shapiro, Bruce: GRCBL)
COMPUTER SIMULATIONS PROVIDE INSIGHTS INTO OPTICAL TWEEZER RNA STRUCTURE UNFOLDING DATA
11 Sukhbir Kaur (Roberts, David LP)
CD47 REGULATES THE SORTING OF MIRNA INTO EXTRACELLULAR VESICLES RELEASED BY JURKAT T CELLS
12 Suntae Kim (Caplen, Natasha: GB)
THE EWS-FLI1 PRE-mRNA IS VULNERABLE TO INHIBITION OF U2 SNRNP FUNCTION
13 Bong-Hyun Kim (Zheng, Zhi-Ming GRCBL)
FULL TRANSCRIPTIPTION MAP OF MOUSE PAPILOMAVIRUS TYPE 1 (MmuPV1) FROM WART TISSUES
14 Maria Kireeva (Kashlev, Mikhail, GRCBL)
REGULATION OF RNA POLYMERASE TRANSLOCATION BY THE LENGTH OF THE RNA-DNA HYBRID
15 Xiao Ling Li (Lal, Ashish) GB
LONG NONCODING RNA PURPL CONTROLS BASAL p53 LEVELS AND PROMOTES TUMORIGENESIS IN COLORECTAL CANCER
16 Haibin Liu (Zheng, Zhi-Ming, GRCBL)
LNCRNA EXPRESSION LANDSCAPE IN CERVICAL CANCER
17 Mariana Mandler (Oberdoerffer, Shalini: LRBGE)
FUNCTION OF GENE BODY DNA METHYLATION ON RNA SPLICING

Monika Mehta (Tran, Bao: CCR Sequencing Facility)
NEW ADVANCES IN STUDYING CELLULAR RNA BY NEXT-GENERATION SEQUENCING

Michelle Moon (Schneekloth, Jay: CBL)
TARGETING THE PREQ1-I RIBOSWITCH WITH DRUGLIKE SMALL MOLECULES

Marin Olson (Dalal, Yamini: LRBGE)
INVESTIGATING THE ROLE OF CENTROMERIC TRANSCRIPTION IN THE MAINTENANCE OF HUMAN CENTROMERES

Murali Palangat (Larson, Dan: LRBGE)
CANCER ASSOCIATED MUTANT SPLICING FACTOR U2AF35 CONFERS ALTERED DNA DAMAGE RESPONSE, ENHANCED CELL VIABILITY AND ACTIVATION OF SASP PATHWAY IN HUMAN BRONCHIAL EPITHELIAL CELLS UPON IRRADIATION WITH X-RAY

Lorena Parlea (Shapiro, Bruce: GRCBL)
RING CATALOG: THE FIRST REGISTRY OF COMPUTATIONALLY PROGRAMMED RING-LIKE RNA NANOCONSTRUCTS

Anu Puri (Shapiro, Bruce: GRCBL)
CONTROLLED RELEASE OF siRNA-LIPOPLEXES BY PHOTOSENSITIVE AGENTS FOR IMPROVED GENE SILENCING: PRELIMINARY STUDIES

Jacqueline Salotti (Johnson, Peter: MCGP)
ROLE OF UPF1 IN A NOVEL 3'UTR REGULATORY MECHANISM IN RAS TUMOR CELLS

Anna Serquina (Ziegelbauer, Joe: HAMB)
STABLE ISOTOPE LABELING OF AMINO ACIDS IN CELL CULTURE (SILAC) SCREEN IDENTIFIES KSHV VIRAL MICRORNAS MODULATING THE MEVALONATE/CHOLESTEROL BIOGENESIS PATHWAY

Tiejuan Shao (Gu, Shuo: GRCBL)
SCREENING MICRORNA 3’ MODIFICATION ENZYMES BY CRISPR-CAS9 SYSTEM

Nishi Sharma (Zheng, Zhi-Ming: GRCBL)
KSHV ORF57 INHIBITS THE FORMATION OF STRESS GRANULES BY INTERACTION WITH PACT AND PKR TO BLOCK EIF2A PHOSPHORYLATION

Chringma Sherpa (Le Grice, Stuart: BRL)
AN EVOLVED RNA RECOGNITION MOTIF THAT SUPPRESSES HIV-1 TAT/TAR-DEPENDENT TRANSCRIPTION

Joanna Sztuba-Solinska (Le Grice, Stuart: BRL)
A SMALL STEM-LOOP STRUCTURE OF THE EBOLA VIRUS TRAILER INTERACTS WITH HSPA8 AND IS ESSENTIAL FOR EBOLA VIRUS REPLICATION

Kyota Yasuda (Mili, Voula: LCMB)
CYTOPLASMIC FUS INCLUSIONS DISRUPT KINESIN-1 LEADING TO LOSS OF DETYROSINATED MICROTUBULES AND RNA MISLOCALIZATION

Paul Zakrevsky (Shapiro, Bruce: GRCBL)
CONDITIONAL RNAi RESPONSE MEDIATED BY A MULTI-STRANDED RNA SWITCH