Breakout room 1 - 2nd place winners

11:30 a.m - 11:45 a.m – Alexandra Tsolias - MODULATORY INFLUENCE OF MUSCARINIC ACETYLCHOLINE RECEPTOR AND ITS LOCALIZATION ON DISTINCT EXCITATORY AND INHIBITORY CIRCUITS WITHIN THE ACC AND LPFC OF THE RHESUS MONKEY

11:45 a.m – 12:00 p.m - Joseph Kern - HIPPO PATHWAY-MEDIATED REGULATION OF MAMMARY CELL PLASTICITY AND TUMORIGENESIS

12:00 p.m – 12:15 p.m – Gian Sepulveda - C-MYC ACTIVATION BY A DOT1L-STIMULATED PROTEOLYTIC CLEAVAGE

12:15 p.m – 12:30 p.m – Elissa Everton - SEXUAL DIMORPHISM IN MURINE ACETAMINOPHEN OVERDOSE-INDUCED LIVER INJURY AND REGENERATION

Breakout room 2 – 2nd place winners

11:30 a.m - 11:45 a.m – Saba Chowdhry - SCREENING FOR VASCULAR COGNITIVE IMPAIRMENT: A NOVEL DIGITIZED CLOCK DRAWING TASK

11:45 a.m – 12:00 p.m – Shen Ning - DEVELOPING MAGNETIC NANOPARTICLES FOR THERAPEUTIC ANTIBODY DELIVERY IN ALZHEIMER’S DISEASE

12:00 p.m – 12:15 p.m – Christina Gallo - SPLICING LANDSCAPE OF APOER2 IN ALZHEIMER’S DISEASE, MAPPED BY SINGLE MOLECULE, LONG READ RNA SEQUENCING

12:15 p.m – 12:30 p.m – Michael Breen - PREVIOUSLY INFECTED CELLS IN THE MAINTENANCE OF LUNG EXTRAVASCULAR MEMORY B CELLS

Breakout room 3 – 3rd Place Winner

11:30 a.m - 11:45 a.m – Jacob Beierle - A MAJOR QTL ON CHROMOSOME 15 UNDERLYING BALB/C SUBSRAIN DIFFERENCES IN WHOLE BRAIN CONCENTRATION OF THE POTENT OXYCODONE METABOLITE OXYMORPHONE: NOMINATION OF ZHX2 AS A CANDIDATE GENE UNDERLYING PHARMACOKINETICS AND BEHAVIOR

11:45 a.m – 12:00 p.m – Yee Fun Lee - ASTROCYTIC CONTRIBUTIONS TO DISRUPTED SLOW OSCILLATIONS IN A MOUSE MODEL OF ALZHEIMER’S DISEASE
12:00 p.m – 12:15 p.m – Margaret Minnig - CONTRIBUTION OF PRELIMBIC PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE TO EXCESSIVE ALCOHOL DRINKING

Breakout room 4 - 3rd place winners

11:30 a.m – 11:45 a.m – Megan Snyder - THE ARYL HYDROCARBON RECEPTOR LEADS TO IMMUNE SUPPRESSION AND TUMOR FORMATION IN BOTH ORAL AND LUNG CANCERS

11:45 a.m – 12:00 p.m – Jeffrey Kuniholm- MACROPHAGES HARBOR TRANSCRIPTIONALLY ACTIVE DEFECTIVE HIV PROVIRUS WHICH CONTRIBUTE TO IMMUNE ACTIVATION

12:00 p.m – 12:15 p.m – Elim Na - LIF-MEDIATED TISSUE INJURY AND APOPTOSIS DURING PNEUMONIA

Breakout room 5

11:30 a.m -11:45 a.m – Josiane Fofana- LONG-ACTING GM3 TAGGED NANOPARTICLES: A NEW APPROACH FOR HIV TREATMENT AND PREVENTION

11:45 a.m – 12:00 p.m – Zannan Masero- A PIPELINE FOR EXTRACTING ANATOMICAL INFORMATION FROM RHESUS MONKEY MRI SCANS TO STUDY THE IMPACT OF AGING ON STRUCTURE-FUNCTION RELATIONSHIPS

12:00 p.m – 12:15 p.m- Dhinakaran Chinappen- DELAYED SOMATOSENSORY CONDUCTION TIMES REVEAL DECREASED FOCAL THALAMOCORTICAL STRUCTURAL CONNECTIVITY IN RESOLVED ROLANDIC EPILEPSY

12:15 p.m – 12:30 p.m- Kristen Segars - USE OF MACHINE LEARNING REVEALS MULTIPLE SUB-POPULATIONS IN EPITHELIAL CELL SIGNALING AFTER INJURY

Breakout room 6

11:30 a.m -11:45 a.m – Razan Alotaibi- THE DEFAULT MODE NETWORK IN COGNITIVELY INTACT BLACK AND WHITE OLDER ADULTS

11:45 a.m – 12:00 p.m – Thomas Morin- DYNAMIC BRAIN NETWORK ANALYSIS DEMONSTRATES THE FORMATION OF STABLE FUNCTIONAL NETWORKS DURING RULE LEARNING

12:00 p.m – 12:15 p.m – Shawn Herron- MICROGLIA SPECIFIC ABLATION OF MICRO-RNA 155 ENHANCES DISEASE ASSOCIATED MICROGLIA SIGNATURE AND PROTECTS AGAINST AMYLOID BETA INDUCED PATHOLGY IN VIVO
12:15 p.m -12:30 p.m – JaColl Burgess- BASOLATERAL AMYGDALA NETWORK DYNAMICS DURING PREDICTABLE and UNPREDICTABLE FEAR CONDITIONING

Breakout room 7

11:30 a.m -11:45 a.m – Katharine Babcock- INTERFACE ASTROGLIOSIS IN HUMAN BLAST AND IMPACT NEUROTRAUMA

11:45 a.m – 12:00 p.m- Anthony Spinella - HIPPO PATHWAY EFFECTORS YAP AND TAZ ARE NUCLEAR LOCALIZED IN BASAL-LIKE CELLS IN 4MOSC1 ORAL SQUAMOUS CELL CARCINOMA XENOGRAFTS

12:00 p.m – 12:15 p.m- Jess Floro- SDE2 IS AN ESSENTIAL GENE REQUIRED FOR RIBOSOME BIOGENESIS AND THE REGULATION OF ALTERNATIVE SPLICING

12:15 p.m – 12:30 p.m – Anna Smith - MULTIMODULAR APPROACH TO IMPROVE HEPATOCYTE TRANSPLANTATION TO TREAT ALPHA-1 ANTITRYPSIN DEFICIENCY ASSOCIATED LIVER DISEASE

Breakout room 8

11:30 a.m -11:45 a.m – Senegal Carty - PULMONARY LYMPHATIC VESSEL REMODELING IN RESPONSE TO INFLUENZA INFECTION

11:45 a.m – 12:00 p.m – Victoria Volson-sedletsky - FUNCTIONAL CHARACTERIZATION OF THE EXPANDED PD-1+TIGIT+ CD4+ T CELL POULATION IN SYSTEMIC SCLEROSIS

12:00 p.m – 12:15 p.m – Chernoh Sallieu Jalloh - RESTRICTED INFECTION OF MACROPHAGES BY SARS-COV-2 INDUCES PRO-INFLAMMATORY RESPONSES

Breakout room 9

11:30 a.m -11:45 a.m – Devin Kenney - A PANEL OF HUMANIZED MOUSE MODELS UNVEILS KEY IMMUNOREGULATIONS DRIVING EFFECTIVE CONTROL OF SARS-COV-2 INFECTION IN THE HUMAN LUNG

11:45 a.m – 12:00 p.m – Melvin Zhang - IL-13 CONTROLS IL-33 ACTIVITY THROUGH MODULATION OF ST2

12:00 p.m – 12:15 p.m – Stephen Ross - SMALL LEADER-ASSOCIATED RNAs INFORM NEW MODEL FOR TRANSCRIPTION-REPLICATION TRANSITION DURING EBOLA VIRUS INFECTION
Breakout room 10

11:30 a.m -11:45 a.m – Karen Bottenfield - METABOLIC LABELING OF NEWLY SYNTHESIZED MYELIN IN THE Rhesus Monkey Brain

11:45 a.m – 12:00 p.m – Katharine O’Connor - EXPLORING THE VARIOUS OPTIONS FOR THE TREATMENT OF OSTEOMYELITIS

12:00 p.m – 12:15 p.m – Rachel Yuen - iNKT Cell Inhibitory Receptor Signatures are Altered with ART-Suppressed HIV Infection and Aging and Track with Plasma Markers of Inflammation and Coagulation

Breakout room 11

11:30 a.m – 11:45 a.m – Adeline Matschulat - DEFINING MOLECULAR SIGNALS INFLUENCING AIRWAY BASAL CELL FATE

11:45 a.m – 12:00 p.m – Gregory Wirak - AGE-RELATED DECLINE OF NEURONAL FUNCTION IS LINKED TO A LOSS OF INHIBITORY SIGNALING IN C. ELEGANS

12:00 p.m – 12:15 p.m – Jenny Klein - INCREASING ACTIVATION OF THE SONIC HEDGEHOG PATHWAY NORMALIZES DYSREGULATION OF OLIG2 AND NKX2.2 IN TRISOMIC IPSCS DURING PRE-OPC DIFFERENTIATION

Breakout room 12

11:30 a.m -11:45 a.m – Nan Cheng - INHIBITING YAP FOR IMPROVED T CELL ACTIVATION AND ANTI-TUMOR IMMUNITY

11:45 a.m – 12:00 p.m – Matthew Reis - UNDERSTANDING THE MOLECULAR MECHANISM UNDERLYING THE METABOLISM OF THE LONG NON-CODING RNA, TERRA IN MAMMALIAN CANCER

12:00 p.m – 12:15 p.m - Ioanna Yiannakou - SUGAR-SWEETENED BEVERAGE, DIET SODA, AND NON-ALCOHOLIC FATTY LIVER DISEASE OVER 6 YEARS OF FOLLOW-UP: THE FRAMINGHAM HEART STUDY