Wednesday January 10th 2017

6:30 pm  Welcome Reception  Potomac Foyer

Thursday January 11th 2017  Potomac Room

Intra-INIA Research Approaches: Highlights for Future Collaborations
(All research presentations are to be 15 minutes plus 10 minutes discussion)

8:30 am  BREAKFAST

9:00 am  WELCOME  [Drs. Harris, Grant, & Noronha]

9:15 am  SESSION I  INIA-S: Stress Interactions with Alcohol - Neurobehavioral & Endocrine Findings

- 9:15 am  Forced swim stress interactions with excessive drinking in mice [Becker]
  Presenting drinking/BEC data, anxiety measures from Becker, Jones, Vazey, Mulholland & Kash.

- 9:40 am  Stress and excessive drinking in monkeys [Grant]
  Presenting data on drinking/BEC, & endocrine changes as background for Hitzemann, Roberto, Mayfield, Pfefferbaum, Mulholland, Jones, Kash, Lovinger, Cuzon & Carlson.

10:05 am  BREAK

10:20 am  SESSION II  INIA-S: Stress Interactions with Alcohol: Findings from Neurocircuitry Analyses

- 10:20 am  NE changes in FSS-CIE mouse model: drinking, anxiety & cognitive effects [Jones]
  Presenting data on NE content in LC & NTS and projection areas (BLA, NAc, PFC), relation to anxiety & cognition measures from Jones, Vazey & McElligot.

- 10:45 am  Dynorphin/KOR changes in FSS-CIE mouse model: drinking & anxiety effects [Kash]
  Presenting data on dialysis, chemogenetic, and genetic deletion studies in CeA, BNST & NAc from Becker, Jones & Kash.

- 11:10 am  PFC adaptations in FSS-CIE mouse and monkey models: drinking & cognitive effects [Vazey]
  Presenting data from Mulholland, Vazey, & Grant.

- 11:35 am  Chronic alcohol brain adaptations in monkey model: comparison with mouse data [Cuzon & Carlson]
  Presenting data on CeA, BNST, dorsal and ventral striatum, & preliminary chemogenetic findings from Roberto, Jones, Kash, Lovinger & Grant.
12:00 pm   LUNCH

1:00 pm   SESSION III   INIA-N: Alcohol and Neuroimmune Function: Findings from Genomic Analyses

   1:00 pm   Genomics of AUD across species [Hitzemann]
   Comparison of gene expression in humans, NHP and rodent models. Presenting data from Mayfield, Farris & Hitzemann.

   1:25 pm   Linking GR and neuroimmune genomics in AUD [Farris]
   Gene expression changes show coordinate regulation of glucocorticoid and neuroimmune signaling in AUD. Presenting data from Farris, Mayfield, Mason, Becker & Hitzemann.

   1:50 pm   Computational selection and laboratory testing of drugs for AUD [Ozburn]
   Using unbiased analyses of gene expression data to nominate novel compounds. Presenting data from Mayfield, Ozburn, Bell and Crabbe

2:15 pm   BREAK

2:30 pm   SESSION IV   INIA-N: Alcohol and Neuroimmune Function: Signaling and Therapeutics

   2:30 pm   Neuroimmune regulation of alcohol consumption [Blednov]
   Evidence from null mutant mice and pharmacology that immune signaling controls alcohol consumption. Emphasis on TRIF-dependent signaling in PFC. Presenting data from Blednov, Messing & Mayfield.

   2:55 pm   Comparing roles of neurons, astrocytes and microglia in alcohol actions [Mayfield]
   RNAseq of cells isolated from adult brain, or computational approaches, define roles of specific cell types in alcohol consumption. Presenting data from Mayfield, Mulholland, Blednov & Messing.

   3:20 pm   Linking neuroimmune to neuronal functions and behavior [Mangieri]
   How do novel immune mediators interact with old fashioned brain circuitry to alter alcohol effects? Presenting data from Roberto & Mangieri.

3:45 pm   GENERAL DISCUSSION – Topic 1
   How can neuroimmune-stress links be studied across projects?
   [Harris and Grant lead discussion]

4:30 pm   COMMENTS FROM SAB AND NIAAA

5:30 pm   ADJOURN

DINNER ON YOUR OWN
Friday January 12th 2017  Potomac Room

**Cross-INIA Collaborations and Integration**

**7:30 am**  **BREAKFAST**

**8:00 AM**  **SESSION V**  Findings from Translational Imaging Studies

- 8:00 am  Imaging drug action in mice [*Kieffer*]
- 8:25 am  Chronic alcohol effects in rats [*Pfefferbaum/Sullivan/Zahr*]
- 8:50 am  Chronic alcohol effects in monkeys [*Kroenke*]
- 9:15 am  Stress x alcohol effects in humans [*Wand/McCaul*]

**9:40 am**  **BREAK**

**9:55 am**  **SESSION VI**  Findings from Translational Pharmacotherapy Studies

- 9:55 am  Stress targets [*Mulholland*]
  Presenting from Mulholland, Grant, Becker, & Lopez.
  - GR antagonist mifepristone
  - Voltage-gated K channels
  - Oxytocin, Doxazosin

- 10:25 am  Neuroimmune targets [*Lasek*]
  Presenting data from Lasek, Blednov, Bell, & Mason.
  - Alk1 inhibitor (Alectinib)
  - PDE4 inhibitors (rolipram, apremalist)
  - Testing in progress

- 10:55 am  Group discussion of target prioritization

**11:25 am**  **BREAK – Lunch setup**

**11:35 am**  **GENERAL DISCUSSION – Topic 2**

How do we combine genomics and circuitry to better define alcohol actions?  
[*Kash and Hitzemann discussion leaders*]

**12:15 pm**  **COMMENTS FROM SAB AND NIAAA**

**1:00 pm**  **ADJOURN**