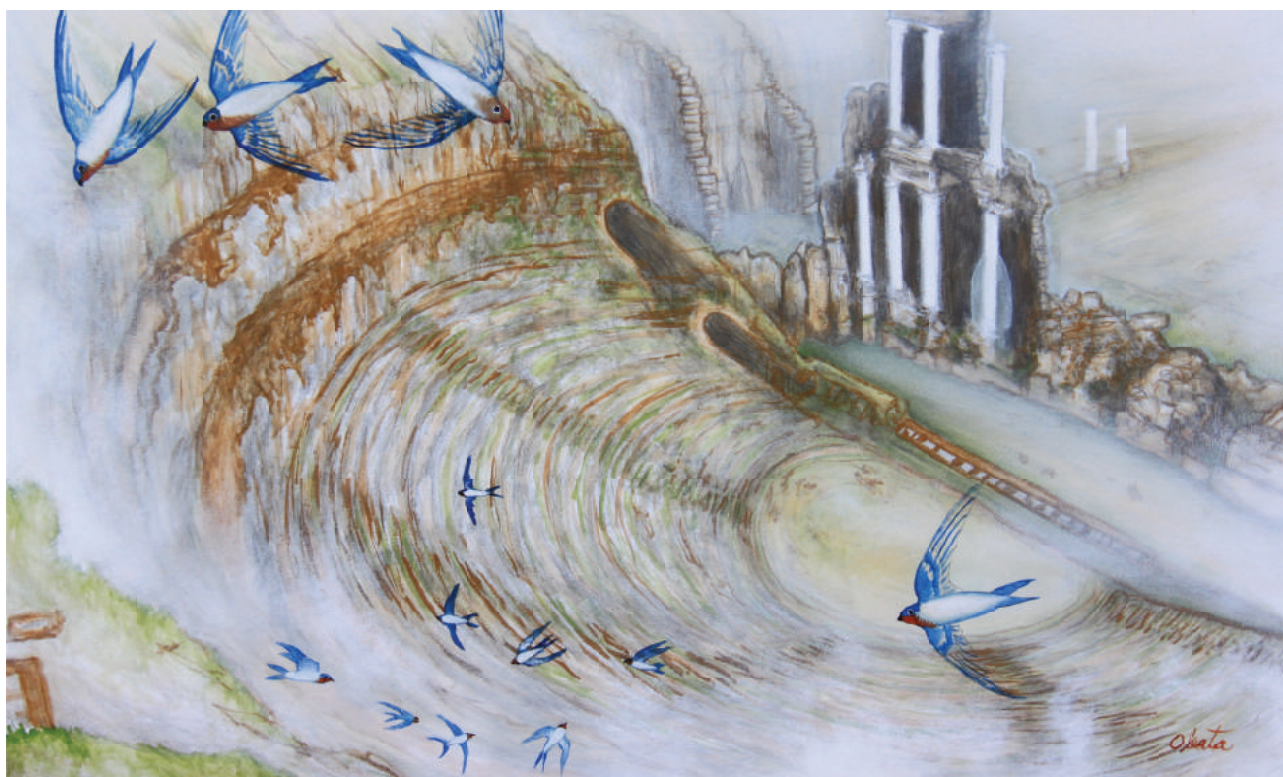


Program

Tuesday, May 9, 2017

- 8:00 a.m. – 8:15 a.m. **Opening Remarks** *Salone Volterra*
Marisa Roberto, Ph.D.,
Gianni Manghetti, Augusto Mugellini, Marco Buselli
- 8:15 a.m. – 9:00 a.m. **Plenary Lecture** *Salone Volterra*
PL1 **Stress, negative reinforcement and compulsive drug seeking**
George F. Koob, Ph.D., National Institute on Alcohol Abuse and Alcoholism
- 9:00 a.m. – 10:30 a.m. **Symposium I** *Salone Volterra*
Endocannabinoid signaling in stress centers as a potential target in alcohol use disorders
This Symposium is dedicated to the Memory of Loren H. Parsons, Ph.D. – Larry
Chair: Danny Winder, Ph.D., Vanderbilt University
- S4 An endocannabinoid mechanism promoting resilience to traumatic stress
Sachin Patel, Ph.D., Vanderbilt University Medical Center
- S5 Endocannabinoid signaling in the amygdala and the regulation of fear and anxiety: not always a clear path
Matthew N. Hill, Ph.D., Hotchkiss Brain Institute, University of Calgary
- S6 Imaging the endocannabinoid system after acute, chronic alcohol abuse and monitored abstinence
Jenny Ceccarini, Ph.D., University Hospitals Leuven & KU
- S7 Diacylglycerol lipase disinhibits VTA dopamine neurons during chronic nicotine exposure
Matthew Buczynski, Ph.D., Virginia Tech School of Neuroscience
- 10:30 a.m. – 11:00 a.m. **Coffee Break** *Foyer Bar*
- 11:00 a.m. – 12:30 p.m. **Symposium II** *Salone Volterra*
Emerging role of Epigenetic reprogramming and synaptic remodeling in alcohol use and alcoholism
Co-Chairs: Subhash C. Pandey, Ph.D., University of Illinois at Chicago
Antonio B. Noronha, Ph.D., National Institute for Alcohol Abuse and Alcoholism
Discussant: A. Leslie Morrow, Ph.D., University of North Carolina, Chapel Hill
- S8 Adolescent alcohol exposure, epigenetic reprogramming and adult psychopathology
Subhash C. Pandey, Ph.D., University of Illinois at Chicago
- S9 Preconception alcohol increases offspring vulnerability to stress via epigenetic programming
Dipak K. Sarkar, Ph.D., Rutgers University
- S10 Efficacy of HDAC1 inhibitors in a new model of binge drinking in rats
Mickael Naassila, Ph.D., University of Picardie Jules Verne
- S11 mTORC1 is a key molecular transducer of alcohol-dependent plasticity, seeking and relapse
Dorit Ron, Ph.D., University of California, San Francisco
- 12:30 p.m. – 1:30 p.m. **Lunch** *Foyer Bar*





1:30 p.m. – 3:00 p.m.

Symposium III

Salone Volterra

Ethanol actions on trafficking of receptors and ion channels

Chair: Mark Brodie, Ph.D., University of IL at Chicago

Discussant: Vincent Seutin, M.D., Ph.D., Université de Liège

- S12 Strong beta-arrestin signaling may cause unwanted effects for drug treatments of alcohol use disorders.
Richard M. van Rijn, Ph.D., Purdue University
- S13 ALK regulates binge alcohol consumption and dopamine D2 receptor trafficking
Amy W. Lasek, Ph.D., University of IL at Chicago
- S14 Genome-wide DNA methylation analysis identifies alcohol-dose dependent regulation of GABA and NMDA receptor trafficking proteins
Rita P. Cervera-Juanes, Ph.D., Oregon National Primate Research Center
- S15 Integrative synaptomics reveals orbitofrontal neuroadaptations and biomarkers in heavy drinking macaques
Patrick Mulholland, Ph.D., Medical University of South Carolina

1:30 p.m. – 3:00 p.m.

Symposium IV

Sala Leonardo 2

Exploring heterogeneity in the stress-alcohol diathesis across the lifespan

Chair: Sarah Jo Nixon, Ph.D., University of Florida

Discussant: Marsha Bates, Ph.D., Rutgers Center of Alcohol Studies

- S16 Intersection between alcohol use and emotion regulation in adolescents undergoing a stressful life event
Sarah Feldstein Ewing, Ph.D., Oregon Health and Science University
- S17 Anxiety, depression, and stress in a high-risk college environment: Improving heart rate variability and neurocardiac signaling to prevent relapse
David Eddie, Ph.D., Massachusetts General Hospital Harvard Medical School
- S18 Exploring the intersection of race, stress, and alcohol use among individuals in treatment
Ben Lewis, Ph.D., University of Florida
- S19 Self-assessed stress-level among elderly seeking treatment for alcohol use disorder. A descriptive study
Anette Sogaard Nielsen, Ph.D., University of South Denmark

3:00 p.m. – 4:00 p.m.

Poster Session & Coffee Break

Sala Leonardo 1 and Foyer Bar

- P94 CeA projections to PAG mediate stress- and alcohol dependence-induced hyperalgesia in rats
Elizabeth M. Avegno, Ph.D., Louisiana State Health Science Center
- P95 Chronic ethanol-induced immune responses in the mouse central amygdala: focus on glia and IL-1 system
Michael Bajo, Ph.D., The Scripps Research Institute
- P96 Circulating gonadal hormones influence alcohol-motivated behavior in male and female rats.
Megan L. Bertholomey, Ph.D., University of Pittsburgh
- P97 Low dose systemic ethanol increases dopamine receptor desensitization and GRK2 mRNA in the ventral tegmental area of C57Bl/6J mice
Mark S. Brodie, Ph.D., University of Illinois at Chicago
- P98 Effects of environmental enrichment on anxiety-like behavior and ethanol intake in C57BL/6 mice
Gabriel de Araújo Costa, Universidade de São Paulo
- P99 Forced abstinence from ethanol intake dysregulates behavioral affect and endocannabinoid control of a BNST circuit
Samuel W. Centanni, Ph.D., Vanderbilt University
- P100 Neural responses to alcohol and negative cues in heavy drinkers and relationships with AUD severity
Eric D. Claus, Ph.D., The Mind Research Network
- P101 Using High Drinking in the Dark (HDID) mice as an animal model to identify drugs to reduce alcohol binge-like drinking
John C. Crabbe, Ph.D., VA Portland Healthcare System
- P102 DNA methylation patterns at prodynorphin gene promoter in alcoholism
Claudio D'Addario, Ph.D., Karolinska Institutet
- P103 RNA-sequencing reveals astrocyte transcriptome alterations in response to chronic ethanol exposure
Emma K. Erickson, University of Texas at Austin
- P104 Genomic signature of PPAR agonists in mouse amygdala: Role in alcohol consumption
Laura B. Ferguson, University of Texas at Austin
- P105 Alcohol dependence alters Substance P/Neurokinin 1 receptor signaling in the central nucleus of the amygdala
Sophia Khom, Ph.D., The Scripps Research Institute
- P106 Oxytocin decreases central amygdala GABAergic signaling in naïve but not alcohol dependent rats
Dean Kirson, Ph.D., The Scripps Research Institute
- P107 Exogenous hypocretin administration in the paraventricular nucleus of the thalamus precipitates ethanol-seeking behavior in rats
*Remi Martin-Fardon, Ph.D., The Scripps Research Institute
& Alessandra Matzeu, Ph.D., The Scripps Research Institute*
- P108 Binge-like alcohol exposure during adolescence has circuit specific effects on dopaminergic neurotransmission in the adult prefrontal cortex
Heather Trantham-Davidson, Ph.D., Medical University of South Carolina
- P109 Alcohol dependence alters IL-1 regulation of GABA transmission in the mouse prelimbic cortex
Florence P. Varodayan, Ph.D., The Scripps Research Institute
- P110 Age-related effects of restraint stress on ethanol intake
Aranza Wille-Bille, Ph.D., Instituto de Investigación Médica Mercedes y Martín Ferreyra
- P111 Chronic-plus-binge alcohol exposure impairs hematopoietic precursor cell activation during the granulopoietic response to bacteremia
Ping Zhang, Ph.D., Northeast Ohio Medical University
- P152 *Effects of ethanol on social avoidance induced by chronic social defeat stress in mice*
Cristiane A. Favoretto



4:00 p.m. – 5:30 p.m.

Symposium V

Sala Leonardo 2

Stress and darkside symptoms in AUDs: clinical, basic, and prevention findings

Chair: Cindy L. Ehlers, Ph.D., The Scripps Research Institute

- S20 Stress and the “dark side” in three different genetic epidemiological cohorts
Cindy L. Ehlers, Ph.D., The Scripps Research Institute
- S21 Amygdalocortical connectivity at rest is associated with increased reactivity to social threat, ACTH, and future ethanol self-administration
Meagan McClintick, Ph.D., University of California, Los Angeles
- S22 Prevention of underage drinking and alcohol use disorders in Native American adolescents: influence of stress and dark side symptoms
David A. Gilder, M.D., The Scripps Research Institute

4:00 p.m. – 5:30 p.m.

Symposium VI

Salone Volterra

Chronic Pain and Alcohol Dependence

Chair: Igor Spigelman, Ph.D., University of California, Los Angeles

- S24 Physical Pain in Alcohol-Dependent Patients Entering Treatment – Prevalence and Risk of Post-treatment Relapse
Marcin Wojnar, Ph.D., Medical University of Warsaw
- S25 Convergence of central pain and stress signaling in alcohol dependence
Scott Edwards, Ph.D., Louisiana State University Health Sciences Center
- S26 Social transfer of alcohol withdrawal induced hyperalgesia
Monique L. Smith, Ph.D., Stanford University
- S27 Altered voluntary alcohol intake after induction and relief of chronic pain symptoms in rats

Wednesday, May 10, 2017

8:00 a.m. - 9:00 a.m.	Plenary Lecture PL3 Sex differences in animal models: focus on stress and addiction <i>Jill B. Becker, Ph.D., University of Michigan, Ann Arbor</i>	<i>Salone Volterra</i>
9:00 a.m. – 10:30 a.m.	Symposium VII Emerging targets for Alcohol Addiction Treatment <i>Co-Chairs: Roberto Ciccocioppo, Ph.D., University of Camerino</i> <i>Koji Teshima, Ph.D., Mitsubishi Tanabe Pharma Corporation</i> <i>Discussant: Friedbert Weiss, Ph.D., The Scripps Research Institute</i>	<i>Salone Volterra</i>
	S28 Epigenetic enzymes as a novel class of targets for disease-modifying pharmacotherapies in alcohol addiction <i>Estelle Barbier, Ph.D., Linköping University</i>	
	S29 Involvement of $\alpha 4\beta 2$ and $\alpha 3\beta 4$ nicotinic receptor subtypes in alcohol taking and seeking <i>Andrea Cippitelli, Ph.D., Torrey Pines Institute for Molecular Studies</i>	
	S30 Lysophosphatidic acid receptor-1: a protective receptor on alcoholism? Preclinical and clinical studies <i>Fernando Rodríguez de Fonseca, Ph.D., Instituto IBIMA de Málaga</i>	
	S31 Phosphodiesterase type 7 inhibition: A novel mechanism for reduction of alcohol drinking and relapse to alcohol seeking <i>George A. Gaitanaris, M.D., Ph.D., Omeros Corporation</i>	
10:30 a.m. – 11:00 a.m.	Coffee Break	<i>Foyer Bar</i>
11:00 a.m. – 12:30 p.m.	Symposium VIII Alcoholism and the Prefrontal Cortex <i>Chair: L. Judson Chandler, Ph.D., Medical University of South Carolina</i>	<i>Salone Volterra</i>
	S32 Prefrontal cortex and cognitive and emotional deficits in alcohol use disorders <i>Theodora Duka, Ph.D., University of Sussex</i>	
	S33 Bidirectional regulation of response strategy by cortico-accumbens projections <i>Jaqueline Barker, Ph.D., Medical University of South Carolina</i>	
	S34 Altered communication of mPFC neuronal networks in post-dependent rats <i>Wolfgang H. Sommer, M.D., Ph.D., Central Institute of Mental Health, Mannheim</i>	
	S35 How do we drink despite consequences: exploring the hypothesis that the Insula instigates AUDs <i>Frederic Hopf, Ph.D., University of California, San Francisco</i>	
12:30 p.m. – 1:30 p.m.	Lunch	<i>Foyer Bar</i>





1:30 p.m. – 3:00 p.m.

Symposium IX

Salone Volterra

Brain Stress Systems in Excessive Alcohol Drinking

Co-Chairs: *Robert O. Messing M.D., University of Texas at Austin*
Igor Spigelman, Ph.D., University of California, Los Angeles

- S39 Chronic alcohol-related neural and peripheral stress system dysfunction: effects on alcohol craving, relapse and recovery
Rajita Sinha, Ph.D., Yale University School of Medicine
- S36 Chronic alcohol disrupts glutamatergic synaptic plasticity of hypothalamic parvocellular neurosecretory cells, and hormonal as well as behavioral responses to repeated stress
Vincent Marty, Ph.D., University of California, Los Angeles
- S38 A distributed CRF network in rat extended amygdala regulates anxiety and excessive alcohol drinking
Robert O. Messing M.D., University of Texas at Austin
- S37 Interaction of CRF and kappa opioid systems on GABAergic neurotransmission in the mouse central amygdala
Scott D. Moore, M.D., Ph.D., Duke University Medical Center

1:30 p.m. – 3:00 p.m.

Symposium X

Sala Leonardo 2

Stress vulnerability and alcohol use and consequences from human laboratory studies to clinical outcomes

Chair: *Vijay A. Ramchandani, Ph.D., National Institute on Alcohol Abuse and Alcoholism*
Discussant: *Samir Zakhari, Ph.D., Distilled Spirit Council of the United States*

- S40 A novel human experimental model of stress-induced alcohol self-administration in binge and non-binge drinkers
Bethany L. Stangl, Ph.D., National Institute on Alcohol Abuse and Alcoholism
- S41 Binge-heavy alcohol alters cortisol and subjective craving: impact on compulsive alcohol motivation and intake
Sarah K. Blaine, Ph.D., Yale University School of Medicine
- S42 Gender Differences in How Stress Affects Intravenous Alcohol Administration
Martin Plawecki, Ph.D., Indiana University School of Medicine
- S43 Childhood trauma in alcohol dependence: vulnerability and relative resilience
Melanie L. Schwandt, Ph.D., National Institute on Alcohol Abuse and Alcoholism



3:00 p.m. – 4:00 p.m.

Poster Session & Coffee Break

Sala Leonardo 1 & Foyer Bar

- P112 Retrieval of nicotine-associated memories from adolescence enhances alcohol intake in adulthood
Segev Barak, Ph.D., Tel Aviv University
- P113 Post-retrieval extinction can attenuate recovery and reinstatement of conditioned reactivity to alcohol cues in Long-Evans rats
Roberto U. Cofresi, University of Texas at Austin
- P114 Acute and chronic effects of alcohol on autonomic function during sleep
Ian M. Colrain, Ph.D., SRI International
- P115 Multi-dimensional characterization of an alcohol dependence-prone phenotype in rats
Ana Domi, M.Pharm., University of Camerino
- P116 The novel kappa opioid receptor antagonist CERC-501 attenuates alcohol seeking and withdrawal anxiety
- P117 Withdrawn.
Esi Domi, M.Pharm., Linkoping University
- P118 Stress and drinking to cope in recidivist DUI offenders
Mark T. Filmore, Ph.D., University of Kentucky
- P119 Family history density of alcoholism and blood pressure as moderators for drinking reduction in alcohol-dependent individuals treated with doxazosin
Kimberly Goodyear, Ph.D., Brown University
- P120 Age related differences in anxiety-like behavior and amygdalar CCL2 responsiveness to stress following alcohol withdrawal
Kathryn M. Harper, Ph.D., University of North Carolina
- P121 Adaptations in basal and hypothalamic-pituitary-adrenal-mediated deoxycorticosterone responses following ethanol self-administration in cynomolgus monkeys
Vanessa A. Jimenez, Oregon National Primate Research Laboratory
- P122 Effects of oxytocin on stress-induced reinstatement of alcohol-seeking in mice with and without a history of stress
Courtney E. King, Medical University of South Carolina
- P123 Neuroadaptations in cingulate cortex glucocorticoid signaling in alcohol dependence
M. Adrienne McGinn, Louisiana State University Health Sciences Center
- P124 Effects of chronic ethanol exposure and withdrawal on glutamatergic signaling at two afferent projections into the rat lateral/basolateral amygdala
Molly M. McGinnis, Wake Forest School of Medicine
- P125 Gonadal hormones contribute to alcohol consumption in response to exercise restriction
Colleen E. McGonigle, Bucknell University
- P126 Altered sensitivity to the anxiolytic and rewarding properties of alcohol in mice which carry the BDNF valine 68 to methionine polymorphism
Samuel A. Sakhai, Ph.D., University of California, San Francisco
- P127 Predator odor stress activates corticotropin-releasing factor (CRF) neurons in rat brain
Allyson P. Schreiber, Louisiana State University Health Sciences Center
- P128 Orexin/hypocretin receptor 2 (HCRTR2) in alcohol dependence diagnosis and severity: role of HCRTR2 rs2653349 polymorphism.
Primavera A. Spagnolo, M.D., Ph.D., National Institute on Alcohol Abuse and Alcoholism
- P129 Ketamine inoculation immediately after forced ethanol abstinence blocks the development of time-dependent affective disturbances
Oliver Vranjkovic, Ph.D., Vanderbilt University
- P170 The role of the Periaqueductal Gray Area in maladaptive emotional and behavioral responses stemming from alcohol dependence
Emily Lowery-Gionta, Ph.D., National Institute on Drug Abuse
- P173 Young alcohol binge drinkers show immune/inflammatory alterations with higher susceptibility of women: correlations with neuropsychological abilities
Laura Orío, Ph.D., Complutense University of Madrid

4:00 p.m. – 5:30 p.m.

Symposium XI

Sala Leonardo 2

Cross-species molecular dissection across alcohol behavioral domains

Co-Chairs: *Sean P. Farris, Ph.D., University of Texas at Austin*

Dayne Mayfield, Ph.D., University of Texas at Austin

Discussant: *Rosana Camarini, Ph.D., Universidade de São Paulo*

- S44 Integrative analysis of human and non-human primate brain tissue for alcohol consumption
Sean P. Farris, Ph.D., University of Texas at Austin
- S45 Cross-species convergence in the genetics of ethanol response and alcohol dependence
Brien P. Riley, Ph.D., Virginia Commonwealth University
- S46 Systems genetics of substance use disorders: resources, methods, challenges, successes
Robert W. Williams, Ph.D., University of Tennessee Health Science Center
- S47 Brain transcriptional changes in the mouse and macaque associated with excessive ethanol consumption
Robert Hitzeman, Ph.D., Oregon Health and Science University

4:00 p.m. – 5:30 p.m.

Symposium XII

Salone Volterra

Neurobiological differences and similarities between models of dependence and vulnerability to alcoholism

Chair: *Anushree N. Karkhanis, Ph.D., Wake Forest School of Medicine*

Discussant: *Selena Bartlett, Ph.D., Queensland University of Technology*

- S48 Forced swim stress-escalated alcohol drinking and BNST kappa opioid receptors
Lara S. Hwa, Ph.D., University of North Carolina School of Medicine
- S49 Chemogenetic and optogenetic control of excessive alcohol drinking through inactivation of a neuronal ensemble in the central amygdala
Olivier George, Ph.D., The Scripps Research Institute
- S50 CRF modulation in VTA-DRN escalates alcohol and cocaine intake after social stress
Klaus Miczek, Ph.D., Tufts University
- S51 Social isolation stress increases kappa opioid receptor function on dopamine terminals in the nucleus accumbens of rats
Anushree N. Karkhanis, Ph.D., Wake Forest School of Medicine



Thursday, May 11, 2017

8:00 a.m. - 9:00 a.m.	Plenary Lecture PL2 Habitual behavior in addiction & stress: neurogenetic approaches to PTSD comorbidity <i>Kerry Ressler, M.D., Ph.D., Harvard Medical School</i>	<i>Salone Volterra</i>
9:00 a.m. – 10:30 a.m.	Symposium XIII Translational approaches to alcohol dependence <i>Chair: Angelo Bifone, Ph.D., Istituto Italiano di Tecnologia</i> <i>Discussant: Karl Mann, M.D., Central Institute of Mental Health</i>	<i>Salone Volterra</i>
	S52 Synaptic plasticity, optogenetics and emerging treatments against substance use disorders <i>Antonello Bonci, M.D., National Institute of Drug Abuse</i>	
	S53 Functional and pharmacological MRI in drug and alcohol addiction: a translational perspective <i>Angelo Bifone, Ph.D., Istituto Italiano di Tecnologia</i>	
	S54 Development of functional and structural brain alterations in longitudinal models of high alcohol consumption and abstinence <i>Santiago Canals, Ph.D., Consejo Superior de Investigaciones Cientificas</i>	
	S55 Translational FDG-PET studies in alcohol and cocaine addicted rats <i>Rainer Spanagel, Ph.D., Central Institute of Mental Health</i>	
10:30 a.m. – 11:00 a.m.	Coffee Break	<i>Foyer Bar</i>
11:00 a.m. – 12:30 p.m.	Young Investigator Symposium <i>Co-Chairs: Fulton T. Crews, Ph.D., University of North Carolina at Chapel Hill</i> <i>Antonio Noronha, Ph.D., National Institute on Alcohol Abuse and Alcoholism</i>	<i>Salone Volterra</i>
	Y84 A chimeric approach to evaluate the role of corticotropin releasing factor in alcohol use disorder <i>Carolina Haass-Koffler, Ph.D., Brown University</i>	
	Y85 Inputs from the medial prefrontal cortex to the rostromedial tegmental nucleus are involved in signaling the aversive properties of alcohol <i>Elizabeth Glover, Ph.D., Medical University of South Carolina</i>	
	Y86 A thalamo-limbic neuropeptide circuit driving binge drinking behavior <i>Kristen E. Pleil, Ph.D., Weill Cornell Medicine</i>	
	Y87 Adolescent stress-induced social anxiety: a role for basolateral amygdala kappa opioid receptors <i>Marvin R. Diaz, Ph.D., Wake Forest University</i>	
	Y88 Differential tonic inhibition and ethanol effects in the central and lateral amygdala Corticotropin Releasing Factor receptor 1 (CRF1) circuitry <i>Melissa A. Herman, Ph.D., University of North Carolina at Chapel Hill</i>	
	Y89 Regulation of NMDA receptors and plasticity in the BNST following adolescent alcohol exposure <i>Tiffany A. Wills, Ph.D., Louisiana State University School of Medicine</i>	
12:30 p.m. – 1:30 p.m.	Lunch	<i>Foyer Bar</i>





1:30 p.m. – 3:00 p.m.

Symposium XIV

Sala Leonardo 2

Role of early life environment, co-morbid depression, neurochemical regulation and epigenetic reprogramming in stress abnormalities in fetal alcohol spectrum disorders

Chair: Dipak Sarkar, Ph.D., Rutgers University

- S56 Interactions of early-life stress and prenatal alcohol exposure on executive control
Jonathan L. Brigman, Ph.D., University of New Mexico School of Medicine
- S57 Co-occurring maternal depression and prenatal alcohol exposure: Multimodal MRI findings in the infant brain
Kirsty Donald, Ph.D., University of Cape Town
- S58 Prenatal alcohol exposure: Fetal programming, alcohol-stress interactions, and sex differences in outcome
Joanne Weinberg, Ph.D., University of British Columbia
- S59 Choline supplementation attenuates severity of hippocampal BDNF reductions caused by developmental alcohol exposure
Jennifer Thomas, Ph.D., San Diego State University

1:30 p.m. – 3:00 p.m.

Symposium XV

Salone Volterra

Sex matters in stress-alcohol interactions

Chair: Marian L. Logrip, Ph.D., Indiana University - Purdue University Indianapolis
Discussant: Amy W. Lasek, Ph.D., University of Illinois at Chicago

- S60 Myelinated axons increase in the anterior cingulate cortex early in adolescence and are negatively impacted by alcohol
Heather N. Richardson, Ph.D., University of Massachusetts, Amherst
- S61 Sex differences in alcohol seeking behaviors and their modulation by acute and chronic stress
Mary Torregrossa, Ph.D., University of Pittsburgh
- S62 Differential susceptibility of male and female amygdala to corticosterone and alcohol
Marian L. Logrip, Ph.D., Indiana University - Purdue University Indianapolis
- S63 Sex differences and the role of sex hormones in stress reactivity, emotion regulation and craving in drug and alcohol dependence
Verica Milivojevic, Ph.D., Yale University

3:00 p.m. – 4:00 p.m.

Poster Session & Coffee Break

Sala Leonardo 1 and Foyer Bar

- P130 The Nociceptin/Orphanin FQ receptor agonist SR-8993 as a candidate therapeutic for alcohol use disorders: validation in rat models
Abdul Maruf Asif Aziz, M.Sc., Linköping University
- P131 A novel NOP receptor antagonist decreases alcohol behavior in Marchigian Sardinian Alcohol-Preferring (msP) rats
Anna M. Borruto, University of Camerino
- P132 Reward sensitivity as a mechanism linking social stress with binge drinking in justice-involved adolescents
Justin D. Caouette, Ph.D., Oregon Health and Science University
- P133 Influence of habitual negative affect on processing of negative facial stimuli in alcoholic patients
Katrin Charlet, Ph.D., Charité – Universitätsmedizin Berlin
- P134 Adolescent social isolation increases excitatory synaptic activity and impairs long term depression in the rat nucleus accumbens core
Sarah E. Ewin, Wake Forest School of Medicine
- P135 Non-substance related addictive disorders: Stress reactivity and relationship to problematic alcohol consumption
Rebecca J. Gilbertson, Ph.D., University of Minnesota Duluth
- P136 Optogenetic characterization of CeA CRF pathways in alcohol dependence
Giordano de Guglielmo, Ph.D., The Scripps Research Institute
- P137 Cortical and thalamic inputs to the nucleus accumbens bi-directionally modulate ethanol consumption in C57BL/6J mice
Harold L. Haun, Medical University of South Carolina
- P138 Rapid antidepressant synapse formation requires GABAB receptor-activation of mTORC1
Chelcie F. Heaney, Ph.D., Wake Forest School of Medicine
- P139 Estrogen enhances ethanol and dopamine effects on ventral tegmental neurons from female mice
Amy W. Lasek, Ph.D., University of Illinois at Chicago
- P140 Family history of problematic alcohol use, stress, and delay discounting: A moderated mediation analysis
Lidia Z. Meshesha, M.S., University of Memphis
- P141 Paradoxical effects of the cortisol response to stress: More cravings now, less alcohol use later
Nicole Y. L. Oei, Ph.D., University of Amsterdam
- P142 Cortical Integration of Chronic Stress and Alcohol Dependence: A Possible Role for KCa2 Channels
Audrey E. Padula, Medical University of South Carolina
- P143 Dysregulation of hippocampal and frontocortical JNK signaling in alcohol dependence
Amanda R. Pahng, Ph.D., Louisiana State University Health Sciences Center
- P144 Evaluation of plasma chemokines in patients with alcohol use disorders: association of CCL11 (Eotaxin-1) with comorbid mental disorders
Francisco Javier Pavón, Ph.D., IBIMA-Hospital Regional Universitario de Málaga
- P145 Racial differences in stress-induced HPA reactivity in alcohol-dependent men
Julianne Price, University of Florida
- P146 Changes in anxiety-like behavior and CRF gene expression in the basolateral amygdala of Lim-domain-only 3 (Lmo3) knockout mice
Antonia M. Savarese, University of Illinois at Chicago
- P147 Long-term effects of intermittent alcohol exposure during adolescence on neurobiological substrates of emotion: a role for the endogenous cannabinoid system and neuroinflammation
Laura Sanchez, Ph.D., IBIMA-Hospital Regional Universitario de Malaga
- P148 Mathematical modeling of ethanol/stress interactions
Vladana Vukojević, Ph.D., Karolinska Institutet
- P149 Activation of PPAR γ modulates the mesolimbic dopamine transmission and attenuates alcohol drinking in alcohol-preferring rats
Fotio Yannick, University of Camerino
- P150 Nicotinamide adenine dinucleotide reverses hepatic molecular chaperones abnormalities and alleviates experimental alcoholic steatohepatitis in mice
Min You, Ph.D., Northeast Ohio Medical University



4:00 p.m. – 5:30 p.m.

Symposium XVI

Sala Leonardo 2

Feeding- and stress-related neuroendocrine pathways in alcohol use disorder: recent findings

Co-Chairs: *Lorenzo Leggio, M.D., Ph.D., M.Sc. & Falk Kiefer, M.D.*

Discussant: *Leandro Vendruscolo, Ph.D., National Institute of Drug Abuse*

- S64 Recent results on ghrelin in alcohol use disorders
Anne Koopmann, M.D., Central Institute of Mental Health
- S65 Ghrelin and GLP-1 as potential new pathways toward medication development for alcohol use disorder: recent clinical data
Lorenzo Leggio, M.D., Ph.D., M.Sc., National Institutes of Health
- S66 Oxytocin blocks compulsive-like alcohol drinking in rats
Brendan Tunstall, Ph.D., National Institute on Drug Abuse
- S67 Oxytocin reduces alcohol self-administration and stress-induced alcohol relapse behavior in mice
Howard C. Becker, Ph.D., Medical University of South Carolina

4:00 p.m. – 5:30 p.m.

Symposium XVII

Salone Volterra

Targeting cognitive aspects of addiction to treat alcohol use disorder

Chair: *Donita L. Robinson, Ph.D., University of North Carolina at Chapel Hill*

- S68 Dopamine signaling in the nucleus accumbens can bidirectionally regulate ethanol seeking behavior
Evgeny Budygin, Ph.D., Wake Forest School of Medicine
- S69 Studying behavioural control in rodents and humans
Dai Stephens, Ph.D., University of Sussex
- S70 Neurocognitive endophenotypes for hazardous alcohol use
Charlotte Boettiger, Ph.D., University of North Carolina at Chapel Hill
- S71 Examining phenotype by treatment interactions in alcohol use disorder clinical trials
Katie Witkiewitz, Ph.D., University of New Mexico

Friday, May 12, 2017

8:30 a.m. - 10:00 a.m.	Symposium XVIII Role of Dynorphin/KOR System in Stress-Alcohol Interactions <i>Chair: Howard C. Becker, Ph.D., Medical University of South Carolina</i> <i>Discussant: Sarah R. Jones, Ph.D., Wake Forest School of Medicine</i>	Salone Volterra
	S72 Systemic and site-specific inactivation of the kappa opioid receptor system reduces binge-like drinking and stress-enhanced ethanol consumption in dependent C57BL/6J mice <i>Rachel I. Anderson, Ph.D., Medical University of South Carolina</i>	
	S73 Regulation of dopamine and dynorphin/KOR function by chronic ethanol and withdrawal in mice and monkeys <i>Katherine M. Holleran, Ph.D., Wake Forest Baptist Health</i>	
	S74 Alcohol drinking induced alterations in dynorphin signaling in the extended amygdala <i>Daniel Bloodgood, B.S., University of North Carolina, Chapel Hill</i>	
	S75 Circuit dynamics of <i>in vivo</i> dynorphin release in the nucleus accumbens <i>Ream Al-Hasani, Ph.D., Washington University in St. Louis</i>	
10:00 a.m. – 10:30 a.m.	Coffee Break	Foyer Bar
10:30 a.m. – 12:00 p.m.	Roundtable Clinical Treatments <i>Chair: Barbara J. Mason, Ph.D., The Scripps Research Institute</i>	Salone Volterra
	R90 Dopaminergic hypofunction in alcohol dependence: from rodents to humans. <i>Marco Diana, M.D., Ph.D., University of Sassari</i>	
	R91 A human laboratory study of mifepristone as a novel treatment for alcohol use disorder <i>Barbara J. Mason, Ph.D., The Scripps Research Institute</i>	
	R92 Digital technology for the discovery and managements of novel treatments for alcoholism and psychiatric disorders: a quantum leap? <i>Emilio Merlo Pich, M.D., Imperial College London</i>	
	R93 Effect of the mGluR5 modulator GET 73 on alcohol pharmacokinetics and pharmacodynamics and alcohol craving in a human laboratory model <i>Robert Swift, Ph.D., Brown University</i>	
12:00 p.m. – 1:00 p.m.	Lunch	Foyer Bar
1:00 p.m. – 2:30 p.m.	Symposium XIX Neuroimmune signaling, stress and alcoholic pathology <i>Chair: Fulton T. Crews, Ph.D., University of North Carolina at Chapel Hill</i>	Salone Volterra
	S76 Neuroimmune regulation of alcohol consumption <i>R. Adron Harris, Ph.D., University of Texas at Austin</i>	
	S77 Gender differences in alcohol-induced immune response in human and animal adolescents with binge drinking: role of TLR4 <i>Consuelo Guerri, Ph.D., Principe Felipe Research Center</i>	
	S78 NLRP3/ASC inflammasome activation and micro-RNA-155 contribute to alcohol-induced neuroinflammation <i>Gyongi Szabo, M.D., Ph.D., University of Massachusetts Medical School</i>	
	S79 Toll-like receptors, alcohol and stress-induced changes in neurobiology <i>Fulton Crews, Ph.D., University of North Carolina at Chapel Hill</i>	





2:30 p.m. – 3:30 p.m.

Poster Session and Coffee Break

Sala Leonardo 1 and Foyer Bar

- P151 Adolescent social isolation differentially affects synaptic function and plasticity along the dorsoventral axis of the hippocampus
Antoine G. Almonte, Ph.D., Wake Forest School of Medicine
- P153 Extra-hypothalamic CRF-1 receptor mechanisms in frustration stress-induced binge-like palatable food consumption in female rats
Carlo Cifani, Ph.D., University of Camerino
- P154 Assessing the contribution of somatostatin-positive interneurons in the drinking in the dark binge-like ethanol consumption model
Nikki Crowley, Ph.D., Pennsylvania State University
Bernhard Luscher, Ph.D., Pennsylvania State University
- P155 Microdialysis of norepinephrine in prefrontal cortex and ventral striatum and effects of ethanol in the Long Evans rat
Saul Jamie, M.S., University of Texas at Austin
- P156 Noradrenergic adaptation and the morphine dependent brain
Brennon Luster, Ph.D., Pennsylvania State University
- P157 Inhibition of N-acylethanolamine acid amidase reverses effects of chronic binge ethanol drinking on ventral tegmental area dopamine neuron firing
Regina A. Mangieri, Ph.D., University of Texas at Austin
- P158 Intrinsic properties of central amygdala dynorphin neurons
Jordan G. McCall, Ph.D., Washington University in St. Louis
- P159 Beta-endorphin modulates binge-like ethanol drinking in mice
Todd B. Nentwig, Bucknell University
- P160 Restoration of Kv7.2/7.3 channel signaling reduces dependence-induced escalation of ethanol consumption
Jennifer A. Rinker, Ph.D., Medical University of South Carolina
- P161 Behavioral flexibility in conditioned responding to a reward cue: the role of the orbitofrontal cortex and adolescent intermittent ethanol exposure
Donita L. Robinson, Ph.D., University of North Carolina at Chapel Hill
- P162 Effect of SB-277011-A, a D3 selective antagonist, on resting state functional connectivity in Wistar rats
Giulia Scuppa, Ph.D., Istituto Italiano di Tecnologia
- P163 Voluntary activity wheel running attenuates chronic intermittent ethanol induced escalation of ethanol consumption in C57BL/6J mice
Matthew G. Solomon, Ph.D., Medical University of South Carolina
- P164 Alcohol's effects on pair bond maintenance in male prairie voles
André T. Walcott, Oregon Health and Science University
- P165 TLR3 activation increases voluntary alcohol consumption
Anna S. Warden, University of Texas at Austin
- P166 Stress, coping, and alcohol use in young adulthood
Helene R. White, Ph.D., Rutgers, the State University of New Jersey
- P167 The acute alcohol transcriptome parallels that of rapid antidepressants
Sarah A. Wolfe, The University of Texas at Austin
- P168 Histone methylation involvement in lasting memory deficits and ethanol sensitivity after binge ethanol in adolescents
Jennifer T. Wolstenholme, Ph.D., Virginia Commonwealth University
- P171 Withdrawal from chronic intermittent ethanol engages a circuit in the bed nucleus of the stria terminalis that promotes anxiety and fear-related behavior.
Catherine A. Marcinkiewicz, Ph.D., University of North Carolina at Chapel Hill
- P172 Consequences of continuous social defeat stress on ethanol-induced corticosterone responses and brain monoamines
Isabel M. Quadros, Ph.D., Universidade Federal de São Paulo

3:30 p.m. – 5:00 p.m.

Symposium XX

Salone Volterra

Translational approaches targeting the neural substrates of comorbid anxiety/stressor-

related disorders and alcoholism

Chair: Jeffrey L. Weiner, Ph.D., Wake Forest School of Medicine

Discussant: Neil L. Harrison, Ph.D., Columbia University Medical Center

- S80 Traumatic stress effects on brain CRFR1 signaling, nociception & alcohol drinking
Nicholas Gilpin, Ph.D., Louisiana State University Health Sciences Center New Orleans
- S81 Exacerbation of the inherent “anxiety” state by unpredictability of alcohol access
in Sardinian alcohol-preferring rats
Giancarlo Colombo, M.D., National Research Council of Italy
- S82 Adolescent social isolation as a rodent model of heightened vulnerability to comorbid
anxiety/stressor-related disorders and alcoholism
Jeffrey L. Weiner, Ph.D., Wake Forest School of Medicine
- S83 Genetic and Neural Correlates of Stress-related Psychiatric Disorders and Alcoholism
Ryan Bogdan, Ph.D., Washington University in St. Louis

7:00 p.m. – 10:00 p.m.

Closing Dinner

Ristorante Molino D’Era

Notes: