PROGRAM

Tuesday JULY 10, 2012

7.00-9.00 AM Registration

7:30-8:45 AM Travel Award Breakfast/ Registration

9.00-9.15 AM Theatrum anatomicum
Welcome and Irvine Page lecture presentation

9.15-10.15 AM Theatrum anatomicum
IRVINE PAGE LECTURE: Elaine Sanders-Bush, Vanderbilt University School of Medicine, Nashville, USA
“A life-long journey with serotonin: Then, now and the future”

10.15-10.45 AM Coffee break

10.45 AM-12.45 PM Theatrum anatomicum
SYMPOSIUM 1
“Regulation of 5-HT neurochemistry and behavior by unsuspected “villains”: Implications for psychiatric disorders and drug abuse.”
Chair: Lynette C. Daws
University of Texas Health Science Center, San Antonio, USA

1. “Impact of feeding conditions on sensitivity to drugs acting on 5-HT and DA systems: Implications for drug abuse and psychotherapeutics.”
Charles P. France, University of Texas Health Science Center, San Antonio, USA

2. “Serotonin transporter genotype and early life stress interactions in psychiatric disorders and addiction: Are organic cation transporters to blame?”
Lynette C. Daws, University of Texas Health Science Center, San Antonio, USA

3. “Peripheral immune system regulation of brain serotonin homeostasis.”
Randy D. Blakely, Vanderbilt University, Nashville, USA

4. “The proaddictive effects of stress exposure are mediated by increased serotonin transporter function through kappa receptors activation of p38alpha MAPK in the ventral striatum.”
Abigail Schindler, University of Washington, Seattle WA, USA
NIDA Travel Awardee

12.45-2.00 PM LUNCH (1.00-2.00 PM Business Meeting)

2.00-4.00 PM Theatrum anatomicum
SYMPOSIUM 2
“Putting the pieces together: Integrating dopamine, serotonin, reward and aversion.”
Chair: John Neumaier, University of Washington, Seattle, USA
1. “Striatal 5-HT6 receptors: Opposing dopamine.”
   John Neumaier, University of Washington, Seattle, USA

2. “5-HT2AR and 5-HT2CR balance in decision-making and cocaine reward.”
   Kathryn A. Cunningham, University of Texas Medical Branch, Galveston, USA

3. “Affective and decision functions of serotonin and dopamine.”
   Molly Cockett, University of Zurich, Switzerland

4. “The influence of serotonin-1B receptors on cocaine-abuse related behaviors.”
   Nathan Pentkowski, Arizona State University, Arizona USA
   NIDA Travel Awardee

4.00-4.30 PM Coffee break

4:30-6:00 PM Theatrum anatomicum
FRONTIERS IN SEROTONIN RESEARCH: PIONEERS AND PRODIGIES
Chairs and discussants: Page and Rapport lecturers past and present

1. Postnatal antidepressant treatment vs constitutive SERT deficiency produce opposing changes in presynaptic 5-HT1A responses and emotion-related behavior in adolescent and adult mice.
   Stephanie Altieri, Pennsylvania State University, University Park, PA, USA
   NIDA Travel Awardee

2. Decynium-22 enhances SSRI-induced antidepressant effects in mice: Uncovering new targets to treat depression.
   Deana Apple, University of Texas Health Science Center, San Antonio TX, USA
   NIDA Travel Awardee

3. Autoinhibition in dorsal raphe is mediated by local release of serotonin.
   Daniel Huereca, Wayne State University School of Medicine, Detroit, MI, USA
   NIDA Travel Awardee

4. Synergistic suppression of cocaine-evoked elevations in motility and cortical serotonin 5-HT2C receptor (5-HT2CR) expression by combined administration of a selective 5-HT2AR antagonist plus a 5-HT2CR agonist.
   Sarah Swinford, University of Texas Medical Branch, Galveston, TX, USA
   NIDA Travel Awardee

5. Schizophrenia-like disruption of sensory gating by serotonergic stimulation in rats: comparison with dopamine and NMDA receptors.
   Shane Thwaites, University of Melbourne, Australia
   NIDA Travel Awardee

5.30-8.30 PM POSTER SESSION, Salle Dugès with wine and cheese

Wednesday JULY 11, 2012

8.00-9.00 AM Theatrum anatomicum
Maurice RAPPORT LECTURE: Ewan Mylecharane, University of Sydney, Australia
“Serotonin and the Australian connection: the science and the people”
9.00-11.00 AM Theatrum anatomicum

SYMPOSIUM 3

“Serotonergic neurons and adaptive responses to emergency situations: A focus on autonomic and nociceptive systems.”
Chair: Véronica Fabre
Université Pierre et Marie Curie-Paris 6, Paris, France

1. “Involvement of lateral paragigantocellular serotonergic cells in nociceptive and cardiovascular processing.”
Jean-François Bernard, Université Pierre et Marie Curie-Paris 6, Paris, France

2. “Regulation of breathing by medullary raphe serotonergic neurons in conscious or anesthetized rodents.”
Patrice Guyenet, University of Virginia School of Medicine, Charlottesville, USA

3. “Central chemoreception by serotonin neurons of the raphe.”
George B. Richerson, The University of Iowa, Iowa City, USA

4. “Inducible, repeatable and specific inhibition of serotonergic neurons in vivo reveals their essential roles in mammalian physiology and behavior.”
Susan Dymecki, Harvard Medical School, Boston, USA

11.00-11.30 AM Coffee break

11.30 AM-1.30 PM Theatrum anatomicum

SYMPOSIUM 4

“Multiple facets of serotonin: placenta, blood, bone connection.”
Chair: Francine Côté, CNRS UMR 8142, Hôpital Necker, Paris, France

Cathy Vaillancourt, Université de Québec, Laval, Canada

2. “Key function of serotonin in erythrocyte production and survival.”
Edouard Kouassi, Université de Montréal, Montréal, Canada

3. “Serotonergic system and bone cells: New paracrine autocrine pathways.”
Corinne Collet, Hôpital Lariboisière, Paris, France

4. “Serotonin receptor 5-HT2B potentiates interferon-y production by activating T lymphocytes.”
Marie-Eve Koué, University of Montréal, Montréal, Canada
NIDA Travel Awardee

1.30-2.30 PM LUNCH

2.30-4.30 PM Theatrum anatomicum

SYMPOSIUM 5

“Serotonin transporter redux 2012.”
Chair: Kathryn A. Cunningham, University of Texas Medical Branch, Galveston, USA

Randy D. Blakely, Vanderbilt University, Nashville, USA
2. “Role of PIP2 and PLC in mediating amphetamine-evoked alterations in SERT function.”
   Harald Sitte, Medical University of Vienna, Vienna, Austria

3. “SERT as a therapeutic target for cocaine dependence.”
   F. Gerard Moeller, University of Texas Health Science Center at Houston, Houston, USA

4. “Examining the interaction between 5-HT1B receptors and SERT.”
   Yusha (Katie) Liu, University of Washington, Seattle, USA
   NIDA Travel Awardee

4.30-5.00 PM Coffee break

5.00-7.00 PM Theatrum anatomicum
   **SYMPOSIUM 6**
   “Serotonin in the cardiovascular system: New findings on an old transmitter.”
   Chair: Luc Maroteaux, Hôpital Pitié-Salpetrière, INSERM U839, Paris, France
   Co-Chair: Stephanie Watts, Michigan State University, East Lansing, USA

1. “The serotonin transporter (SERT) in blood pressure regulation.”
   Stephanie Watts, Michigan State University, East Lansing, USA

2. “The 5-HT4 serotonin receptor: Physiological and pathophysiological roles in the heart ventricle.”
   Finn Olav Levy, University of Oslo, Oslo, Norway

3. “Role of serotonin and 5-HT2 receptors in cellular processes involved in cardiac valve remodeling.”
   Laurent Monassier, Faculté de Médecine, Strasbourg, France

4. “Refining the serotonergic contribution to central chemosensitivity.”
   Rachael Brust, Harvard Medical School, Boston, USA
   NIDA Travel Awardee

7.10 PM Departure for Banquet

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**Thursday JULY 12, 2012**

8.30-10.30 AM Theatrum anatomicum
   **SYMPOSIUM 7**
   “New roles of 5-HT6 receptor in neuro-developmental and cognitive processes.”
   Chair: Joël Bockaert, University of Montpellier, Montpellier, France
   Co-Chair: Mark Millan, Institut de Recherches Servier, Croissy sur, Seine, France

1. “Developmental role of the 5-HT6 receptor in neuronal migration.”
   Alexandre Dayer, Geneva University Hospital, Geneva, Switzerland

   Phillipin Marin, University of Montpellier, Montpellier, France

3. “Functional role of 5HT6 receptor in the neuro-developmental cognitive deficits seen in schizophrenia.”
   Kevin C.F. Fone, Univ. Nottingham Medical School, Nottingham, UK
4. “Effect of the 5-HT6 receptor antagonist, SB-399885, on cognition, hippocampal cell proliferation and protein expression in the neurodevelopmental model of schizophrenia.”
Madeleine King, University of Nottingham, Nottingham, UK
NIDA Travel Awardee

8.30-10.30 AM Salle des actes
**SYMPOSIUM 8**
“The 5-HT3 receptor system: Therapeutic potential and advantages from novel ligands.”
Chair: Nicholas Barnes, University of Birmingham Medical School, Birmingham, UK
Co-Chair: Beate Niesler, University of Heidelberg, Heidelberg, Germany

1. “The therapeutic potential of targeting individual 5-HT3 receptor subtypes.”
Beate Niesler, University of Heidelberg, Heidelberg, Germany

Nick Moore, AMRI Inc, Albany, USA.

3. “Tickling the 5-HT3 receptor; molecular studies and therapeutic potential of allosteric 5-HT3 receptor ligands.”
Nicholas Barnes, University of Birmingham Medical School, Birmingham, UK

Nathalie Goodfellow, University of Toronto, Canada
NIDA Travel Awardee

10.30 AM-11.00 AM Coffee break

11.00 AM-1.00 PM Theatrum anatomicum
**SYMPOSIUM 9**
“Recent advances in understanding the interaction between the glutamatergic and serotonergic systems.”
Chair: Mark A. Geyer, University of California, San Diego, La Jolla, USA
Co-Chair: Adam Halberstadt, University of California, San Diego, La Jolla, USA

1. “Antipsychotic signaling in a 5HT2A-mGlu2 receptor heterocomplex.”
Javier Gonzalez-Maeso, Mount Sinai School of Medicine, New York, USA

2. “Is RNA editing relevant for serotonergic transmission in the cortex in health and disease?”
Dan Urban, University of Chapel Hill, Chapel Hill, USA

3. “Interactive effects of 5-HT2A and mGlu5 receptors on behavior in mice.”
Adam Halberstad, University of California, San Diego, La Jolla, USA

4. “Higher-order interactions of GABA and glutamate axons in the rat dorsal raphe nucleus visualized by array tomography.”
Mariano Soiza-Reilly, Harvard Medical School, Boston, USA
NIDA Travel Awardee
11.00 AM-1.00 PM Salle des Actes

**SYMPOSIUM 10**

“Molecular genetics of serotonin neuron development, physiology and pharmacology.”
Chair: Evan Deneris, Case Western Reserve University, Cleveland, USA

1. “Contribution of serotonin1A auto and heteroreceptors to depression and antidepressant response.”
   David Leonardo, Columbia University, New York, USA

2. “Transcriptional control of serotonin neurons across the lifespan.”
   Evan Deneris, Case Western Reserve University School of Medicine, Cleveland, USA

3. “Raphe neuron development and its perturbations by altered transcription and receptor deletion.”
   Sheryl Beck, Children’s Hospital of Philadelphia, Philadelphia, USA

4. “Shaping patterns of serotonin neurotransmission via feedback circuits.”
   Kathryn Commons, Harvard Medical School, Boston, USA

1.00-2.00 PM LUNCH

2.00-3.00 PM BUSINESS MEETING FOR ALL REGISTERED

3.00-5.00 PM Theatrum anatomicum

**SYMPOSIUM 11**

“From ligand functional selectively to brain region selectivity: Differential pharmacological targeting of serotonin system.”
Chair: Adrian Newman-Tancredi, NeuroAct Communication, Castres, France
Co-Chair: Umberto Spampinato, Université Victor Seglan Bordeaux2, Centre Recherche Inserm U862, Bordeaux, France

1. “Biased agonism at serotonin 5-HT1A receptors: Preferential postsynaptic activity for improved therapy of CNS disorders.”
   Adrian Newman-Tancredi, NeuroAct Communication, Castres, France

2. “Agonist-directed signaling at 5-HT2A receptors in cortex.”
   Laura M. Bohn, The Scripps Research Institute, Jupiter, USA

3. “Central 5-HT2B receptors exert a differential control of mesocorticolimbic and nigrostriatal dopamine pathway activity: An in vivo microdialysis study in the rat.”
   Umberto Spampinato, Université Victor Seglan Bordeaux2, Centre Recherche Inserm U862, Bordeaux, France

4. “Characterization of serotonin neurons in the Raphe based on molecular and electrophysiological identity.”
   Sebastian Fernandez, INSERM, Paris, France
   NIDA Travel Awardee

3.00-5.00 PM Salles des Actes

**SYMPOSIUM 12**

“Ovarian sex steroids and serotonin function.”
Chair: Alan Frazer, University of Texas Health Science Center, San Antonio, USA

1. “Estrogen receptor GPR30 mediates desensitization of serotonin_{1A} receptor signaling.”
   Nancy Muma, University of Kansas School of Pharmacy, Lawrence, USA

2. “Influences of sex hormones and diminished central nervous 5-HT synthesis rate on impulse control related to reward and punishment processing in young adult females.”
   Katrin Helmbold, RWTH Aachen University, Germany
   NIDA Travel Awardee

3. “Estradiol modulation of 5HT_{1A} and 5-HT_{2A} receptors and SERT in brain of female hemiparkinsonian monkeys after long-term ovariectomy.”
   Thérèse Di Paolo, Faculty of Pharmacy, Laval University, Canada

4. “Serotonin transporter function: Interaction among ovarian steroids and antidepressants.”
   Alan Frazer, University of Texas Health Science Center, San Antonio, USA

4.00 PM Closing Remarks and Farewell