Emerging neuropeptide systems

[P1.1.01] **Characterization of a Novel alpha4/4-Conotoxin, Qc1.2, from Vermivorous Conus quercinus**

CP Peng*[1], YH Han[2], TS Sanders[3], GC Chew[3], JL Liu[3], EH Hawrot[3], *[1]Institute of Protein Research, Tongji University, Shanghai, China, [2]Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China, [3]Department of Molecular Pharmacology, Physiology and Biotechnology, Brown Medical School, Providence, United States*

[P1.1.02] **Identification and Structural Characterization of vi6a, a Novel Four-loop Conotoxin Rich in Glycine**

CG Guo[1], CP Peng*[2], CC Chi[3], CW Wang[2], DL Lin[1], *[1]Shanghai Institute of Material Medica, Chinese Academy of Sciences, Shanghai, China, [2]Institute of Protein Research, Tongji University, Shanghai, China, [3]Institute of Biochemistry and Cell Biology, Shanghai Institute of Biological Sciences, Chinese Academy of Sciences, Shanghai, China*

[P1.1.03] **In vitro and in vivo pharmacological role of TLQP-21, a Chromogranin VGF-derived peptide, in the regulation of rat motor gastric functions.**

R Possenti*[1], C Petrella[2], G Improta[2], M Broccardo[2], A Levi[3], C Severini[3], *[1]Univ of Rome Tor Vergata, Dept Neuroscience, Italy, [2]Univ of Rome La Sapienza Dept Human Physiology and Pharmacology, Italy, [3]Institute of Neurobiology and Molecula Medicine, CNR Rome, Italy*

[P1.1.04] **Neuropeptide S receptor expression and regulation of neurotransmitter release in rat brain**

SK Leonard*[1], CE Beyer[1], C Wantuch[1], M-Y Zhang[1], S Rosenzweig-Lipson[1], LE Schechter[1], *[1]Wyeth Research, United States*

[P1.1.05] **Ascending relaxin-3 networks in mammalian brain: A review of their conserved distribution and emerging functional roles**

AL Gundlach*[1], *[1]Florey Neuroscience Institutes, The University of Melbourne, Australia*

[P1.1.06] **Newly-elucidated neuropeptides in the hippocampus: The role of the teneurin C-terminal associated peptides (TCAPs) on stress-related pathways**

L.A. Tan*[1], A. Al Chawaf[1], K. Xu[1], F.J. Vaccarino[1], D.A. Lovejoy[1], S. Rotzinger[1], *[1]University of Toronto, Canada*

[P1.1.07] **Localization and characterization of teneurin C-terminal associated peptide (TCAP) expression in mouse brain**

D.S. Chand*[1], T. Ng[1], A. Kollara[2], T.J. Brown[2], D. Barsyte-Lovejoy[1], D.A. Lovejoy[1], *[1]University of Toronto, Canada, [2]Samuel Lunenfeld Research Institute Mount Sinai Hospital, Canada*

Feeding behavior and appetite

[P1.2.01] **Morphine attenuates the effect of nicotine on body weight, food intake and on serum neuropeptide Y level in rats.**

Mozaffar Rezvanipour*[1], Saeed Esmaeili-Mahani[1,2], Ali Siahposht[1], Sina Rezvanipour[1], *[1]Kerman Neuroscience Research Center (KNRC), Kerman University of Medical Sciences, Iran, Islamic Republic of, [2]Department of Biology, Faculty of Sciences, Shahid Bahonar University of Kerman, Iran, Islamic Republic of*

[P1.2.02] **Central actions of the oligosomatostatin receptor agonist ODT8-SST: increase of food intake and decrease of body weight**
Tamer Coskun*[1], Andreas Stengel[2], Miriam Goebel[2], Libbey Craft[1], Lixin Wang[2], Jorge Alsina-Fernandez[1], *[1]Eli Lilly and Company, United States, [2]UCLA, United States, [3]Salk Institute, United States*

[P1.2.03] **Feeding behavior, energy expenditure and obesity in mice overexpressing neuropeptide Y in noradrenergic neurons**
ST Ruohonen*[1], L Toukola[1], M Röyttä[2], M Kilpeläinen[2,3], KH Herzig[2,3], E Savontaus[1], *[1]University of Turku, Finland, [2]University of Kuopio, Finland, [3]University of Oulu, Finland*

[P1.2.04] **Comparative Neuropeptidomic Analysis of Food Intake and Environmental Stress via a Multi-faceted Mass Spectrometric Approach**
R.C. Chen*[1], L.H. Hui[1], L.L. Li[1], *[1]Univeristy of Wisconsin-Madison, United States*

[P1.2.05] **The Acute and Subchronic Effects of a Brain-Penetrating, Neurotensin-1 Receptor Agonist on Feeding, Body Weight and Temperature**
D Feifel*[1], J Goldenberg[1], G Melendez[1], P Shilling[1], *[1]University of California, San Diego, United States*

[P1.2.06] **Secretin and leptin increase the electrical activity of supraoptic nucleus (SON) neurons in female rats: Comparison to CCK-induced excitation**
S Velmurugan*[1], PJ Brunton[1], G Leng[1], JA Russell[1], *[1]Centre for Integrative Physiology, College of Medicine and Veterinary Medicine, University of Edinburgh, United Kingdom*

[P1.2.07] **Role of Neuropeptide Y (NPY) and Alpha-Melanocyte Stimulating hormone (a-MSH) in obesity induced hypertension (HPT)**
M Baltatzi*[1], A Hatzitolios[1], Ch Savopoulos[1], Ch Dimitroula[1], G Koliakos[2], *[1]1st Propedeutic Medical Department, AXEPA Hospital, Aristotles University of Thessaloniki, Greece, [2]Department of Biological Chemistry, Aristotles University of Thessaloniki, Greece*

Neurogenic inflammation and pain

[P1.3.01] **CGRP modulates sympathetic co-transmitter release and inversely, nucleotides regulate CGRP outflow through P2Y nucleotide receptors; functional implications.**
J. P. Huidobro-Toro*[1], C. Navarrete[1], D. Hermosilla[1], P. Alvarez[1], M.V. Donoso[1], *[1]P. Catholic University of Chile, Chile*

[P1.3.02] **Inhibition of Adrenomedullin Receptor Blockade on The Upregulation of Nitric Oxide Synthesis and CGRP in Inflammatory Pain in Rats**
Y. Hong*[1,2], J.-G. Chabot[1], R. Quirion[1], *[1]McGill University, Canada, [2]Fujian Normal University, China*

[P1.3.03] **Corticotropin releasing factor receptors-1 are implicated in the sensory component of inflammatory and neuropathic pain**
M. Hummel*[1], T. Cummons[1], P. Lu[1], J. Harrison[1], J.D. Kennedy[1], G.T. Whiteside[1], *[1]Wyeth Research, United States*

[P1.3.04] **Intrathecal Injection of Interlukin-1β (IL-1β) Increases Pain Behavior and Blood Glucose Level: Possible Involvement of Glucocorticoid, Catechoamine, Corticotropin Releasing Hormone (CRH) and Supra Spinal Opioid System**
Y.B. Sim*[1], S.H. Park[1], S.M. Choi[1], J.K. Lee[1], H.W. Suh[1], *[1]Department of Pharmacology, College of Medicine, Hallym University, Korea, Republic of*

[P1.3.05] **Role of VGF in Pain Signaling**
M. Riedl[1], P. Braun[1], K. Kitto[1], C. Fairbanks[1], L. Vulchanova*[1], [1]*University of Minnesota, United States*

[P1.3.06] **The expression of μ- and δ-opioid receptors in the dorsal root ganglia and spinal cord of NOS1 and NOS2 knockout mice exposed to inflammatory pain**
R Negrete[1,2], JM Martín-Campos[1], A Hervera[1,2], S Leánez[1,2], O Pol*[1,2], [1]*Institut de Recerca de l'Hospital de la Sta Creu i Sant Pau. Barcelona, Spain,* [2]*Institut de Neurociències. Universitat Autònoma de Barcelona. Barcelona, Spain*

[P1.3.07] **Modulatory Effects of Neuropeptide of Bombesin on Acute Pain and Anxiety Reaction in Mice**
A.A Vafaei*[1], A.A Taherian[1], A Rashidy-Pour[1], [1]*Dept. and Research Center of Physiology, Semnan University of Medical Sciences, Iran, Islamic Republic of*

[P1.3.08] **Anticonvulsant and Analgesic Profile of NAX-5055: A High Affinity, Metabolically Stable, and Blood-Brain-Barrier Penetrant Galanin-Based Analog**
E. Adkins-Scholl*[1,2], M.D. Smith[1,2], B.D. Klein[2], L. Zhang[3], G. Bulaj[3], H.S. White[1], [1]*University of Utah, Department of Pharmacology and Toxicology, Salt Lake City, UT 84108, United States,* [2]*Neuroadjuvants, Inc., 417 Wakara Way, Salt Lake City, UT 84108, United States,* [3]*University of Utah, Department of Medicinal Chemistry, Salt Lake City, UT 84108, United States*

[P1.3.09] **Oxytocin-induced analgesia is not mediated by the oxytocin receptor, but rather by the vasopressin-1A receptor: evidence from oxytocin- and vasopressin-receptor knockout mice**
A Schorscher-Petcu*[1,2], S Sotocinal[1], JN Crawley[3], LJ Young[4,5], R Quirion[1,2], JS Mogil[1], [1]*McGill University, Canada,* [2]*Douglas Mental Health University Institute, Canada,* [3]*National Institute of Mental Health, United States,* [4]*Emory University, United States,* [5]*Yerkes National Primate Research Center, United States*

[P1.3.10] **Change of nicotinic receptor expression on APC cell line by the cell maturation**
Eiichi Taira*[1], Yukiko Kondo[1], Eiichi Tachikawa[2], [1]*Department of Pharmacology, Iwate medical school, Japan,* [2]*Department of Endocrine Pharmacology, Tokyo University of Pharmacy and Life Science, Japan*

Neuropeptide systems in social behavior

[P1.4.01] **Central Amylin Expression and its Involvement in the Regulation of Maternal Behaviours**
A Dobolyi*[1], [1]*Semmelweis University and the Hungarian Academy of Sciences, Hungary*

[P1.4.02] **Maternal Separation Impairs Social Recognition Due to a Lack of Septal Vasopressin Responsiveness in Adult Male Rats**
M Lukas*[1], AH Veenema[1], ID Neumann[1], [1]*University of Regensburg, Germany*

[P1.4.03] **Influence of Hormone Treatment and Mating Conditions on Anxiety-related Behaviour and Central Oxytocin Release in Female Rats**
M Waldherr[1], S Baeuml[1], K Nyuyki[1], ID Neumann*[1], [1]*University of Regensburg, Germany*

[P1.4.04] **Peripherally administered vasopressin V1a receptor antagonist AZN 576 increases maternal aggression**
B.C. Nephew*[1], M. Febo[1], N.G. Simon[2], C.F. Ferris[1], [1]*Center for Translational Neuro-Imaging Department of Psychology, Northeastern University, United States,* [2]*Department of Biological Sciences, Lehigh University, Bethlehem PA, United States*

[P1.4.05] **Oxytocin Levels in Adult and Infant CD38 Knockout Mice Critically Relate to Social Behavior**
H. Higashida*[1], H.-L. Liu[1], O. Lopatina[1], C. Higashida[1], S. Yokoyama[1], M. Hashii[1], [1]*Kanazawa University Graduate School of Medicine, Japan*

[P1.4.06] **Luteolin ameliorates cognition deficits in rats and inhibits the activations of MAP kinase and caspase 3 pathways in primary cultures of rat cortical cell induced by β-amyloid**
Cheng Hao-Yuan[1], Tsai Fan-Shiu[1], Wu Chi-Rei[1], Hsieh Ming-Tsuen[1], Xu Hong-Xi[1], Peng Wen-Huang*[1], [1]*nstitute of Chinese Pharmaceutical Sciences, China Medical University, Taiwan,* [2]*Chinese Medicine Laboratory, Hong Kong Jockey Club Institute of Chinese Medicine, Hong Kong, China,* [3]*School of Chinese Medicine, Hong Kong Baptist University, Kowloon Tong, Hong Kong Special Administrative Region, P. R, China*

[P1.4.07] **Effects of ICV Insulin-like Peptide 3 (INSL3) Administration on Social and Non-Social Behaviors in the C57BL/6J Mouse**
AL Gundlach*[1], NS Karunaratne[1], NL Jennings[1], K Sedaghat[1], F Lin[1], JD Wade[1], [1]*Florey Neuroscience Institutes, The University of Melbourne, Australia*

[P1.4.08] **Localization of Oxytocin Receptor Expressing Neurons in Brain Using Oxtr-YFP Knockin Mice.**
K.N. Nishimori*[1], [1]*Graduate School of Agricultural Science, Tohoku University, Japan,* [2]*2Department of Physiology, Jichi Medical University, Japan,* [3]*3Department of Psychiatry and Behavioral Sciences and Yerkes National Primate Research Center, Emory University, United States,* [4]*Department of Specific Organ Regulation, Osaka University Graduate School of Medicine, Japan*

[P1.4.09] **On the Central Oxytocin System Regulation Social Cognition and Behavior**
H.E. Ross*[1], L.J. Young[1,2], [1]*Center for Behavioral Neuroscience, Yerkes National Primate Research Center, Atlanta GA, United States,* [2]*Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA, United States*

[P1.4.10] **Examining plasma oxytocin, genes, and clinical variability in children with autism spectrum disorders**
S Jacob*[1], C S Carter[1], P Suppatkul[1], H Pournajafi-Nazarloo[1], C W Brune[1], E H Cook[1], [1]*University of Illinois at Chicago, United States*

[P1.4.11] **Endocrine and autonomic responses following alloparenting in socially monogamous voles**
W M Kenkel*[1], J Paredes[1], H P Nazarloo[1], A J Grippo[1], S W Porges[1], C S Carter[1], [1]*University of Illinois at Chicago, United States*

[P1.4.12] **Oxytocin injections in early life reversed negative behavioral effects of repeated handling**
E M Boone*[1], L L Sanzenbacher[1], S D Stanfill[1], K L Bales[1], C S Carter[1], [1]*University of Illinois at Chicago, United States*

[P1.4.13] **Sex differences in developmental effects of peptides: implications for autism?**
C S Carter*[1], [1]*University of Illinois at Chicago, United States*

The role of neuropeptides in neuronal plasticity

[P1.5.01] **Effects of Deprenyl on mRNA changes of P75 receptor in adult rats after spinal cord injury by the use of pressure**
marjan heshmati*[1], hesam amini[1], *[1]shahed university, Iran, Islamic Republic of*

[P1.5.02] **Effects of LHRH Antagonist Cetrorelix on Affective and Cognitive Functions in Rats**
G. Telegdy*[1], A. Adamik[1], M. Tanaka[1], A.V. Schally[1], *[1]Dept. Pathophysiology University of Szeged , Veterans Affairs Med. Center Miami FL 33101, United States Minor Outlying Islands*

[P1.5.03] **TGF-β2 haploinsufficiency perturbs miniature potential amplitude at adult mouse neuromuscular junctions.**
S.-W. Fong[1], I.S. McLennan[2], G.S. Bewick*[1], *[1]University of Aberdeen, United Kingdom, [2]University of Otago, New Zealand*

[P1.5.04] **A role for TGF-β2 in the mature nervous system - a rapid modulator of synaptic transmission**
S-W Fong*[1], IS McLennan[1], GS Bewick[1], *[1]University of Aberdeen, United Kingdom, [2]University of Otago, New Zealand*

[P1.5.05] **Modulation of hippocampal theta oscillation via nociceptin opioid peptide receptors: Relevance to cognition**
M Hajos*[1], L Scott[1], B Harvey[1], C Siok[1], B Kocsis[2], E Hajos-Korcsok[1], *[1]1. Dept. Neuroscience, Pfizer Global Research & Development, Groton, CT, United States, [2]2. Dept. Psychiatry, Harvard Medical School, Boston, MA, United States*

[P1.5.06] **The role of arginine vasopressin and oxytocin within the nucleus accumbens during environment elicited cocaine-conditioned response.**
E Rodriguez*[1], *[1]University of Puerto Rico, Puerto Rico, [2]Novartis Genome Institute, United States*

[P1.5.07] **The role of neurotensin during extinction of cocaine seeking behavior.**
A Morales-Rivera*[1], N Caraballo[1], J Marino[1], CS Maldonado-Vlaar[1], *[1]University of Puerto Rico, Puerto Rico*

[P1.5.08] **Characterization of Enkephalin-Containing Neurons in the Spinal Dorsal Horn Visualized in BAC Transgenic Mice**
T Fukushima*[1], T Kofuji[2], Y Hori[1], *[1]Department of Physiology and Biological Information, Dokkyo Medical University, School of Medicine, Kitakobayashi 880, Mibu, Tochigi 321-0293, Japan, [2]Radioisotope Laboratory, Kyorin University, School of Medicine, 6-20-2, Shinkawa, Mitaka, Tokyo, 181-8611, Japan*

Poster Session 2
Thursday, 15 October 2009
18.00 – 20.00

Arousal and sleep

[P2.1.01] **Effects of Peripheral Injection of Neuropeptide of Bombesin on Sleeping Time in Mice**
A.A Vafaei*[1], [1]*Dept. and research center of physiology, University of Medical Sciences, Iran, Islamic Republic of*

[P2.1.02] **Cellular dissection of Drosophila circadian circuit using membrane-tethered pigment dispersing factor (PDF) neuropeptide**
C Choi*[1], L Oksman[1], MN Nitabach[1], AS Kopin[2], JP Fortin[2], [1]*Yale University, United States,* [2]*Tufts University School of Medicine, United States*

[P2.1.03] **sleep promotion induced by orexin-2 receptor antagonism in the rat is diminished by orexin-1 receptor blockade**
JE Shelton*[1], L Aluisio[1], P Bonaventure[1], S Sutton[1], T Lovenberg[1], C Dugovic[1], [1]*Johnson and Johnson PRDUS, United States*

[P2.1.04] **Effect of NPY in the cholinergic basal forebrain in rat: double-immunolabeling electron microscopy and in vitro electrophysiology studies**
L Zaborszky*[1], A Duque[2], M Alreja[2], S Ovsepyan[1], [1]*Rutgers University, United States,* [2]*Yale University School of Medicine, United States,* [3]*Dublin City University, Ireland*

Imaging of neuropeptidergic action in the CNS

[P2.2.01] **Virus-based targeting of oxytocin and vasopressin neurons: a new tool for functional anatomy and physiology of hypothalamic neuropeptides.**
S. Knobloch[1], L. Hoffmann[1], A.H. Cetin[1], M.K. Schwarz[1], P.H. Seeburg[1], V. Grinevich*[1], [1]*Max-Planck-Institute for Medical Research, Germany*

[P2.2.02] **Neuropeptide profiling of pomc cells in the mouse brain**
Susanne Neupert*[1], Andreas Husch[2], Moritz Paehler[2], Peter Kloppenburg[2], Reinhard Predel[1], [1]*Friedrich-Schiller University, Institute of General Zoology and Animal Physiology, Germany,* [2]*University of Cologne, Department of Biology, Institute of Zoology-Physiology, Germany*

[P2.2.03] **Developmental, behavioral and neurophysiological consequences of prenatal valproate: potential importance for the neurobiology of autism**
AC Felix-Ortiz*[1], M Febo[1], [1]*Northeastern University, United States*

[P2.2.04] **Vasopressin v1a receptors modulate maternal bold fmri response to a novel male intruder**
MK Caffrey*[1], BC Nephew[1], M Febo[1], [1]*Northeastern University, United States*

Lessons learned from translation

[P2.3.01] **Intranasal Oxytocin Augmentation of Antipsychotic Medication in Schizophrenia Patients**
D Feifel*[1], K Macdonald[1], A Nguyen[1], H Warlan[1], P Cobb[1], B Galangue[1], [1]*University of California, San Diego, United States*

Neuropeptidergic control of stress responsivity

[P2.4.01] **Microarray-directed gene discovery for neuropeptide signaling in stress**
N. Stroth[1], Y. Holighaus[1], D. Ait-Ali[1], L. E. Eiden*[1], D. Vaudry[2], A. Ravni[2], *[1]NIMH-IRP, United States, [2]University of Rouen, France*

[P2.4.02] **Anxiolytic-like activity of angiotensin IV: interactions between oxytocin and AT4 receptors in the amygdala**
J.M. Dwyer[1], Q. Lin[1], H-P. Ling[1], L.E. Schechter[1], S. Rosenzweig-Lipson[1], C.E. Beyer*[1], *[1]Wyeth Research, United States*

[P2.4.03] **Voluntary exercise and effects on Urocortin 1 and brain derived neurotrophic factor expression in the mouse brain**
S Hilke*[1,2], M Huising[1], S Gustafsson[2], T Hökfelt[3], J Vaughan[1], W Vale[1], *[1]Clayton Foundation Laboratories for Peptide Biology, The Salk Institute for Biological Studies, La Jolla, CA, United States, [2]Department of Clinical and Experimental Medicine, Linköping University, Sweden, [3]Department of Neuroscience, Karolinska Institutet, Stockholm, Sweden*

[P2.4.04] **Opioid Suppression Of Hypothalamus-Pituitary-Adrenal (HPA) Axis Responses To Stress In Late Pregnancy Depends Upon Allopregnanolone Actions**
PJ Brunton*[1], T Ochedalski[2], A Piastowska[2], E Rebas[3], A Lachowicz[2], JA Russell[1], *[1]Centre for Integrative Physiology, University of Edinburgh, United Kingdom, [2]Department of Comparative Endocrinology, University of Lodz, Poland, [3]Department of Molecular Neurochemistry, University of Lodz, Poland*

[P2.4.05] **Anxiolytic- and antidepressant-like effects of the neuropeptide somatostatin**
E Engin*[1], D Treit[2], *[1]University of Alberta, Canada, [2]University of Alberta, Canada*

[P2.4.06] **Long Term Anxiety and Depression-like Behaviors after Maternal Separation in Dams Are Reversed by High Fat Diet- Impact on Hypothalamic CRF**
J Maniam*[1], MJ Morris[1], *[1]University of New South Wales, Australia*

[P2.4.07] **Orexin inputs to the posterior paraventricular thalamus regulate responses to acute stress and anxiety-related behavior.**
WA Heydendael*[1,2], S Luz[1], K Sharma[2], V Iyer[1], S Bhatnagar[1,2], *[1]Children's Hospital of Philadelphia, United States, [2]University of Pennsylvania, United States*

[P2.4.08] **Anxiolytic-Like Effect of UFP-101 Microinjected into the Lateral Ventricle of Rats as Evaluated in the Elevated T-Maze**
M Duzzioni*[1], FS Duarte[1], LR Leme[1], EC Gavioli[2], G Caló[3], R Guerrini[3], *[1]Federal University of Santa Catarina, Brazil, [2]Federal University of Rio Grande do Norte, Brazil, [3]University of Ferrara, Italy*

[P2.4.09] **Acute Stress Alters The Levels Of Neuropeptide Y In A Sub-population Of Adrenal Chromaffin Cells.**
Q Wang[1], P Ramamoorthy[1], M Whim*[1], *[1]Penn State University, United States*

[P2.4.10] **PACAP regulates immediate catecholamine release from adrenal chromaffin cells in an activity dependent manner through a protein kinase C-dependent pathway.**
C Smith*[1], S. Chan[1], B. Kuri[1], *[1]Case Western Reserve University, United States*

[P2.4.11] **Cortical F-Actin, the Exocytic Mode and Neuropeptide Release in Mouse Chromaffin Cells is Regulated by MARCKS and Myosin II.**
B. Doreian*[1], T Fulop[1], C Smith[1], *[1]Case Western Reserve University, United States*

[P2.4.12] **Modified endogenous neuropeptide fragments as candidates for effective wide spectrum activity drugs creation.**
T.V. V`unova*[1], [1]*Institute of Molecular Genetics Russian Academy of Science, Russian Federation*

[P2.4.13] **Involvement of peptidyl glycine α-amidating monooxygenase in altered adrenal medullary neuropeptide Y synthesis by intermittent hypoxia**
G Raghuraman*[1], A Kalari[1], R Dhingra[1], NR Prabhakar[1], GK Kumar[1], [1]*University of Chicago, United States*

Other Themes

[P2.5.01] **SP protects cerebellar granule cells against b-amyloid-induced apoptosis by down-regulation and reduced activity of Kv4 potassium channels**
M Pieri[2], G Amadoro[1], I Carunchio[3], R Possenti*[2], C Zona[2], C Severini[1], [1]*Institute of Neurobiology and Molecular Medicine, CNR, Rome, Italy,* [2]*Department of Neuroscience, University of Rome Tor Vergata, Italy,* [3]*Fondazione S. Lucia, Rome, Italy*

[P2.5.02] **Effects of Acute Ethanol Administration on Methionine-enkephalin Expression and Release in Regions of the Rat Brain**
Milagros Méndez*[1], Irais Guadalupe Barbosa-Luna[1], José Manuel Pérez-Luna[1], Annie Cupo[2], Julián Oikawa[3], [1]*Instituto Nacional de Psiquiatría Ramón de la Fuente, Mexico,* [2]*Université de Nice-Sophia-Antipolis, France,* [3]*Centro de Investigación y de Estudios Avanzados, Mexico*

[P2.5.03] **GnRH Modulates the Antianxiety and Anticonvulsant Effects of Diazepam in Mice**
N.S. Jain*[1], M.M. Wanjari[2], A.K. Yawale[2], S.N. Umathe[2], [1]*J.L. Chaturvedi college of pharmacy, India,* [2]*Department of Pharmaceutical Sciences, RTM Nagpur University, India*

[P2.5.04] **The possible role of kappa opioid receptor activity for anticonvulsant activities of rutin in mice**
Sepideh Saroukhani*[1], Marjan Nassiri-Asl[1], Farzaneh Zamansoltani[1], Amir Javadi[1], Abolfazl Mahyar[1], [1]*Qazvin University of Medical Sciences, Iran, Islamic Republic of*

[P2.5.05] **Comparison of withdrawal symptoms and blood glucose level regulation induced by morphine and beta-endorphin administered intracerebroventricularly**
S.H. Park*[1], Y.B. Sim[1], S.M. Choi[1], J.K. Lee[1], H.W. Suh[1], [1]*Department of Pharmacology, College of Medicine, Hallym University, Korea, Republic of*

[P2.5.06] **Oxytocin decreases methamphetamine self-administration, methamphetamine hyperactivity, and relapse to methamphetamine-seeking behaviour in rats**
DS Carson*[1], JL Cornish[2], AJ Guastella[1], GE Hunt[3], IS McGregor[4], [1]*Brain & Mind Research Institute, University of Sydney, Sydney, Australia,* [2]*School of Psychology, Macquarie University, Sydney, Australia,* [3]*Psychological Medicine, University of Sydney, Sydney, Australia,* [4]*School of Psychology, University of Sydney, Sydney, Australia*

[P2.5.07] **Modulation of neuropeptide Y Y_1, Y_2 and Y_5 receptors reverse specific behavioral despairs by increasing neurogenesis in the dentate gyrus in a rat model of depression**
JC Morales-Medina*[1], Y Dumont[1], CE Benoit[1,2], AG Beck-Sickinger[3], P Sarret[2], R Quirion[1], [1]*Douglas Mental Health University Institute, McGill University, Canada,* [2]*Department of Physiology and Biophysics, University of Sherbrooke, Canada,* [3]*Institute of Biochemistry, University of Leipzig, Germany*

[P2.5.08] **Role of glutamate , its receptors and insulin-like growth factors in hypoxia induced periventricular white matter injury**
C Kaur*[1], V Sivakumar[1], E.A Ling[1], [1]*National University of Singapore, Singapore*

[P2.5.09] **An Oscillation in Rat Tuberoinfundibular Dopamine (TIDA) Neurons: Switch to Tonic Discharge by Thyrotropin-Releasing Hormone (TRH)**
DJ Lyons[1], E Horjales-Araujo[1], C Broberger*[1], [1]*Karolinska Institutet, Sweden*

[P2.5.10] **Enhancement effects of nicotine on neurogenic relaxation responses in rabbit corpus cavernosum: the role of nicotinic acetylcholine receptor subtypes.**
Ismail Mert Vural[1], Gokce Sevim Ozturk Fincan[1], Zeynep Sevim Ercan[1], Yusuf Sarioglu*[1], [1]*Gazi University Faculty of Medicine, Turkey*

[P2.5.11] **Studies on the relaxation effects of cannabinoid receptor agonists in rabbit corpus cavernosum**
Ismail Mert VURAL[1], Gokce Sevim OZTURK FINCAN[1], Zeynep Sevim ERCAN[1], Yusuf SARIOGLU*[1], [1]*Gazi University Faculty of Medicine, Turkey*

[P2.5.12] **The effect of a ghrelin receptor (GHSR) antagonist, D-Lys3-GHRP-6, on the activation of the perioculomotor urocortin-containing neurons by ethanol.**
S Kaur*[1], A.E. Ryabinin[1], [1]*OHSU, United States*