#### Sepetember 8, 2015 Lunch poster session

#### **Poster P9. Motor control**

#### **P9.1**

### PRAMIPEXOLE AT A LOW DOSE INDUCES BENEFICIAL EFFECTS IN THE HARMALINE-INDUCED MODEL OF ESSENTIAL TREMOR IN RATS

**Barbara Kosmowska**<sup>1</sup>, Jadwiga Wardas<sup>1</sup>, Urszula Głowacka<sup>1</sup>, Subramaniam Ananthan<sup>2</sup> <sup>1</sup>Department of Neuro-Psychopharmacology, Institute of Pharmacology, Polish Academy of

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#### **P9.2**

### SEX DIFFERENCES IN THE DECOMPOSITION OF MOTOR UNIT TETANIC CONTRACTIONS OF RAT SOLEUS MUSCLE

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#### **P9.3**

### CHANGES IN ELECTROPHYSIOLOGICAL PROPERTIES OF RAT MOTONEURONS EVOKED BY A 5-WEEK STRENGTH TRAINING

### <u>Włodzimierz Mrówczyński</u><sup>1</sup>, Dawid Łochyński<sup>2</sup>, Dominik Kaczmarek<sup>3</sup>, Marcin Bączyk<sup>1</sup>, Jan Celichowski<sup>1</sup>, Piotr Krutki<sup>1</sup>

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#### **P9.4**

### IA MONOSYNAPTIC PATHWAY IN SOD1 MOUSE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS

<u>Marcin Baczyk</u>, Clémence Martinot, Nicolas Delestrée, Marin Manuel, Daniel Zytnicki Laboratory of Neurophysics and Physiology, UMR CNRS 8119, University Paris Descartes, Paris, France

#### **P9.5**

MOTOR UNIT CONTRACTILE PROPERTIES AND MYOSIN HEAVY CHAIN PROTEIN EXPRESSION AFTER RESISTANCE EXERCISE

<u>Dawid Łochyński</u><sup>1</sup>, Dominik Kaczmarek<sup>2</sup>, Włodzimierz Mrówczyński<sup>3</sup>, Joanna Majerczak<sup>4</sup>, Janusz Karasiński<sup>5</sup>, Jerzy Żołądź<sup>4</sup>, Jan Celichowski<sup>3</sup>

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#### **P9.6**

#### GRAFTED SEROTONERGIC NEURONS CAN REVERSE CHANGES IN GENE EXPRESSION IN MOTONEURONS PRODUCED BY SPINAL CORD INJURY IN RATS

Krzysztof Miazga<sup>1</sup>, Ewa Joachimiak<sup>2</sup>, Hanna Fabczak<sup>2</sup>, Urszula Sławińska<sup>1</sup>

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#### **P9.7**

#### CHANGES IN CONTRACTILE PROPERTIES OF MOTOR UNITS IN RATS WITH DECREASED MUSCLE CARNOSINE CONTENT AFTER 14 DAYS OF HISTIDINE DEPRIVATION

<u>Dominik Kaczmarek</u><sup>1</sup>, Dawid Łochyński<sup>2</sup>, Maciej Pawlak<sup>3</sup>, Inge Everaert<sup>4</sup>, Laura Blancquaert<sup>4</sup>, Wim Derave<sup>4</sup>, Jan Celichowski<sup>5</sup>

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#### **P9.8**

#### THE TRANSITORY FORCE DECREASE FOLLOWING HIGH-FREQUENCY STIMULATION BURST IN UNFUSED TETANI OF MOTOR UNITS Joanna Grzesiak, Hanna Drzymała-Celichowska, Jan Celichowski

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#### P9.9

ADAPTIVE CHANGES IN MOTOR UNIT CONTRACTILE PROPERTIES TO ENDURANCE TRAINING

### <u>Katarzyna Kryściak</u><sup>1</sup>, Jakub Kryściak<sup>2</sup>, Dawid Łochyński<sup>3</sup>, Dominik Kaczmarek<sup>4</sup>, Hanna Drzymała-Celichowska<sup>4</sup>, Piotr Krutki<sup>1</sup>, Jan Celichowski<sup>1</sup>

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#### **P9.10**

ENRICHMENT IN GLUTAMATERGIC AND CHOLINERGIC BOUTONS OF ANKLE EXTENSOR  $\alpha$ -MOTONEURONS AFTER LOW-THRESHOLD STIMULATION OF PROPRIOCEPTIVE FIBERS IN THE ADULT RAT

Olga Gajewska-Woźniak, Małgorzata Skup, Julita Czarkowska-Bauch

Nencki Institute of Experimental Biology, Polish Academy of Sciences Warsaw, Poland

#### NOVEL ALPHA-DYSTROBREVIN INTERACTORS REGULATE NEUROMUSCULAR JUNCTION POSTSYNAPTIC MACHINERY Marta Cawor<sup>1</sup> Jacintha Cingros<sup>2</sup> Krzysztof Bornadzki<sup>1</sup> Pawal Niewiadomski<sup>1</sup> Jachua

## <u>Marta Gawor</u><sup>1</sup>, Jacinthe Gingras<sup>2</sup>, Krzysztof Bernadzki<sup>1</sup>, Paweł Niewiadomski<sup>1</sup>, Joshua R. Sanes<sup>2,3</sup>, Tomasz J. Prószyński<sup>1,2</sup>

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#### **P9.12**

ROLE OF AMOTL2, RASSF8 AND HOMER1 IN THE ORGANIZATION OF POSTSYNAPTIC MACHINERY

<u>Marta Gawor</u><sup>1</sup>, Paweł Niewiadomski<sup>1</sup>, Krzysztof Bernadzki<sup>1</sup>, Jolanta Jóźwiak<sup>2</sup>, Katarzyna Rojek<sup>1</sup>, Maria Jolanta Rędowicz<sup>2</sup>, Tomasz J. Prószyński<sup>1</sup>

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#### **P9.13**

LOCOMOTOR TRAINING OF SPINAL RATS DECREASES ABUNDANCE OF GLYR- ANCHORING GEPHYRIN IN THE ANKLE EXTENSOR AND FLEXOR MOTONEURONS MILDLY REDUCING PERINEURONAL NETS ENCAPSULATING THEM

<u>Małgorzata Skup</u>, Anna Głowacka, Olga Gajewska-Woźniak, Julita Czarkowska-Bauch Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Poland

#### **P9.14**

AAV5-MEDIATED **OVERPRODUCTION** OF L1CAM **DOWN-REGULATES** PERINEURONAL NETS ENCAPSULATING MOTONEURONS AND THEIR **PHOSPHACAN** COMPONENT AFTER **COMPLETE** SPINAL CORD **TRANSECTION IN THE RAT** 

Kamil Grycz, Rafał Płatek, Julita Czarkowska-Bauch, Małgorzata Skup

Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Poland

#### **P9.15**

**BRAIN-DERIVED NEUROTROPHIC FACTOR (BDNF) EXPRESSION AND BEHAVIORAL RESPONSE DURING STIMULATION OF BED NUCLEUS OF THE STRIA TERMINALIS (BST) IN RATS** 

Dorota Myślińska<sup>1</sup>, Irena Majkutewicz<sup>1</sup>, Magdalena Podlacha<sup>1</sup>, Ziemowit Ciepielewski<sup>1</sup>, Mateusz Karnia<sup>2</sup>, Agnieszka Wądołowska<sup>1</sup>, Jan Ruciński<sup>1</sup>, Martyna Siudak<sup>1</sup>, Stanisław Zajączkowski<sup>3</sup>, Danuta Wrona<sup>1</sup>

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**P9.16** 

#### MUSCLE ACTIVITY CAN FAKE THE EFFECT OF HIGH-FREQUENCY EEG-NEUROFEEDBACK

<u>Katarzyna Jurewicz</u><sup>1</sup>, Katarzyna Paluch<sup>1</sup>, Jacek Rogala<sup>1</sup>, Mirosław Mikicin<sup>2</sup>, Rafał Krauz<sup>3</sup>, Ewa Kublik<sup>1</sup>, Andrzej Wróbel<sup>1</sup>

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#### **Poster session P10. Epilepsy**

P10.1

#### SELECTED microRNAS REGULATED DURING EPILEPTOGENESIS AND EPILEPSY IN A RAT MODEL OF TEMPORAL LOBE EPILEPSY Anna Bot, Konrad Dębski, Katarzyna Łukasiuk

Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Poland

#### P10.2

#### SEIZURES, SLEEP-WAKE STATES AND JET LAG: DOES THE MELATONERGIC ANTIDEPRESSANT AGOMELATINE HELP TO RESTORE INTERNAL SYNCHRONY?

Magdalena Smyk<sup>1</sup>, Gilles van Luijtelaar<sup>2</sup>, Heidi Huysmans<sup>3</sup>, Wilhelmus Drinkenburg<sup>3</sup>

<sup>1</sup>Department of Neurophysiology and Chronobiology, Chair of Animal Physiology, Institute of Zoology, Jagiellonian University in Kraków, Kraków, Poland; <sup>2</sup>Donders Centre for Cognition, Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen, the Netherlands; <sup>3</sup>Department. of Neuroscience, Janssen Research & Development, a Division of Janssen Pharmaceutica NV, Beerse, Belgium

#### P10.3

### KESI - A NOVEL METHOD FOR SPATIAL EPILEPTIC SOURCE LOCALIZATION IN HUMANS

#### Chaitanya Chintaluri, Daniel K. Wójcik

Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Poland

#### P10.4

#### THE ROLE OF SERUM RESPONSE FACTOR IN EPILEPTOGENESIS Karolina Nader, Leszek Kaczmarek, Katarzyna Kalita

Nencki Institute of Experimental Biology Polish Academy of Sciences, Warsaw, Poland

#### P10.5

### THE EFFECTS OF NMDA RECEPTOR ANTAGONISTS ON THE DEVELOPMENT OF SENSITIZATION TO DIAZEPAM WITHDRAWAL SIGNS IN MICE

#### <u>Sylwia Talarek</u>, Joanna Listos, Jolanta Orzelska, Małgorzata Łupina, Sylwia Fidecka

Chair and Department of Pharmacology and Pharmacodynamics Medical University of Lublin, Lublin, Poland

#### P10.6 SRF REGULATES THE EXPRESSION OF GENES THAT MAY CONTROL EPILEPSY

### <u>Katarzyna Kalita<sup>1</sup></u>, Bożena Kuźniewska<sup>1</sup>, Karolina Nader<sup>1</sup>, Michał Dąbrowski<sup>2</sup>, Leszek Kaczmarek<sup>1</sup>

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#### Poster session P12. Memory and behaviour

#### P12.1

### HIPPOCAMPAL LESIONS IMPAIRED SPATIAL WORKING MEMORY SYSTEM IN RATS

Weronika Duda<sup>1</sup>, Paweł Ostaszewski<sup>2</sup>, Joanna Sadowska<sup>1</sup>, Małgorzata Węsierska<sup>1</sup>

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#### P12.2

# THE EFFECT OF CO-TREATMENT WITH ARIPIPRAZOLE AND ANTIDEPRESSANTS ON THE MK-801-INDUCED DEFICITS IN THE SOCIAL INTERACTION TEST IN RATS

Zofia Rogóż, Katarzyna Kamińska, Elżbieta Lorenc-Koci

Institute of Pharmacology, Polish Academy of Sciences, Kraków, Poland

#### P12.3

# MATERNAL IMMUNE ACTIVATION DYSREGULATES THE SYNAPTIC PROSAP/SHANK EXPRESSION AND MIGHT CONTRIBUTE TO AUTISM SPECTRUM DISORDERS

<u>Agata Adamczyk</u><sup>1</sup>, Magdalena Cieślik<sup>1</sup>, Henryk Jęśko<sup>1</sup>, Krzysztof Jaroń<sup>2</sup>, Agnieszka Dominiak<sup>3</sup>, Urszula Śmietanka<sup>1</sup>, Paweł M. Boguszewski<sup>4</sup>

<sup>1</sup>Department of Cellular Signalling, Mossakowski Medical Research Centre, Polish Academy of Sciences, Warsaw, Poland; <sup>2</sup>Department of Pharmaceutical Biology and Medicinal Plant Biotechnology, <sup>3</sup>Department of Drug Bioanalysis and Analysis, Medical University of Warsaw, Warsaw, Poland; <sup>4</sup>Department of Neurophysiology, Laboratory of Limbic System, Nencki Institute of Experimental Biology Polish Academy of Sciences, Warsaw, Poland

#### THE EFFECT OF CHRONIC TREATMENT WITH THE SELECTED SSRIS AND L-DOPA ON ROTATIONAL BEHAVIOR AND MONOAMINE METABOLISM IN THE MOTOR AND LIMBIC BRAIN STRUCTURES OF 6-OHDA-LESIONED RATS <u>Kinga Kamińska<sup>1</sup></u>, Tomasz Lenda<sup>1</sup>, Jolanta Konieczny<sup>1</sup>, Anna Czarnecka<sup>1</sup>, Zofia Rogóż<sup>2</sup>, Elżbieta Lorenc-Koci<sup>1</sup>

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#### P12.5

### THE INFLUENCE OF ELECTRICAL STIMULATION OF THE RAPHE MAGNUS ON RAT BEHAVIOURS

Kacper Ptaszek, Karolina Plucińska, Paweł Polasik, Edyta Jurkowlaniec

Department of Animal and Human Physiology, University of Gdańsk, Gdańsk, Poland

#### P12.6

#### **REPRESENTATION OF SPACE AND OBJECTS IN RAT ANTERIOR CLAUSTRUM** <u>Maciej M. Jankowski</u>, Shane M. O'Mara

Trinity College Institute of Neuroscience, Trinity College Dublin, Dublin, Ireland

#### P12.7

# THE NEW DERIVATE OF KISSPEPTIN-54 - KISSORPHIN (KSO) REDUCES THE EXPRESSION OF MORPHINE- AND ETHANOL-INDUCED CONDITIONED PLACE PREFERENCE IN RATS

### <u>Ewa Gibuła-Bruzda</u><sup>1</sup>, Jolanta H. Kotlińska<sup>1</sup>, Marta Marszałek-Grabska<sup>1</sup>, Róża Trzcińska<sup>2</sup>, Jerzy Silberring<sup>2,3</sup>

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#### P12.8

### NEURONAL CIRCUITS IN THE CENTRAL AMYGDALA UNDERLYING EMOTIONAL CONTAGION

#### Karolina Rokosz, Ewelina Knapska

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#### P12.9

### THE INFLUENCE OF DMPX ON THE ACTIVITY OF COMMON ANTIDEPRESSANTS

<u>Ewa Poleszak</u><sup>1</sup>, Anna Serefko<sup>1</sup>, Aleksandra Szopa<sup>1</sup>, Sylwia Wośko<sup>1</sup>, Karolina Bogatko<sup>1</sup>, Katarzyna Świąder<sup>1</sup>, Piotr Wlaź<sup>2</sup>

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#### P12.10

## THE ROLE OF NMDA RECEPTOR-DEPENDENT NEURONAL PLASTICITY IN THE DOPAMINE SYSTEM IN REWARD-DRIVEN LEARNING

Jan Rodriguez Parkitna, Kamila Łopata, Przemysław Cieślak, Łukasz Szumiec, Magdalena Zygmunt, Magdalena Sikora

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#### P12.11

### A NEW MODEL TO STUDY DELAY DISCOUNTING IN GROUP HOUSED MICE <u>Łukasz Szumiec</u>, Jan Rodriguez Parkitna

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#### P12.12

#### LONG-TERM MORPHINE SELF-ADMINISTRATION SCHEDULE IN INTELLICAGES AS A PRECLINICAL MODEL OF OPIOID ABUSE IN MICE Urszula Skupio, Magdalena Sikora, Mateusz Turbasa, Ryszard Przewłocki

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#### P12.13

### CAN THE AMYGDALA CODE THE SUBJECTIVE IMPORTANCE OF HUMAN SOCIAL VALUES?

### <u>Emilia Leszkowicz</u><sup>1</sup>, George Zacharopoulos<sup>2</sup>, David Linden<sup>2</sup>, Gregory R Maio<sup>2</sup>, Niklas Ihssen<sup>2</sup>

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#### P12.14

#### INFLUENCE OF GLUTAMATE INJECTION INTO UNILATERAL NUCLEUS ACCUMBENS SHELL ON BEHAVIORAL RESPONSE ELICITED BY IPSILATERAL STIMULATION OF THE MESOLIMBIC SYSTEM

#### Karolina Plucińska, Grażyna Jerzemowska, Magdalena Podlacha

Department of Animal and Human Physiology, Faculty of Biology, University of Gdańsk, Gdańsk, Poland

#### P12.15

#### BEHAVIORAL AND NEURAL CORRELATES OF ATTENTION NETWORK TEST IN ADHD CHILDREN AND TEENAGERS: AN EVENT RELATED POTENTIAL STUDY

<u>Katarzyna Anna Giertuga</u><sup>1</sup>, Marta Zakrzewska<sup>2</sup>, Ewa Racicka<sup>3</sup>, Maksymilian Bielecki<sup>4</sup>, Małgorzata Kossut<sup>1,4</sup>, Anita Cybulska-Kłosowicz<sup>1</sup>

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#### P12.16

## INVOLVMENT OF INHIBITORY SKILLS IN BEHAVIOUR OF MICE SUBJECTED TO DETOUR TEST

#### <u>Grzegorz Juszczak</u>, Michał Miller

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#### P12.17

#### AMPHETAMINE INJECTION INTO CONTRALATERAL NUCLEUS ACCUMBENS SHELL ALTERS FEEDING EVOKED BY STIMULATION OF THE MESOLIMBIC SYSTEM

#### Grażyna Jerzemowska, Karolina Plucinska, Kacper Ptaszek

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#### P12.18

### BEHAVIOURAL AND NEURAL CORRELATES OF ACTION SELECTION: PROBING INDECISIVENESS IN OBSESSIVE-COMPULSIVE DISORDER

#### <u>Bartosz Żurowski</u><sup>1</sup>, Antonie Arnoldussen<sup>1</sup>, Andreas Kordon<sup>1</sup>, Thilo van Eimeren<sup>2</sup>, Fritz Hohagen<sup>1</sup>

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### P12.19

#### AGE-RELATED EFFECTS OF 5HT1A RECEPTORS ACTIVATION ON SEROTON Maria Krotewicz<sup>1</sup>, Magdalena Strzelczuk<sup>1</sup>, Maria K. Krotewicz<sup>2</sup>

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#### P12.20

#### CHRONIC FLUOTEXINE TREATMENT DISRUPTS APETITIVELY MOTIVATED LEARNING AND CENTRAL AMYGDALA STRUCTURAL PLASTICITY

#### <u>Alicja Puścian</u>, Szymon Łęski, Maciej Winiarski, Łukasz Charzewski, Jewgienij Nikołajew, Magdalena Dziembowska, Ewelina Knapska

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