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MEDICAL UNIVERSITY OF SILESIA, Zabrze-Rokitnica

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INSTITUTE OF PHARMACOLOGY,
POLISH ACADEMY OF SCIENCES, Kraków

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SCIENTIFIC PROGRAM

THE FIFTEENTH DAYS OF NEUROPSYCHOPHARMACOLOGY

M o n d a y , 2 9 . 0 5 . 2 0 0 6

Chair: Edmund PRZEGALIŃSKI

LECTURE

Juan Segura-Aguilar: **MONOAMINE TRANSPORTER INHIBITORS AND NOREPINEPHRINE INHIBIT DOPAMINE-DEPENDENT IRON NEUROTOXICITY**

Discussion

 **Break**

ORAL PRESENTATIONS: Antidepressants, anxiolytics and neurotransmitter systems interactions

Chair: Marek KOWALCZYK

Marta Dziejzicka-Wasylewska, Joanna Solich, Paulina Pałach, Agata Faron-Górecka, Maciej Kuśmider, Heinz Bonisch: **BEHAVIORAL EFFECTS OF CITALOPRAM AND TIANEPTINE IN MICE LACKING THE NORADRENALINE TRANSPORTER.**

Maciej Kuśmider, Agata Faron-Górecka, Marta Dziejzicka-Wasylewska: **IS THE INCREASE IN BDNF mRNA EXPRESSION AN INDICATOR OF ANTIDEPRESSANT EFFICACY?**

Joanna Dąbrowska, Michał Bryliński, Przemysław Nowak, Ryszard Brus: **BIOCHEMICAL AND MOLECULAR MODELING STUDY FOCUSED ON STEREOSELECTIVITY OF 8-OH-DPAT TOWARD THE SEROTONIN 5-HT_{1A} RECEPTOR.**

Aleksandra Bortel, Przemysław Nowak, Joanna Dąbrowska, Ryszard Brus: **NEONATAL LESION OF THE NORADRENERGIC SYSTEM MODIFIES ANXIETY-LIKE BEHAVIOR AND GABAERGIC NEUROTRANSMISSION IN THE PREFRONTAL CORTEX OF ADULT RATS.**

Lucyna Pomierny-Chamiło, Agnieszka Cichy, Małgorzata Dybała, Andrzej Pilc, Gabriel Nowak: MTEP-INDUCED ADAPTATION OF ADRENERGIC RECEPTORS.

Magdalena Sowa, Bernadeta Szewczyk, Artur Czupryn, Janina M. Wierońska, Maria Śmiałowska, Jolanta Skangiel-Kramska, Gabriel Nowak: EFFECT OF CHRONIC ANTIDEPRESSANT DRUGS AND ZINC TREATMENT ON SYNAPTIC HIPPOCAMPAL ZINC CONCENTRATION IN RATS.

Agnieszka Cichy, Lucyna Pomierny-Chamiło, Małgorzata Dybała, Gabriel Nowak: ZINC-INDUCED ADAPTATION IN ADRENERGIC RECEPTORS.

Adam Roman, Dominika Nawrat, Marta Kowalska, Irena Nalepa: THE EFFECTS OF SINGLE AND REPEATED ADMINISTRATION OF ECS ON SOME PARAMETERS OF THE ACTIVITY OF PERITONEAL MACROPHAGES.

Anna Skórzewska, Andrzej Bidziński, Małgorzata Lehner, Danuta Turzyńska, Aleksandra Wisłowska-Stanek, Małgorzata Zienowicz, Alicja Sobolewska, Janusz Szyndler, Piotr Maciejak, Ewa Taracha, Adam Płaźnik: THE EFFECTS OF CHRONIC ADMINISTRATION OF CORTICOSTERONE ON ANXIETY-LIKE BEHAVIOR AND c-FOS EXPRESSION IN THE BRAIN STRUCTURES.



Lunch time

Symposium dedicated to Prof. dr hab., dr h.c. mult. JERZY VETULANI
on the occasion of 50th anniversary of his scientific activity

Chairs: Zbigniew S. HERMAN, Ryszard BRUS

LECTURES

Zbigniew S. Herman: **After more than a half of century of psychopharmacology. To the distinguished Professor Dr, Dr h.c. Jerzy Vetulani (his old friend – reflections)**

Richard M. Kostrzewa: **Selective neurotoxins and neuro-science – approaching the golden anniversary**

Lucyna Antkiewicz-Michaluk: **Wide perspectives of therapeutic application of an endogenous compound from 1,2,3,4-tetrahydroisoquinoline group**



Coffee break

Andrzej Pilc: **Investigations of receptor changes induced by antidepressant drugs in the late 1970s – early 1980s**

Piotr Popik: **Antidepressant-like actions of nicotinic receptor agonists and antagonists**

Irena Nalepa: **New vistas on the mode of action of antidepressants**

T u e s d a y , 3 0 . 0 5 . 2 0 0 6

Chair: Krystyna OSSOWSKA

LECTURE

Yousef Tizabi: **WHY DRINKERS SMOKE? A PHARMACOLOGICAL PERSPECTIVE**

□ **Discussion**

🕒 **Break**

ORAL PRESENTATIONS: Neurotoxicity and neuroprotection

Chair: Lucyna ANTKIEWICZ-MICHALUK

Jolanta Konieczny, Jadwiga Wardas, Tomasz Lenda, Małgorzata Zapała, Krystyna Ossowska: INFLUENCE OF STIMULATION OF GROUP III mGluRS BY ACPT-1 ON THE PARKINSONIAN-LIKE AKINESIA AND ACTIVITY OF STRIATAL OUTPUT NEURONS IN RATS.

Katarzyna Kuter, Przemysław Nowak, Jadwiga Wardas, Maria Śmiałowska, Joanna Wierońska, Barbara Zięba, Joanna Dąbrowska, Aleksandra Bortel, Izabela Biedka, Małgorzata Pietraszek, Elżbieta Lorenc-Koci, Jolanta Konieczny, Małgorzata Zapała, Krystyna Ossowska: INFLUENCE OF THE SUBCHRONIC ADMINISTRATION OF A PESTICIDE PARAQUAT ON THE DOPAMINERGIC SYSTEM IN RATS.

Grażyna Szczerbak, Przemysław Nowak, Aleksandra Bortel, Joanna Dąbrowska, Adam Kwieciński, Marzena Drosik, Ryszard Brus: ROLE OF NITRIC OXIDE IN AMPHETAMINE-INDUCED BIOGENIC AMINE RELEASE INTO BRAIN MICRODIALYSATE OF ADULT RATS PRENATALLY EXPOSED TO LEAD.

Przemysław Nowak, Aleksandra Bortel, Joanna Dąbrowska, Grażyna Szczerbak, Jarosław Gorzałek, Adam Kwieciński, Ryszard Szkilnik, Richard M. Kostrzewa, Ryszard Brus: EFFECT OF SIMULTANEOUS ONTOGENETIC LESION OF NORADRENERGIC AND DOPAMINERGIC NEURONS ON 5-HYDROXYTRYPTAMINE LEVEL IN THE BRAIN AND REACTIVITY OF DOPAMINE RECEPTORS IN RATS.

Bożena Gabryel, Małgorzata Chalimoniuk, Anna Stolecka, Katarzyna Waniek, Józef Langfort, Andrzej Małecki: INVOLVEMENT OF CALCINEURIN, nNOS AND cPLA₂ IN THE CYTOPROTECTIVE EFFECT OF FK506 AND CYCLOSPORIN A ON ASTROCYTES EXPOSED TO SIMULATED ISCHEMIA. AN *IN VITRO* STUDY.

Adam Hołownia, Jan J. Braszko: EFFECT OF ANGIOTENSIN II AND IV ON ERK1/2 AND CREB ACTIVATION IN RAT ASTROGLIAL CELLS.

Monika Leśkiewicz, Bogusława Budziszewska, Magdalena Tetich, Lucylla Jaworska-Feil, Agnieszka Basta-Kaim, Marta Kubera, Władysław Lasoń: INHIBITORY EFFECTS OF DEHYDROEPIANDROSTERONE AND PREGNENOLONE ON NECROTIC AND APOPTOTIC NEURONAL CELL DAMAGE.

Halina Car, Paweł Michaluk, Róża J. Wiśniewska: BACLOFEN AND HYPOXIA INFLUENCE MMP-2 AND MMP-9 IN THE RAT HIPPOCAMPUS.

Danuta Jantas-Skotniczna, Małgorzata Kajta, Władysław Lasoń: DEVELOPMENTALLY REGULATED VULNERABILITY OF NEOCORTICAL NEURONS TO EXCITOTOXIC AND APOPTOTIC STIMULI AND NEUROPROTECTIVE ROLE OF MEMANTINE.



Lunch time

Chair: Krzysztof WĘDZONY

ORAL PRESENTATIONS: Addiction

Małgorzata Frankowska, Małgorzata Filip, Anna Gołda, Magdalena Zaniewska, Edmund Przegaliński: EFFECTS OF GABA_B RECEPTOR LIGANDS ON THE "DEPRESSIVE-LIKE" BEHAVIOR IN RATS WITHDRAWN FROM COCAINE SELF-ADMINISTRATION.

Anna Gołda, Małgorzata Filip, Małgorzata Frankowska, Magdalena Zaniewska, Edmund Przegaliński: EFFECTS OF SEROTONIN (5-HT)_{1B} RECEPTOR LIGANDS ON COCAINE OR "NATURAL" (FOOD) REINFORCEMENT AND RELAPSE IN RATS.

Magdalena Zaniewska, Małgorzata Filip, Andrew C. McCreary, Karolina Wydra, Ewa Nowak, Edmund Przegaliński: INTERACTIONS OF SEROTONIN (5-HT)_{2C} RECEPTOR-TARGETING LIGANDS AND NICOTINE: LOCOMOTOR ACTIVITY AND DRUG DISCRIMINATION STUDIES.

Agnieszka Zelek-Molik, Adam Bielawski, Irena Nalepa: EXPRESSION OF G-PROTEIN ALPHA-SUBUNIT mRNA IN VARIOUS PERIODS AFTER CESSATION OF CHRONIC MORPHINE ADMINISTRATION.

Ewa Taracha, Stanisław J. Chrapusta, Małgorzata Lehner, Anna Skórzewska, Piotr Maciejak, Janusz Szyn- dler, Adam Płaźnik: NO CROSS-SENSITIZATION TO THE LOCOMOTOR EFFECTS OF MORPHINE AFTER REPEATED METHADONE ADMINISTRATION IN RATS.

Agnieszka Pachuta, Tomasz Dyląg, Jerzy Silberring, Jolanta Kotlińska: MORPHINE-CONDITIONED REWARD AND MORPHINE-INDUCED SENSITIZATION ARE INHIBITED BY NEUROPEP- TIDE FF (NPFF).

Agnieszka Wąsik, Lucyna Antkiewicz-Michaluk: THE EFFECT OF 1-METHYL-1,2,3,4-TETRA- HYDROISOQUINOLINE (1METIQ) ON MORPHINE MECHANISM OF ACTION IN BEHAVIORAL AND NEUROCHEMICAL STUDIES IN RATS.



Coffee Break

Chair: Adam PŁAŻNIK

ORAL PRESENTATIONS: Pharmacokinetics, seizures

Jacek Wójcikowski, Krystyna Gołębiewska, Władysława Anna Daniel: **INFLUENCE OF BRAIN DOPAMINERGIC SYSTEM ON CYTOCHROME P450 ACTIVITY IN THE LIVER.**

Ewa Bromek, Anna Haduch, Władysława A. Daniel: **ROLE OF CYTOCHROME P450 (CYP) IN DOPAMINE FORMATION.**

Agata Faron-Górecka, Maciej Kuśmider, Marta Dziedzicka-Wasylewska: **AFFINITY OF CLOZAPINE FOR DOPAMINE D₁ AND D₂ IN THE HEK 293 CELLS.**

Marta Kot, Władysława Anna Daniel: **OXIDATIVE CAFFEINE METABOLISM BY RECOMBINANT HUMAN CYTOCHROME P450 (CYP) ISOFORMS.**

Marta Jozwiak-Bebenista, Agnieszka Dejda, Jerzy Z. Nowak: **THE EFFECTS OF PACAP, VIP AND SOME RELATED PEPTIDES ON cAMP FORMATION IN RAT NEURONAL CULTURES.**

Aleksandra Przyborowska, Katarzyna Fijał, Agnieszka Chocyk, Katarzyna Markowicz-Kula, Marzena Maćkowiak, Krzysztof Wędzony: **EFFECTS OF PRENATAL DEXAMETHASONE ON PROLIFERATION AND MATURATION OF CORTICAL CELLS.**

Marta Jozwiak-Bebenista, Katarzyna Marciniak, Jerzy Z. Nowak: **COBALT CHLORIDE, A HYPOXIA-MIMICKING AGENT, DISTURBS RECEPTOR-MEDIATED AND DOES NOT AFFECT DIRECTLY DRIVEN STIMULATION OF cAMP IN RAT ASTROCYTE CULTURES.**

Mariusz Świąder, Marian Wielosz, Stanisław J. Czuczwar: **INFLUENCE OF CMX, AN ADENOSINE A₁ RECEPTOR ANTAGONIST, ON THE ANTICONVULSANT ACTION OF NEWER ANTIEPILEPTIC DRUGS IN MAXIMAL ELECTROSHOCK-INDUCED SEIZURES IN MICE.**

Tomasz Kocki, Ewa M. Urbańska, Marian Wielosz, Witold A. Turski: **ANTIEPILEPTIC DRUGS INFLUENCING GABA TRANSMISSION DECREASE SYNTHESIS OF KYNURENIC ACID *IN VITRO*.**

Bartłomiej Barczyński, Katarzyna Mróz, Tomasz Mróz, Marian Wielosz, Piotr Tutka: **CHRONIC ADMINISTRATION OF BUPROPION AFFECTS THE ANTICONVULSANT ACTIVITY OF SOME CONVENTIONAL ANTIEPILEPTIC DRUGS IN MICE.**

W e d n e s d a y , 3 1 . 0 5 . 2 0 0 6

Chair: Róża WIŚNIEWSKA

LECTURE

Jerzy Z. Nowak: **PATHOGENESIS AND TREATMENT OF AGE-RELATED MACULAR DEGENERATION (AMD)**

Discussion

Break

Chair: Gabriel NOWAK

ORAL PRESENTATIONS: Varia

Kamilla Blecharz-Klin, Agnieszka Piechal, Justyna Pyrzanowska, Elżbieta Wirth-Dzięciołowska, Ewa Widy-Tyszkiewicz: SPATIAL LEARNING IN SELECTED LINES OF HEAVY AND LIGHT MICE.

Elżbieta Nowakowska, Krzysztof Kus, Anna Czubak: NEW NORMALIZING DRUGS: CARBAMAZEPINE AND CLOZAPINE – THEIR INFLUENCE ON MEMORY FUNCTIONS AND ANXIOLYTIC EFFECT IN RATS.

Zdzisław Hoły, Róża Wiśniewska: EXAMINATION OF THE EFFECT OF NEURONAL NITRIC OXIDE SYNTHASE BLOCKADE ON RAT'S MEMORY IN THE OBJECT RECOGNITION TEST.

Róża Wiśniewska, Halina Car, Paweł Michałuk: ANTAGONISTS OF RECEPTORS GROUP I MGLUR RECEPTORS INFLUENCE MMP-2 AND MMP-9 IN RAT'S HIPPOCAMPUS.

Piotr Maciejak, Małgorzata Lehner, Danuta Turzynska, Janusz Szyndler, Andrzej Bidzinski, Ewa Taracha, Jerzy Walkowiak, Anna Skórzewska, Aleksandra Wisłowska, Alicja Sobolewska, Adam Plaźnik: ROLE OF MGLUR1 AND GABA IN FEAR MEMORY CONSOLIDATION IN THE KINDLED RATS.

Tomasz Kos: EFFECTS OF AN INHIBITOR OF SEROTONIN AND NORADRENALINE REUPTAKE, SIBUTRAMINE, ON BINGE-TYPE EATING IN RATS.

Dorota Pojda-Wilczek, Ewa Herba, Agata R. Plech, Stefan M. Pojda: INFLUENCE OF PETHIDINE INJECTION DURING PREMEDICATION ON VISUAL EVOKED POTENTIAL (VEP).

Dorota Pojda-Wilczek, Ewa Herba, Katarzyna Makowiecka, Stefan M. Pojda: INFLUENCE OF MIDAZOLAM ON VISUAL EVOKED POTENTIALS (VEP).

Małgorzata Berezińska, Anna Lorenc, Jolanta Rosiak, Jolanta B. Zawilska: PHOTIC CONTROL OF PINEAL MELATONIN SYNTHESIS: AN INPUT FROM DIFFERENT PHOTORECEPTORS?

Anna Lorenc, Małgorzata Berezińska, Jolanta B. Zawilska: DOPAMINE AND MELATONIN – TWO NEUROREGULATORS IN THE TURKEY RETINA.

Wanda Dyr, Janusz Ligieża, Wojciech Kostowski: THE INFLUENCE OF THE CANNABINOID RECEPTOR ANTAGONIST SR-141716 ON THE VOLUNTARY ETHANOL INTAKE IN WHP RATS



C o f f e e B r e a k

S P O N S O R S:

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