

International PhD Studies in Neurobiology

1st Nencki Institute PhD Student Conference

16-18 October, 2013, Nencki Institute, Warsaw

Organizing Committee: A. Szewczyk (Chair), L. Kaczmarek, A. Dobrzyń, K. Łukasiuk, M. Hunt, J. Skangiel-Kramska, J. Rędownicz, A. Wróbel, T. Wilanowski, M. Borkowska, M. Młacki

October 16, 2013 (Wednesday)

Welcome Session

(Conference Hall, Nencki Institute Neurobiology Center)

Chair: Adam Szewczyk

17.00-17.15	Welcome: Adam Szewczyk
17.15-18.00	Keynote lecture: Andrzej Dziembowski: Human ribonucleases in RNA metabolism and diseases
18.00-	Welcome reception (Reception Hall, Nencki Institute Neurobiology Centre)

October 17, 2013 (Thursday)

NeuroPhD meeting part I

Session 1

(Conference Hall, Nencki Institute Neurobiology Center)

Chairs: Stefan Kasicki, René Buchet

9.00- 9.30	Antal Nógrádi: Clonal stem cells in spinal cord repair - how do they know what to do?
9.30 -10.00	Romeo Cecchelli: The blood-brain barrier : an hurdle for the treatment of neurodegenerative diseases
10.00-10.15	Syune Nersisyan: Muscarinic receptors are responsible for cholinergic modulation of corticothalamic transmission from layer 6 to posteromedial thalamic nucleus
10.15-10.30	Karolina Laskowska-Macios: Influence of binocular deprivation on the gene and protein expression profiles in developing cat visual system
10.30-10.45	Le Duy Do: Annexin A6 and phospholipase D1 in catecholamine exocytosis in PC12 cells: a plausible relationship?
10.45-11.00	Diana Miszczuk: Post-traumatic epileptogenesis in APP/PS1 mouse model of Alzheimer's Disease
11.00-11.30	Coffee break

Session 2

(Conference Hall, Nencki Institute Neurobiology Center)

Chairs: Bożena Kamińska-Kaczmarek, Sreedhar Bojja

11.30 -12.00	Asla Pitkanen: From traumatic brain injury to post-traumatic epilepsy: molecular and circuitry reorganization leading to increased excitability
12.00- 12.15	Katarzyna Malenczyk: Endocannabinoid signaling in regulation of insulin secretion
12.15- 12.30	Mayank Chaturvedi: Neuroprotection from TIMP-1 and its nanoparticles
12.30- 12.45	Elżbieta Krasowska: Synaptic machinery alterations and nucleotide receptors-related signaling in hippocampus of normal and dystrophic mice
12.45- 13.00	Iuliia Pavlyk: Deficit of arginine affects actin organization in neuronal tumor cells
13.00- 14.00	Lunch

Session 3

(Conference Hall, Nencki Institute Neurobiology Center)

Chairs: Małgorzata Kossut, Fred Van Leuven

14.00 -14.30	Lutgarde Arckens: Multimodal plasticity in the visual cortex of the mouse upon vision loss
14.30- 14.45	Katarzyna Michalec: Carnitine transporters in the blood-brain barrier
14.45- 15.00	Ilona Kondratiuk: Glycogen synthase kinase-3beta affects size of dentate gyrus and species-typical behavioral tasks in transgenic and knockout mice
15.00- 15.15	Laszlo Gal: Grafted embryonic motoneurons contribute to the functional improvement of denervated hindlimb muscles
15.15- 15.30	Kamil Parobczak: The localization and function of Arc in the neuronal cell nucleus
15.30-16.00	Coffee break

Session 4

(Conference Hall, Nencki Institute Neurobiology Center)

Chairs: Sławomir Pikuła, Romeo Cecchelli

16.00-16.30	Oleh Stasyk: Anticancer therapies based on single amino acid deprivation: pro et contra
16.30- 16.45	Jan Suski: Novel strategy for the protection from oxidative stress in rodent mitochondria
16.45- 17.00	Piotr Przanowski: The role of transcription regulators Stat1 and Stat3 in microglia activation
17.00- 17.15	Bartłomiej Augustynek: Big conductance calcium-activated potassium channel in brain mitochondria
17.15- 17.30	Agnieszka Topolska-Woś: Dimerization of CacyBP/SIP as a "molecular switch" for ERK1/2 binding

17.30- 19.00

Poster session / wine and cheese

(Reception Hall, Nencki Institute Neurobiology Centre)

Chairs: K. Łukasiuk, M. Hunt

19.00- 20.00

PhD – DAY AFTER (panel discussion)

(Conference Hall, Nencki Institute Neurobiology Center)

Chair: J. Skangiel-Kramska

co-organized by Nencki Alumni Club (J. Barańska)

- Marek Wypych
- Wojtek Grajkowski
- Karolina Nowak
- Ksenia Meyza
- Marzena Stefaniuk
- Marta Bobeszko-Kacperska
- Magdalena Karetko-Sysa
- Kamila Duniec

October 18, 2013 (Friday)

NeuroPhD meeting part II

Co-organized by chairs of the Departments	Session 5: Research Objects: <u>What we study</u> (1 st floor Conference Room) Chair: Anna Filipek	Session 6: Experimental Methods: <u>How we study</u> (Konorski Hall, 2 nd floor) Chair: Mariusz Więckowski	Session 7: Models of diseases: <u>How we can help</u> (Conference Hall, Nencki Institute Neurobiology Center) Chair: Grzegorz Wilczyński
9.00- 9.10	Maria Bierzyńska: New method of inducing experimental stress	Kavita Ramji: The role of STAT3 and its transcriptional network in human melanoma cells	Małgorzata Bejtka: Glycogen metabolism in cells with glycogen branching deficiency
9.10- 9.20	Andrzej Foik: Cat as animal model in studies of the visual system	Kamila Nowak: Age-related differences in duration comparison revealed by MMN	Marta Kocyk: Infiltrating microglia show different gene expression profiles in low and high grade gliomas
9.20- 9.30	Dorota Kulesza: The role of STAT3 in population of cancer stem-like cells in human and murine melanoma cells	Agnieszka Płóciennikowska: Ultrastructural studies on CD14 distribution in LPS-stimulated macrophages	Joanna Bednarczyk: Expression of Methyl-CpG-binding domain protein 3 (MBD3) in the rat model of temporal lobe epilepsy
9.30- 9.40	Agata Aniszewska: The role of interleukin 6 in behavior of aged mice	Aleksandra Rumińska: Alterations in lipid metabolism by endogenously synthesized 2-AG leads to enhanced insulin action in skeletal muscle	Bożena Kuźniewska: Identification of serum response factor (SRF) – dependent genes in the kainic acid model of aberrant synaptic plasticity
9.40- 9.50	Agnieszka Skąlecka: mTOR kinase role in dendritic arbor formation of neonatal born neurons	Beata Drabarek: TNF α affects mitochondrial metabolism and nitric oxide production in vascular endothelial cells	Tomasz Bednarski: Lipid metabolism in obesity-induced and endurance training-induced left ventricular hypertrophy
9.50- 10.00	Natalia Chłodzińska: Delineation of brain structures in the <i>Monodelphis domestica</i> opossum brain	Lidia Wróbel: The novel role of Mia40 in biogenesis of membrane proteins in mitochondria	Marcin Woś: Does cholesterol accumulation in NPC fibroblasts affect mitochondrial metabolism?
10.00- 10.10	Agnieszka Mamińska: New regulators of cell signaling among endocytic proteins	Sam Stephen: Identification of endocytic proteins involved in IFN- α stimulated JAK-STAT signaling	Tomasz Zajkowski: Lithium chloride protects neurons from toxicity of cytosolic PrP
10.10- 10.20	Michał Laskowski: Mitochondrial potassium channels in <i>Dictyostelium discoideum</i>	Michał Stawarski: Genetically encoded FRET-based biosensor for MMP-9 activity	Kamil Kozieński: Adipose-derived Wnts modulate beta cell adaptation during progression of type 2 diabetes
10.20- 10.30	Paulina Sakowska: The interplay between the mitochondrial inner membrane formation MINOS complex and MIA pathway responsible for protein transport	Andrzej Szczepankiewicz: Ultrastructural rearrangement of the neuronal cell nucleus in synaptic plasticity	Michał Mlaćki: Grainyhead-like 1 (GRHL1) transcription factor in signaling pathways and in development of skin cancer
10.30-10.40	Zuzanna Kaczmarek: Search for new antiviral compounds against human enteroviruses using fragment screening methodology	Radosław Pluta: Structural studies of the protein machinery for DNA processing and translocation in bacteria conjugation	Natalia Tremolec: p38 MAPK- a master regulator of cellular faith
10.40- 11.00	<i>Sponsor presentation</i>	<i>Sponsor presentation</i>	<i>Sponsor presentation</i>

11.00- 11.30	Coffee break		
Session 8 (Conference Hall, Nencki Institute Neurobiology Center)			
Chairs: Katarzyna Nałęcz, Antal Nógrádi			
11.30 -12.00	Helmut Kettenmann: Properties and functions of microglial cells		
12.00- 12.10	Justyna Ulanska-Poutanen: Identification of microenviromental factors that control OPC differentiation during CNS remyelination		
12.10- 12.20	Agnieszka Kikulska: GRHL genes in human skin cancers		
12.20- 12.30	Paulina Urbańska: Analysis of ciliary protein FAP251		
12.30- 12.40	Dorota Przybylska: Investigation the role of NADPH oxidase 4 and the ATM kinase pathway in VSMCs senescence		
12.40- 12.50	Ewa Szczęśna: Kinesin-14 Ncd: mechanism of force generation and EB1-dependent localization at microtubule plus end		
12.50- 13.00	Anna Ćmoch: The effect of exogenous AnxA2 on expansion and mineralization of human osteosarcoma cells in vitro		
13.00- 13.10	Katarzyna Lepeta: MMP-9 3'UTR polymorphisms and their role in schizophrenia. The role of local translation		
13.10- 13.20	Anna Bot: Alterations in microRNA levels in the dentate gyrus in epileptic rats		
13.20- 13.30	Alicja Puścian: Highly replicable, fully automated measures of perseverative and social behaviors in IntelliCage system		
13.30- 13.40	Anna Oroń: Functional neuroanatomy of language		
13.40- 13.50	Rafał Płatek: L1 overexpression in rats with complete spinal cord transection influences retraction of CST axons and alters expression of neuronal plasticity engaged molecules		
13.50- 14.00	Anna Strzeszewska: DNA damage-induced signaling pathways leading to senescence of cancer cells		
14.00- 15.00	Lunch		
	BIO-INNOVATION – Why, How and When to start? (1 st floor Conference Room) Chairs: M. Szumowski, P. Nowicki	SCIENCE AND SOCIETY (Konorski Hall, 2 nd floor) Chair: A. Wróbel	GRANT OPPORTUNITIES (Conference Hall, Nencki Institute Neurobiology Center) Chairs: L. Kaczmarek, T. Wilanowski
15.00-16.30	<p>Mariusz Kruk (Institute of Cardiology, Warsaw Medical University)</p> <p>Karolina Dzwonek (Warsaw Medical University, project BASTION innovation manager)</p> <p>Paweł Wiśniewski (CEO, Inagen Sp. z o.o.)</p>	<p>Leszek Kuźnicki (Nencki Institute): Nencki Institute and society</p> <p>Andrzej Rabczenko (Employers of Poland): Why in normal countries scientists are normal?</p> <p>Sławomir Zagórski (The Office of Ministry of Science and Higher Education): How to NOT popularize science</p>	<p>Maciej Żylicz (President of the Foundation for Polish Science)</p> <p>Jacek Kuźnicki (Director of the International Institute of Molecular and Cell Biology, NCN panel member)</p> <p>Agnieszka Walczak (Nencki Institute, Recipient of Preludium grant (NCN))</p> <p>Katarzyna Jednoróg (Nencki Institute, recipient of Iuventus Plus (MNiSW) and START grant (FNP))</p>

16.30- 17.00	Coffee break
Closing Session (Conference Hall, Nencki Institute Neurobiology Center)	
Chair: Adam Szewczyk	
17.00 – 17.15	Poster Award Ceremony
17.15 -17.45	Closing lecture: Fred Van Leuven : Alzheimer's disease: a paradigm of preclinical success and clinical failure
17.45 – 18.00	Closing remarks: Adam Szewczyk
18.00 -	Open meeting of the PhD student council Chair: Michał Młacki : The Nencki "hive" - PhD students community and its Council in the Nencki Institute