



KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI



Fundacja
im. Koprowskich



SAMORZĄD
WOJEWÓDZTWA POMORSKIEGO



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UNIWERSYTET GDAŃSKI



Spotkania z Nauką (5-12 lipca 2009) - Meetings with Science (5-12 July 2009)

Działanie realizowane w ramach Projektu
„**INNOpomorze - kampania promująca
przedsiębiorczość, innowacyjność i kreatywność na
Pomorzu**” współfinansowanego przez Unię Europejską
w ramach Europejskiego Funduszu Społecznego



1st Workshop on Plant Molecular Biotechnology
XV Biotechnology Summer School
5-12 July 2009 Gdańsk, Poland
Intercollegiate Faculty of Biotechnology UG-MUG
Kładki 24, 80-822 Gdańsk, Poland

Sunday		5 July 2009	
18:00	Welcome party (Lublewo, ul. Dojazdowa; 83-050 Kolbudy)		
Monday		6 July 2009	
07:30	08:45	Breakfast (Students Hotel, ul. Podwale Przedmiejskie 20, 80-826 Gdańsk)	
09:00	09:15	Welcome for 1st Workshop on Plant Molecular Biotechnology – XV Biotechnology Summer School	
09:15	10:00	Prof. Konstantin Skryabin	Opening lecture
10:05	10:50	Prof. Andrzej Legocki	Evolution of symbiotic interaction
10:55	11:45	Coffee break / Press conference for Meetings with Science	
11:45	12:30	Prof. Stanisław Karpiński	Can plants think? Evidences for Quantum-Photoelectrical Signaling Network and Cellular Light Memory in <i>Arabidopsis thaliana</i>
12:35	14:35	Lunch (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
14:35	15:35	Participants' presentations / Seminar with participants at IFB UG-MUG – prof. Stanisław Karpiński	
14:35	14:50	Joanna Banasiak	Full-size ABC transporters from the ABCG subfamily in <i>Medicago truncatula</i>
14:55	15:10	Andrew Shelenkov	Search of regular sequences in promoters from plant genomes
15:15	15:30	Yulia Meshcheryakova	<i>Cowpea Mosaic Virus</i> chimeric particles bearing ectodomain of matrix protein 2 (M2e) of Influenza A virus: production and characteristics
16:00	Tour of the city of Gdańsk		
18:00	20:00	Dinner (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	



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Tuesday		7 July 2009	
07:30	08:45	Breakfast (Students Hotel, Podwale Przedmiejskie 20, 80-826 Gdańsk)	
09:00	09:45	Prof. Igor Tikhonovich	<u>Microbe-plant systems:</u> Molecular genomics of microbe-plant systems
09:50	10:35	Dr. Aleksandr Ignatov	<u>Microbe-plant systems:</u> Role of environmental factors in plant-pathogenic bacteria interactions
10:40	11:10	Coffee break	
11:10	12:30	Participants' presentations	
11:10	11:25	Antos Shakhbazau	Engineering of Belarus potato cultivars for insect and fungal resistance
11:30	11:45	Alexey Muntyan	Molecular analysis of <i>Melilotus dentatus</i> inter- and intrapopulation diversity
11:50	12:05	Joanna Łażniewska	Fight to the death: exploring <i>Arabidopsis thaliana</i> - <i>Alternaria brassicicola</i> pathosystem
12:10	12:25	Yury Laktionov	Optimization of the form fertilizer biopreparation at use vermiculit as the carrier symbiotic and associative rhizobacteria
12:30	14:30	Lunch (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
14:30	15:15	Prof. Philip Lyons	<u>Microbe-plant systems:</u> Analysis of fungal diversity of tallgrass prairie soils including both bulk soil and rhizosphere communities, based on ribosomal DNA sequence comparisons
15:20	17:20	Participants' presentations / Seminar with participants at IFB UG-MUG – prof. Igor Tikhonovich	
15:20	15:35	Zoya Grushetskaya	Localization of Cf-6 tomato leaf mold resistance genes on tomato genetic map
16:00	16:15	Anete Keisa	Characterization of the disease resistance response of barley lesion mimic mutant nec1
16:20	16:35	Irina Leppyanen	Heterologous expression of the <i>Pisum sativum</i> receptor-like kinases SYM10 and SYM37 involved in recognition of bacterial signals Nod factors
16:40	16:55	Agnese Kokina	Characterisation of Mla - mildew resistance locus in Latvian barley breeding material
17:00	17:15	Ekaterina Ivanova	Experimental associations of cyanobacterium and actinomycetes isolated from natural symbiosis
18:00	20:00	Dinner (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
20:00		Games and plays (Students Hotel, Podwale Przedmiejskie 20, 80-826 Gdańsk)	

Wednesday		8 July 2009	
07:30	08:45	Breakfast (Students Hotel, ul. Podwale Przedmiejskie 20, 80-826 Gdańsk)	
09:00	09:45	Prof. Jari Valkonen	<u>Microbe-plant systems:</u> How do plant viruses protect their RNA genomes against degradation in infected cells?
9:50	10:05	Ilya Tukmachev	A mathematical model of viral diseases
10:10	10:40	Coffee break	
10:40	11:25	Prof. Jan Szopa-Skórkowski	<u>Plants as a "green factory":</u> Optimizing biomedical and industrial products development based on flax
11:30	12:50	Participants' presentations / Seminar with participants at IFB UG-MUG - prof. Rob Verpoorte	
11:30	11:45	Elena Suhanova	Plant cell culture from Polyscias genus species as a source of new biologically active additives
11:50	12:05	Barbara Sparzak	In vitro cultures of some plants from the genus Phyllanthus
12:10	12:25	Dmitriy Kropachev	The rose hips as a source of biologically active substances
12:30	12:45	Mariya Titova	Scale-up of plant cell suspension cultures for biomass and secondary metabolites production
12:50	14:50	Lunch (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
14:50	15:35	Prof. Rob Verpoorte	<u>Plants as a "green factory":</u> Plant cell factory: from blueprint to production
15:20	17:00	Participants' presentations	
15:40	15:55	Anna Kawiak	Plant-derived naphthoquinones as new potential cytostatic agents
16:10	16:15	Tomasz Furmanek	Callus formation and embryogenesis ability of different explants of seedlings of <i>Crambe abyssynica</i>
16:20	16:35	Roman Kotlyarov	Construction of recombinant virus-like nanoparticles carrying epitopes of rubella and influenza viruses
16:40	16:55	Adam Kawiński	Wax esters metabolism in jojoba seeds during germination
18:00	20:00	Dinner (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
20:30		Excursion to the Malbork castle - "Light and Sound"	



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Thursday		9 July 2009	
08:15	09:45	Breakfast (Students Hotel, Podwale Przedmiejskie 20, 80-826 Gdańsk)	
10:00	10:45	Prof. Anna Herman-Antosiewicz	<u>Plants as a "green factory":</u> Signal transduction pathways modulated by organosulfur compounds derived from Allium and Brassica in human cancer cells
10:50	11:05	Anna Ihnatowicz	Natural variation in Arabidopsis thaliana as a tool for identifying differentially expressed genes involved in the elicitation process of pharmacologically active plant secondary metabolites
11:10	11:40	Coffee break	
11:40	12:25	Dr. Seth Davis	<u>Plant resistance to biotic and abiotic factors:</u> Stress and the plant circadian clock
12:30	13:30	Participants' presentations / Seminar with participants at MUG - prof. Rob Verpoorte	
12:30	12:45	Alexander Zhernakov	The unique pea mutants SGECdt and SGEcrt as the models for studying plant stress reactions
12:50	13:05	Michał Nowak	Characterization of MnSOD gene expression changes in Polish barley cultivars in response to copper and manganese ions treatment
13:10	13:25	Elena Khlybova	Cell selection of barley on resistance to edaphic stresses
13:30	15:30	Lunch (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
15:30	16:15	Prof. Przemysław Wojtaszek	<u>Plant resistance to biotic and abiotic factors:</u> Mechanical integration of plant cells under normal conditions and in response to stress
16:20	17:40	Participants' presentations	
16:20	16:35	Yana Mishutkina	Genetic transformation of sugar beet (<i>Beta vulgaris</i> L.) and production of herbicide-resistant plants
16:40	16:55	Dorota Kierzek	Study on the weeds resistance toward herbicides on the example of <i>Apera spica-venti</i>
17:00	17:15	Yaroslav Nescorodov	Regeneration and genetic transformation of Russian sunflower cultivars and production of herbicide-resistant plants
17:20	17:35	Alexey Doroshkov	Using the computer-based image processing technique in genetic analysis of leaf hairiness in wheat <i>Triticum aestivum</i> L.
18:00	20:00	Dinner (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
20:30	Fancy-dress ball (Students Hotel, Podwale Przedmiejskie 20, 80-826 Gdańsk)		
Friday		10 July 2009	
07:30	08:45	Breakfast (Students Hotel, Podwale Przedmiejskie 20, 80-826 Gdańsk)	
09:00	09:45	Prof. Rob Verpoorte	<u>New trends and hot topics in plant biotechnology:</u> <i>In silico</i> or <i>on silica</i> separation? NMR or HPLC?
9:50	10:05	Olga Kulaeva	Study of molecular and genetic bases of pea mutant SGECdt for development soil purification systems
10:10	11:40	Coffee break	
11:40	12:25	Dr. Mikhail Eldarov	<u>New trends and hot topics in plant biotechnology:</u> Biofunctionalized magnetic nanoparticles – manufacturing, properties, applications
11:30	12:30	Participants' presentations / Seminar with participants at IFB UG-MUG - prof. Rob Verpoorte	
11:30	11:45	Kateryna Sytnyk	A model system for somatic segregation phenomenon investigation
11:50	12:05	Magdalena Miklaszewska	Characterization of substrate specificity of fatty acyl-coA reductases (FARs) using <i>Saccharomyces cerevisiae</i> as a model organism
12:10	12:25	Myroslav Parii	Practical approaches to realize reverse breeding conception
12:30	14:30	Lunch (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)	
14:30	15:00	Prof. Antoni Banaś	<u>New trends and hot topics in plant biotechnology:</u> Physiological role of phospholipid: diacylglycerol acyltransferases - a new class of enzymes involved in lipid metabolism
15:05	16:45	Participants' presentations	
15:05	15:20	Baiba Ievina	Development of retrotransposon-based molecular marker system for analysis of genetic diversity in Northern European populations of Sea Holly <i>Eryngium maritimum</i> L.
15:25	15:40	Dominika Czyżewska	Using of candidate gene approach to identify DNA markers for tuber starch content and cold sweetening in potato
15:45	16:00	Justyna Leśniowska-Nowak	Development of molecular markers for new dwarfing gene in triticale
16:05	16:20	Tomasz Kowalczyk	Self-excising tags – a novel way of recombinant protein purification?
16:25	16:40	Przemysław Wieczorek	Preliminary comparative analysis of proteome profile in tomato roots infected with root-knot nematode (<i>Meloidogyne hapla</i>)
19:00	Closing party (Chłopska Chata, ul. Giełguda 4 (Plac zebrań ludowych), 80-203 Gdańsk)		



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Saturday		
11 July 2009	<i>free time, informal meetings, departures</i>	
07:30	08:45	Breakfast (Students Hotel, ul. Podwale Przedmiejskie 20, 80-826 Gdańsk)
09:00	Ship excursion (Gdańsk-Westerplatte-Gdańsk)	
12:10	14:10	Lunch (Restaurant "Rarytas", Okopowa 21/27, 80-819 Gdańsk)
18:00	20:00	Dinner (Students Hotel, ul. Podwale Przedmiejskie 20, 80-826 Gdańsk)
Sunday		
12 July 2009	<i>free time, informal meetings, departures</i>	
07:30	08:45	Breakfast (Students Hotel, ul. Podwale Przedmiejskie 20, 80-826 Gdańsk)