

8th International Conference of Young Naturalists

- "From Biotechnology to Environmental Protection"
 - Interdisciplinary Meeting of Young Naturalists
 - 7 9 November 2013, Zielona Góra

Faculty of Biological Sciences, A-8 building, Szafrana 1, Zielona Góra

Organizers and the Scientific Committee

The Organizing Committee:

- Ita Szczepańska Head of the Organizing Committee
- Kamila Kacprzak
- Anita Leciejewska
- Ewelina Gronczewska

The Scientific Committee:

- dr Krystyna Walińska Head of the Scientific Committee
- dr hab. Joerg Bőehner, prof. UZ
- prof. dr hab. Beata Gabryś
- dr hab. Grzegorz Iszkuło, prof. UZ
- dr hab. Zbigniew Jakubiec, prof. UZ
- dr hab. Mariusz Kasprzak, prof. UZ
- prof. dr hab. Leszek Jerzak
- dr hab. Jacek Leluk, prof. UZ
- dr hab. Bartłomiej Najbar, prof. UZ
- prof. dr hab. Aleksander Sikorski
- prof. dr hab. Michał Stosik
- dr Marcin Bocheński
- dr Ewa Bok
- dr Renata Grochowalska
- dr Elżbieta Heger
- dr Dmytro Iakushenko
- dr Agnieszka Janiak-Osajca
- dr Andrzej Jurkowski
- dr inż. Andrzej Kasperski
- dr Beata Machnicka
- dr inż. Agnieszka Mirończyk
- dr Ewa Nowacka Chiari
- dr inż. Julia Nowak Jary
- dr Elżbieta Roland
- dr inż. Iwona Sergiel
- dr Anna Timoszyk
- dr Zbigniew Zawada
- mgr Olaf Ciebiera
- mgr Justyna Mazurek
- mgr Sebastian Pilichowski

Conference Schedule

Thursday 7.11.2013

8.30 - 12.00	Registration Introductory session (room 115)	
12.30 – 12.45	Prof. dr hab. Leszek Jerzak, dr Krystyna Walińska	Opening ceremony
12.45 – 13.45	Dr hab. Jacek Leluk, prof. UZ	The inaugural lecture – "Lethal vitamins, insidious aspirin, and life – sustaining cholesterol; another view on the known substances"
14.00 - 15.00	Lunch (room 124)	view on the known substances
	Poster session (hall on the ground floor)	
15.30 – 18.00	Presentations of posters by authors	_
	1	Molecular biology

Biotechnology
Environmental Protection

Friday 8.11.2013

Plenary session

Biotechnology, Molecular biology (room 115)

Biotechnology 9.00 - 9.20	Anna Grzybkowska (PhD student) Lodz University of Technology, Faculty of Chemistry	Can chlorine kinetic isotope effect really serve as a mechanistic tool for uncatalyzed hydrolysis of atrazine? – an insight from a combination of experiment and computation.
9.20 - 9.40	Milena Jabłońska (PhD student) Gdansk University of Technology, Department Chemistry	Microorganisms used for energy production
9.40 - 10.00	Agnieszka Rusak (PhD student) Department of Experimental Surgery and Biomaterials Research, Faculty of Dentistry, Wrocław Medical University	The influence of natural phenolics on viability of L929-cells
10.00 – 10.30	Coffee Break (room 124)	
10.30 – 10.50	Maria Rybarczyk (PhD student) Gdańsk University of Technology	Carbon with high nitrogen content doped with platinum as cathodic material
10.50 – 11.10	Lucyna Sławik-Dembiczak (PhD student) Czestochowa University of Technology, Institute of Environmental Engineering	Biogas purification using microalgae

Molecular biology

11.10 – 11.30	Kamila Duś-Szachniewicz (PhD student) Department of Pathology, Wrocław Medical University	How can human cell lines, body fluids and tissues be useful in oncoproteomics?
11.30 – 11.50	Tomasz Gulanicz Nicolaus Copernicus University, Toruń	The accumulation of poly(A)RNA in <i>Arabidopsis thaliana</i> coilin-mutated cells of NCB-1 and PCB-1 models
11.50 – 12.10	Kamila Kacprzak University of Zielona Góra, Faculty of Biological Sciences	Anion exchanger 1 and its involvement in erythrocyte and kidney disorders
12.10 – 12.30	Natalia Machalek (PhD student), Karolina Kacprzak (PhD student) University of Warmia and Mazury, Faculty of Agriculture and Environmental Management, Olsztyn	Thickness of electrophoresis gel – what is the influence on result of the electrophoresis
12.30 – 12.50	Agnieszka Machul (PhD student) Department of Microbiology, Jagiellonian University Medical College, Kraków	Does the concentration of glucose affects the quantity and biochemical structure of the <i>P. aeruginosa</i> biofilm formed in patients with chronic diabetic foot wounds?
12.50 – 13.10	Diana Mikołajczyk (PhD student) Department of Microbiology, Jagiellonian University Medical College, Kraków	Enzyme inhibitors effect on the biofilm formation by <i>Pseudomonas aeruginosa</i> isolated from chronic diabetic foot infection
13.10 – 13.30	Katarzyna Mystkowska (PhD student) University of Gdansk, Faculty of Biology	Barkoding DNA as molecular identification key to protected vascular plant in Gdansk Pomerania
13.30 – 13.50	Ludwik Odrzywołek (PhD student) Jagiellonian University Medical College, Kraków	The distribution of apolipoprotein E gene polymorphism in a Polish Rural population
13.50 – 14.10	Mateusz Rawski (PhD student) Poznań University of Life Sciences, Faculty of Animal Breeding and Biology, Department of Animal Nutrition and Feed Management	The effects of dietary probiotics on the growth performance and selected microflora populations of common musk turtle (<i>Sternotherus odoratus</i>)
14.10 – 15.10	Lunch (room 124)	
15.20 – 15.40	Ludwik Odrzywołek (PhD student) Jagiellonian University Medical College, Kraków	The structure of sensitizations among patients from Malopolska Region diagnosed for contact allergy: Comparison of the patch test results depending on the composition of the diagnostic series
15.40 – 16.00	Łukasz Smoliński University of Zielona Góra, Faculty of Biological Sciences	microRNAs (miRNAs) and Copy Number Variations (CNVs) – new revolution in the field of molecular biology and genetics
16.00 – 16.20	Marta Woźniak (PhD student) Department of Pathology, Wrocław Medical University	Relationship between the oxidative stress-associated Src activator and c Src tyrosine kinase in the mechanism of photodynamic therapy
16.20 – 16.40	Barbara Ziólkowska (PhD student) Department of Pathology, Wrocław Medical University	The autophagic response to photodynamic therapy

Anthropology, Zoology (room 213)

Anthropology		
9.00 - 9.20	Wahili Chiari Arcia Institute of Archaeology, University of Wroclaw	Biological and cultural aspects of albinism among Kuna people
9.20 - 9.40	Aleksandra Kuzan (PhD student) Research and Development Centre, Regional Specialized Hospital in Wroclaw Department of Medical Biochemistry, Wroclaw Medical University	The content of osteopontin in the arteries and the degree of atherosclerosis and calcification
9.40 - 10.00	Oliwia Patrzykąt University of Zielona Góra, Faculty of Biological Sciences	The morphological analysis of the teeth in the case study of the preserved human cranium
Zoology		
10.00 – 10.20	Anna Dzierżyńska Nicolaus Copernicus University, Department of Invertebrate Zoology, Toruń	The impact of a competitor <i>Dikerogammarus villosus</i> and predatory fish <i>Babka gymnotrachelus</i> on the habitat selection by an invasive gammarid <i>Pontogammarus robustoides</i>
10.20 – 10.40	Justyna Kierat (PhD student) Institute of Environmental Sciences, Faculty of Biology and Earth Sciences, Jagiellonian University, Kraków	Local mate competition in red mason bees (<i>Osmia rufa</i> L.)
10.40 – 11.10	Coffee Break (room 124)	
11.10 – 11.30	Bartosz Kierończyk (PhD student) Poznań University of Life Sciences, Faculty of Animal Breeding and Biology, Department of Animal Nutrition and Feed Management	Mineral nutrition of <i>Achatina fulica</i> using choice feeding experimental design
11.30 – 11.50	Michał Mięsikowski (PhD student), Barbara Wojciechowska, Natalia Wojciechowska Laboratory of Histology and Embryology of Vertebrates, Nicolaus Copernicus University, Toruń	Effects of nitrate on the early development of bony fish - preliminary results
11.50 – 12.10	Dawid Mika High School No. 3 by Stanisław Wyspiański in Jastrzębie-Zdroj	Origin and early evolution of lampreys (Petromyzontiformes)
12.10 – 12.30	Piotr Piliczewski (PhD student) Szczecin University, Faculty of Biology	Hybridization among snakes of the genus Lampropeltis (Serpentes; Colubridae; Colubrinae)
12.30 – 12.50	Monika Ratajczak University of Zielona Gora, Faculty of Mechanical Engineering, University of Zielona Gora, Faculty of Biological Sciences	The mechanical properties of the spinal cord in a state of uniaxial tension

12.50 – 13.10	Mateusz Rawski (PhD student) Poznań University of Life Sciences Faculty of Animal Breeding and Biology, Department of Animal Nutrition and Feed Management	Veterinary issues in captive breeding of African helmeted turtle (<i>Pelomedusa subrufa</i> Lacépède, 1788) – case report
13.10 – 13.30	Tomasz Rek (PhD student) Szczecin University, Faculty of Biology	Bird mortality on the roads running through the urban area and beyond
13.30 – 13.50	Edwin Sieredziński Faculty of Biology, University of Warsaw	Hybridization and animal phylogenetic development mechanisms
13.50 – 14.10	Łukasz Steczko Adam Mickiewicz University, Faculty of Biology, Department of Animal Morphology, Poznań	Evolutionary history of feather mites (Astigmata)
14.10 – 15.10	Lunch (room 124)	
15.20 – 15.40	Ita Szczepańska University of Zielona Gora, Faculty of Mechanical Engineering, University of Zielona Gora, Faculty of Biological Sciences	An innovative method for the treatment of hip dysplasia in small dogs
15.40 – 16.00	Paulina Szymańska Department of Animal Physiology, Faculty of Biology and Environmental Protection, Nicolaus Copernicus University, Toruń	Correlation between capacity for facultative non- shivering thermogenesis (NST) and resting metabolic rate of bank voles <i>Myodes</i> (= <i>Clethrionomys</i>) glareolus selected for high metabolic rate
Ecology, Botany (room 219)		
Ecology		
9.00 - 9.20	Michał Adamczyk Institute for Chemical Processing of Coal, Zabrze	Utilization of carbon dioxide in the cultivation of microalgae
9.20 - 9.40	Wojciech Borzyszkowski (PhD student) The Forestry Student's Association, Faculty of Forestry, Poznań University of Life Sciences	Biometric analysis of <i>Tsuga canadensis</i> (Carr.) stand on experimental site in Rogów Arboretum
9.40 - 10.00	Anna Gdula, Marcin Dyderski The Forestry Student's Association, Faculty of Forestry, Poznań University of Life Sciences	How does plant cover affect population of <i>Osmunda regalis</i> L. in the 'Baszków' nature reserve?
10.00 – 10.20	Wojciech Borzyszkowski (PhD student) The Forestry Student's Association, Faculty of Forestry, Poznań University of Life Sciences	Methods for determination of biomass plants in the forest ecosystem
10.20 – 10.40	Aleksandra Jakubowska (PhD student) Adam Mickiewicz University, Faculty of Biology, Poznań	Temporal features of bird song and the territorial defense in the ortolan bunting <i>Emberiza hortulana</i>

10.40 – 11.00	Anna Kowalska (PhD student), Luiza Dawidowicz, Marek Lorenc Department of Botany, Department of Horticulture and Landscape Architecture, University of Life Sciences, Poznań, Department of Horticulture and Landscape Architecture, University of Life Sciences, Poznań	Wilda – garden project for residents
11.00 – 11.20	Joanna Kowolik Jagiellonian University, Kraków	Don't be fooled by scale insects
11.20 – 11.50	Coffee Break (room 124)	
11.50 – 12.10	Weronika Kraczkowska Adam Mickiewicz University, Faculty of Biology, Institute of Environmental Biology, Department of Avian Biology and Ecology, Poznań	Breeding ecology of the urban population of Fieldfare (<i>Turdus pilaris</i> L.) in Poznań
12.10 – 12.30	Natalia Królikowska Faculty of Biology, Adam Mickiewicz University in Poznań	Mechanisms of territories clustering in songbirds: Wood Warbler as a case study
12.30 – 12.50	Katarzyna Myślicka (PhD student) University of Zielona Góra, Faculty of Biological Sciences	Influence of climate on leaf morphological variation
12.50 – 13.10	Sandra Wajchman (PhD student) Poznań University of Life Sciences, Faculty of Forestry	The development of forest landscape in urban and suburban areas
Botany		
13.10 – 13.30	Agnieszka Rogula (PhD student) Medical University of Wrocław, Chair and Department of Pharmacognosy, Wrocław University of Environmental and Life Science Department of Fruit, Vegetable and Cereals Technology	Estimation of agrimoniin and allagic acid content in different strawberry fructification phases
13.30 – 13.50	Marcin Dyderski, Anna Gdula The Forestry Student's Association, Faculty of Forestry, Poznań University of Life Sciences	Expansion of the alien woody plants in the Warta river valley in Poznań
13.50 – 14.10	Ewelina Paluch (PhD student) Department of Plant Physiology, Faculty of Biology, Adam Mickiewicz University, Poznań	Effect of drought stress on plasma membrane protein levels of mycorrhized maize root
14.10 – 15.10	Lunch (room 124)	
15.20 – 15.40	Agnieszka Cabala Wrocław University Environmental and Life Sciences, The Faculty of Life Sciences and Technology	The effect of a dose and a type of fertilization on decorative value of the selected ornamental perennial species
15.40 – 16.00	Agnieszka Stelmasik Adam Mickiewicz University, Department of General Botany, Institute of Experimental Biology, Poznań	The mystery of underground death in plants

Environmental Protection (room 321)

Environmental Protection

9.00 - 9.20	Izabela Belz, Wojciech Borzyszkowski (PhD student) The Forestry Student's Association, Faculty of Forestry, Poznań University of Life Sciences	The image of The State Forests National Forest Holding in society
9.20 - 9.40	Leszek Gersztyn (PhD student) Wrocław University of Environmental and Life Science, Institute of Soil Science and Environmental Protection	The influence of sewage sludge on growth and intake of heavy metals by perennial ryegrass (<i>Lolium Perenne</i> L.) from uncontaminated soils
9.40 - 10.00	Bartlomiej Glina (PhD student) Institute of Soil Science and Environmental Protection, Wroclaw University of Environmental and Life Scinces	Chemical composition of peat waters of selected peatland areas in the central part of Sudetes
10.00 – 10.30	Coffee Break (room 124)	
10.30 – 10.50	Jakub Jakubowski (PhD student), Krzysztof Polowy (PhD student) Poznan University of Life Sciences, Faculty of Forestry, Department of Forest Technology	Technical solutions for biomass procurement in the forest
10.50 – 11.10	Maciej Jędrzejczak, Artur Skitek Faculty of Biology, Adam Mickiewicz University, Poznań	The regression of rare and protected plants species on the selected areas of strict protection in the Wielkopolska National Park: state of resources, cause of vanishing
11.10 – 11.30	Agata Kiałka (PhD student) University of Wroclaw	Specificity of butterfly-ant myrmecophilous relationships and population size in the Large Blue <i>Phengaris</i> (= <i>Maculinea</i>) (Lepidoptera: Lycaenidae) at Bystrzyca valley (Natura 2000 "Łęgi nad Bystrzycą" and "Dolina Widawy")
11.30 – 11.50	Krzysztof Kolenda, Mikolaj Kaczmarski (PhD student) Department of Evolutionary Biology and Conservation of Vertebrates, University of Wroclaw, Institute of Zoology, Poznan University of Life Science	Overexploitation of amphibian populations in the age of their global extinction
11.50 – 12.10	Łukasz Mendyk (PhD student) Department of Soil Science and Landscape Management, Faculty of Earth Sciences, Nicolaus Copernicus University, Toruń	Properties of soil organic matter in soils derived from lake sediments in Sumowskie Lakes catchment
12.10 – 12.30	Piotr Olszewski (PhD student) Faculty of Biology and Environment Protection, Chair of Ecology and Biogeography, Toruń	Preliminary research on potter wasp (Hymenoptera: Eumenidae) in valley areas of North Poland
12.30 – 12.50	Paulina Anna Rutkowska (PhD student) Nicolaus Copernicus University, Faculty of Earth Science, Toruń	The rate of podzolization in the chronosequence of soils under pine timber forest on dunes in the Toruń Basin

12.50 – 13.10	Agnieszka Sala (PhD student) University of Wrocław, Faculty of Biological Science, Department of Evolutionary Biology and Ecology, Division of Invertebrate Biology	Bionomics, population structure and threats subpopulation of the Violet Cooper <i>Lycaena helle</i> (Denis et Schiffermüller, 1775) (Lepidoptera: Lycaenidae) on the Natura 2000 "Bierutów"
13.10 – 13.30	Sebastian Salata Department of Biodiversity and Evolutionary Taxonomy University of Wrocław	Results of myrmecological stocktaking of the Stołowe Mountains National Park fauna
13.30 – 13.50	Emil Mariusz Szymański (PhD student) Wrocław University of Economics Faculty of Economics, Management and Tourism	Meaning of protection of honey bees against mites <i>Varroa destructor</i>
13.50 – 14.10	Adrian Wieruszewski University of Zielona Góra, Faculty of Biological Sciences	The importance of allotments in the conservation of biodiversity
14.10 – 15.10	Lunch (room 124)	
Poster session (hall on the ground floor)		
15.30 – 18.00	Presentations of posters by authors	Botany Ecology Anthropology Zoology
20.00 - 24.00	Integration meeting (Minibrowar "Haust",	
Saturday 9.11.2013		
0.00 11.00		
9.30 - 11.30		City tour
9.30 – 11.30 12.00 – 13.30	Presentation of awards	s and closing ceremony (room 115)