



9th International Conference of Young Naturalists
- "From Biotechnology to Environmental Protection"
- Interdisciplinary Meeting of Young Naturalists
6 - 8 November 2014, Zielona Góra

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

Conference Schedule

Thursday 6.11.2014

8.30 - 12.00 Registration (room 310A)

Introductory session (room 115)

12.30 – 12.45 *Prof. Leszek Jerzak,
dr Krystyna Walińska*

Opening ceremony

12.45 – 13.45 *Prof. Beata Gabryś, D.Sc.*

The inaugural lecture – “Multitrophic interactions in coevolutionary perspective”

14.00 – 15.00

Lunch (room 124)

Poster session (hall on the ground floor)

(please put posters on the tables, according to the numbers, from 9.00 and take away after the poster session)

15.30 – 18.00 Presentations of posters by authors

Molecular biology
Biotechnology
Environmental Protection

Friday 7.11.2014

Plenary session

Molecular biology, Biotechnology (room 219)

Molecular biology

9.00-9.20 *Agata Żyźniewska*
University of Zielona Góra, Faculty of
Biological Sciences, Zielona Góra,
Poland

**Mutations linked in hydroxysteroid
dehydrogenases family**

9.20-9.40 *Adrian Arendowski*
Rzeszów University of Technology,
Faculty of Chemistry, Rzeszów, Poland

**ADSRRS-fingerprinting and PCR MP – modern
methods of genotyping of microorganisms**

9.40-10.00 *Luiza Dawidowcz*
Poznan University of Life Sciences,
Faculty of Horticulture and Landscape
Architecture, Poznań, Poland

**The comparison of the growth of mycelium and
yielding of several strains of *Coprinus comatus*
(Muller: Fries) S. F. Gray acquired from the natural
stands of various Polish regions**

10.00 – 10.30

Coffee Break (room 124)

- 10.30 – 10.50 **Rafał Filip**
University of Zielona Góra, Faculty of Biological Sciences, Zielona Góra, Poland
Comparative analysis of the M2 proteins of influenza virus A.
- 10.50 – 11.10 **Kornelia Gajek**
Wrocław Medical University, Wrocław, Poland
Glucose transporters in invasive ductal breast cancer
- 11.10 – 11.30 **Konrad Hus**
Rzeszów University of Technology, Faculty of Chemistry Rzeszów, Poland
Epigenetic control of gene expression. Characteristic of some imprinted gene clusters and how their aberrations could cause serious disorders
- 11.30 – 11.50 **Anton Lavrinienko**
Kyiv National Taras Shevchenko University, ESC "Institute of Biology", Kyiv, Ukraine
Estimation of the spontaneous mutation rate in loci *cn* in natural population of *Drosophila melanogaster*
- 11.50 – 12.10 **Agnieszka Rusak**
Wrocław Medical University, Department of Histology and Embryology, Poland
Ykl-40: a potential biomarker in breast cancer
- 12.10 – 12.30 **Edwin Sieredziński**
University of Warsaw, Faculty of Biology, Institute of Zoology, Warsaw, Poland
Beyond interspecies barriers: why do not species melt away despite hybridization?
- 12.30 – 12.50 **Barbara Wierzowiecka**
Wrocław Medical University, Department of Histology and Embryology, Poland
Expression of metallothionein isoforms (MT) and vascular endothelial growth factor (VEGF) in breast cancer cells
- 12.50 – 13.10 **Gabriela Żaroffe**
University of Zielona Góra, Faculty of Biological Sciences, Zielona Góra, Poland
Neuraminidase, hemagglutinin and M2 as the most important proteins of the influenza type A virus. Mutations causing drug-resistance

Biotechnology

- 13.10 – 13.30 **Ewelina Gronczewska**
University of Zielona Góra, Faculty of Biological Sciences, Zielona Góra, Poland
Synthesis nanoparticles of iron oxide coated chitosan- application
- 13.30 – 13.50 **Agnieszka Machul**
Department of Microbiology, Jagiellonian University Medical College, Cracow, Poland
Effect of proteolytic enzymes contained in the metabolites produced by *bacteria Pseudomonas aeruginosa* on *Staphylococcus aureus* biofilm in patients with chronic otitis media
- 13.50 – 14.10 **Diana Mikołajczyk**

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| | <i>Department of Microbiology, Jagiellonian University Medical College, Cracow, Poland</i> | The role of biopolimer - chitozan in reduction of the pseudomonas aeruginosa bacteria isolated from chronic diabetic foot infection |
| 14.10 – 15.00 | | Lunch (room 124) |
| 15.00 – 15.20 | Anna Ostrowska <i>Poznan University of Life Sciences, Department of Chemistry, Poland</i> | Distribution of selected fungal metabolites in different fractions of winter wheat grain from different cultivation systems |
| 15.20 – 15.40 | Paulina Rokicka <i>West Pomeranian University of Technology, Institute of Chemical and Environment Engineering, Szczecin, Poland</i> | The antibacterial activity of photocatalysts based on commercial amorphous TiO₂ modified by nitrogen and nitrogen/carbon |
| 15.40 – 16.00 | Anna Ostrowska <i>Poznan University of Life Sciences, Department of Chemistry, Poland</i> | Phenolic acids in the different fractions of wheat grain from different cultivation systems |
| 16.00 – 16.20 | Katarzyna Walkowiak <i>University of Zielona Góra, Faculty of Biological Sciences, Zielona Góra, Poland</i> | Microorganisms living in our environment |

Human biology, Zoology (room 18)

Human biology

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| 9.00-9.20 | Jędrzej Baszyński <i>Nicolaus Copernicus University, Collegium Medicum in Bydgoszcz, Department of Ecology and Environmental Protection, Bydgoszcz, Poland</i> | Influence of xenobiotics in sperm on spermatogenesis disturbances |
| 9.20-9.40 | Martyna Siudak <i>University of Gdansk, Gdańsk, Poland</i> | Salivary cortisol and other parameters during the driving license course |

Zoology

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| 9.40-10.00 | Barbara Franielczyk <i>University of Silesia, Department of Zoology, Faculty of Biology and Environmental Protection, Katowice, Poland</i> | The structure of the forewing articulation among representatives of Sternorrhyncha (Hemiptera) |
| 10.00 – 10.20 | Natalia, Kaszyca, Arkadiusz Imiela <i>University of Silesia, Department of Zoology, Faculty of Biology and Environmental Protection, Katowice, Poland</i> | Orthoptera of various habitats of Eastern Beskidy Mountains |
| 10.20 – 10.40 | Agata Kiałka <i>University of Wrocław, Faculty of Biological Sciences, Wrocław, Poland</i> | Water beetles of Fiji, New Caledonia and Australia - genus Scirtes (Coleoptera: Scirtidae) |

10.40 – 11.10

Coffee Break (room 124)

11.10 – 11.30

Piotr Piliczewski
*Szczecin University, Faculty of Biology,
Szczecin, Poland*

**Response of blackbirds (*Turdus merula*) from the
Central Cemetery in Szczecin to models of different
nest predators**

11.30 – 11.50

Tomasz Rek
*Szczecin University, Faculty of Biology,
Szczecin, Poland*

Vertebrate road mortality in different landscape

11.50 – 12.10

Edwin Sieredziński
*Institute of Zoology, Faculty of Biology,
University of Warsaw, Warsaw, Poland*

**Endemits: does aquatic entomofauna evolve like
other water animal taxa?**

14.00 – 15.00

Lunch (room 124)

Ecology, Botany (room 115)

Botany

9.00-9.20

Anna Kowalska
*Poznan University of Life Sciences,
Faculty of Horticulture and Landscape
Architecture, Poznań, Poland*

**Viability of seeds in selected localities of *Pyrus
calleryana* (Decne.) in Poznań**

9.20-9.40

Katarzyna Mysłicka
*University of Zielona Góra, Faculty of
Biological Sciences,
Zielona Góra, Poland*

**Do traits related to irregularity of leaf margin
change during the growing season?**

9.40-10.00

Wojciech Mandryk
*University of Zielona Góra, Faculty of
Biological Sciences, Zielona Góra,
Poland*

**Sex ratio of population of common juniper
(*Juniperus communis* L.) in Torzym Forest District**

Ecology

10.00 – 10.20

Marcin K. Dyderski,
*The Forestry Student's Association,
Faculty of Forestry, Poznań University
of Life Sciences, Poznań, Poland*

**Response of ancient woodland indicator species to
anthropopressure in urban forests of Poznań**

10.20 – 10.40

Martyna Jankowska-Jarek
*University of Gdansk, Faculty of
Biology, Poland*

**Factors affecting occupation of bat boxes in forests
of Northern Poland – first results including thermal
conditions**

10.40 – 11.00

Anna Kowalska, Luiza Dawidowicz
*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*

Historical parks in Poznań

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| 11.00 – 11.20 | Bartosz Lysakowski <i>Lehrstuhl Allgemeine Ökologie, Brandenburgische Technische Universität Cottbus, Germany</i> | Carcasses in water bodies |
| 11.20 – 11.50 | Coffee Break (room 124) | |
| 11.50 – 12.10 | Wojciech Borzyszkowski <i>The Forestry Student's Association, Faculty of Forestry, Poznań University of Life Sciences, Poznań, Poland</i> | Biometrical characteristic of selected oak stands different age classes in Piaski Forest District |
| 14.00 – 15.00 | Lunch (room 124) | |

Environmental Protection (room 22)

Environmental Protection

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| 9.00-9.20 | Natalia Czapiewska <i>Poznań University of Life Sciences, Botanical Section of the Forestry Students' Association, Poznań, Poland</i> | Diversity of plant communities in raised and transitional bogs in the 'Bory Tucholskie' National Park |
| 9.20-9.40 | Paulina A. Rutkowska <i>Nicolaus Copernicus University, Faculty of Earth Sciences, Department of Soil Science and Landscape Management, Toruń, Poland</i> | The vertical differentiation of organic matter content in chronosequences of soils in the 150 years cycle of the pine timber forest plantation on dunes in the Toruń Basin |
| 9.40-10.00 | Jakub Jakubowski <i>Poznan University of Life Sciences, Faculty of Forestry, Department of Forest Technology, Poland</i> | Changes in soil cohesion caused by passage of a Ponsse HS10 harvester |
| 10.00 – 10.30 | Coffee Break (room 124) | |
| 10.30 – 10.50 | Łukasz Mendyk <i>Nicolaus Copernicus University, Faculty of Earth Science, Department of Soil Science and Landscape Management, Toruń, Poland</i> | Soil and vegetation cover correspondence in young glacial landscapes - Brodnica Landscape Park case study |
| 10.50 – 11.10 | Jakub Jakubowski <i>Poznan University of Life Sciences, Faculty of Forestry, Department of Forest Technology, Poland</i> | The effect of passage of a Logset 3F forwarder on soil cohesion |
| 11.10 – 11.30 | Krzysztof Turczański <i>University of Life Sciences in Poznan</i> | Common ash problem. Dieback of <i>Fraxinus excelsior</i> L. in Poland and European field |
| 11.30 – 11.50 | Agnieszka Sala <i>University of Wrocław, Faculty of</i> | Butterflies from the genus <i>Erebia</i> Dalman 1816 in |

*Biological Science, Przybyszewskiego
62/77, 51-148 Wrocław, Poland*

Karkonosze Mountains

11.50 – 12.10 ***Łukasz Tomczyk***
*Poznań University of Life Sciences,
Department of Food Quality
Management, Poznań, Poland* **Impact assessment of the management of poultry
on the environment**

12.10 – 12.30 ***Luiza Dawidowicz***
*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* **Content of heavy metals in soil and selected species
of tree plants growing in the urban areas**

14.00 – 15.00 **Lunch (room 124)**

Poster session (hall on the ground floor)

(please put posters on the tables, according to the numbers, from 8.00 and take away after the poster session)

15.30 – 18.00 Presentations of posters by authors

Botany
Ecology
Human biology
Zoology

20.00 – 24.00 **Integration meeting (Minibrowar “Haust”, Pl. Pocztowy 9, Zielona Góra)**

Saturday 8.11.2014

9.30 – 11.30 **City tour**

12.00 – 13.30 **Presentation of awards and closing ceremony (room 115)**

13.30 **Farewell treat**