

The 1st CONFERENCE of POST-UP

Date: **January 22 – 23, 2014**

Venue: The Hall of the **Law Faculty** of Palacky University
in Olomouc, 6 17th Listopadu, Olomouc

PROGRAM

January 22, 2014

Natural Sciences

8.30-9.00 Registration

9.00-9.15 Opening Ceremony, **Prof. RNDr. Miroslav Mašláň, CSc.**

Chaired by: **prof. RNDr. Tomáš Opatrný, Dr.**

9.15-9.30 Pushpinder Singh, Ph.D., Faculty of Science,
Department of Computer Science
„Ranking fuzzy numbers and its applications“

9-30-9.45 Elena Stepanova, Ph.D., Faculty of Science,
Department Algebra and Geometry
„Robustness of networks, topological properties“

9.45-10.00 MgA. Christian T. Herbst, Ph.D., Faculty of Science,
Department of Biophysics, Voice Research Lab
„Assessment of vocal fold vibration with videokymography
and related techniques“

10.00-10.30 Coffee break

Chaired by: **prof. RNDr. Jitka Ulrichová, CSc.**

10.30-10.45 Mgr. Filip Dyčka, Ph.D., Faculty of Science,
Department of Biochemistry
„Evaluation of enzyme specificity by mass spectrometry“

10.45-11.00 Nuria De Diego, Ph.D., Faculty of Science,
Department of Chemical Biology and Genetics, CRH
„Hormone signalling in plant response“

11.00-11.15 Nicole Gunter, Ph.D., Faculty of Science,
Department of Zoology
„Understanding molecular relationships of beetles“

11.15-11.30 RNDr. Peter Illés, Ph.D., Faculty of Science,
Department of Cell Biology and Genetics
„Construction of Human Luciferase Gene Reporter Cell Line for
Assessment of Thyroid Receptor Activation“

11.30-11.45 RNDr. Lenka Dzurová, Ph.D., Faculty of Science,
Department of Molecular Biology, CRH
„Towards protein crystallization“

11.45-12.00 RNDr. Jana Gáliková, Ph.D., Faculty of Science,
Department of Inorganic Chemistry, RCPTM
„Copper(II) and zinc(II) complexes of biologically relevant 9-
deazahypoxanthine derivatives“

12.00-13.00 Lunch



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pro konkurenceschopnost

INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Chaired by: **prof. Ing. Miroslav Strnad, CSC.,DSc.**

13.00-13.15 Mgr. Andreea-Maria Iordache, Ph.D., Faculty of Science, Department of Analytical Chemistry, RCPTM
„Desorption nanoelectrospray – influence of surface wetting on desorbed ion intensity”

13.15-13.30 Carmen del Cacho, Ph.D., Faculty of Science, Department of Analytical Chemistry
„Characterization of magnetic nanoparticles by capillary electrophoresis”

13.30-13.45 Jason A. Perman, Ph.D., Faculty of Science, Department of Physical Chemistry
„Pillaring Graphene and Graphene Oxides”

13.45-14.00 Kasibhatta Kumara Ramanatha Datta, Ph.D., Faculty of Science, Department of Physical Chemistry
„Graphene Hybrids”

14.00-14.15 Mgr. Radina Kralchevska, Ph.D., Faculty of science, Department of Physical Chemistry, RCPTM
„Application of high valent iron materials for water treatment”

14.15-14.30 Ing. Vadim Evseev, Ph.D., Faculty of Science, Department of Optics
„The Development of Spectropolarimeter for Characterization of Polarizing Elements in a Wide Spectral Range”

14.30-15.00 Coffee break

Chaired by: **prof. RNDr. Tomáš Opatrný, Dr.**

15.00-15.15 Michal Sedlák, PhD., Faculty of Science, Department of Optics
„Characterization and discrimination among quantum optics devices”



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15.15-15.30 Mgr. Alexander Shurupov, Ph.D., Faculty of Science,
Department of Optics

„Experimental research in quantum information processing
based on quantum optics“

15.30-15.45 Kimin Park, Ph.D., Faculty of Science, Department of Optics

„Arbitrary quantum operations induced by single photons“

17.00

Take together party

6th Floor of Natural Sciences Faculty of Palacky
University in Olomouc, 12 17th Listopadu, Olomouc



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

January 23, 2014

Humanities and Applied Sciences

8.30–9.00 Registration

Chaired by: **doc. Mgr. Jiří Špička, Ph.D.**

9.00-9.15 Mgr. Martina Benešová, Ph.D., Philosophical Faculty,
Department of General Linguistics

„The Menzerath-Altmann law under the magnifying glass“

9.15-9.30 Mgr. Lukáš Motyčka, Ph.D., Philosophical Faculty,
Department of German Studies

„The research of German Moravian literature at Palacký
University Olomouc“

9.30-9.45 Mgr. Mirna Šolić, Dr., Faculty of Philosophy, Czech Language
and Literature

„Postdoctoral Research Project „The Narrative Construction of
Space: Targets and Objectives“

9.45-10.00 PhDr. Martina Číhalová, Ph.D., Philosophical faculty,
Department of Philosophy

„Natural Language Analysis via TIL“

10.00-10.45 Coffee break

Chaired by: **doc. PhDr. Vlastimil Fiala, CSc.**
doc. Mgr. Kateřina Vitásková, Ph.D.

10.45-11.00 PhDr. Daniel Dostál, Ph.D., Philosophical faculty,
Department of Psychology

„Autistic traits and scientific interests: a general review“



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- 11.00-11.15** Mgr. Eva Lebedová, Ph.D., Philosophical Faculty,
Department of Politics and European Studies
„Voter polarization in the Czech Republic“
- 11.15-11.30** Mgr. Petr Lyko, Ph.D., Philosophical faculty,
Department of musicology
„The research of musical culture in Krnov in the 1st half of the
20th century“
- 11.30-11.45** JUDr. Olga Pouperová, , Ph.D., Faculty of Law,
Department of Administrative Law and Administrative Science
„An ideal organizational arrangement of a broadcasting
regulatory authority“
- 11.45-12.00** JUDr. Ondřej Šmíd, Ph.D., Faculty of Law,
Department of Civil and Labour Law
„Evaluation of the current activities of a post-doctor in the
period from 12/2012 – 12/2013“
- 12.00-13.00** Lunch
- Chaired by: **doc. Mgr. Martin Modrianský, Ph.D.**
- 13.00-13.15** Mgr. Jitka Šíroková Ph.D., Faculty of Medicine and Dentistry,
Laboratory for Inherited Metabolic Disorders and Metabolomic
Group
„Development of methods for metabolite assessment
in biological samples for diagnosis of diseases and metabolic
disorders“
- 13.15-13.30** Mgr. Barbora Lišková, Ph.D., Faculty of Medicine
and Dentistry, Department of Pharmacology
„Study of cytochrome P450 at the Department
of Pharmacology“



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- 13.30-13.45** Mgr. Ermin Schadich, Ph.D., Faculty of Medicine and Dentistry, Institute of Molecular and Translational Medicine
„Identification of novel drugs against tropical infectious diseases and cancer“
- 13.45-14.00** Pharm.Dr. Lucie Stejskalová, Ph.D., Faculty of Medicine and Dentistry, Institute of Molecular and Translational Medicine, Department of Pharmacology and Toxicology
„ADME methods and other methods for studying the drug distribution in organism“
- 14.00-14.15** RNDr. Marika Havlíková, Ph.D., Faculty of Medicine and Dentistry, Institute of Molecular and Translational Medicine, Department of Medical Chemistry and Biochemistry
„Organotypic cultures of HepG2 cells for in vitro toxicity studies“
- 14.15-14.30** Mgr. Ján Gurský, Ph.D., Faculty of Medicine and Dentistry, Institute of Molecular and Translational Medicine
„Inhibition of DNA Damage Response Signaling in Cancer Therapy“
- 14.30-15.00** Coffee break
- Chaired by: **doc. Mgr. Martin Modrianský, Ph.D.**
Mgr. František Chmelík, Ph.D.
- 15.00-15.15** MUDr. Josef Srovnal, Ph.D., Faculty of Medicine and Dentistry, Institute of Molecular and Translational Medicine
„New genomic technologies in prediction of therapeutic response in leukemic patients“
- 15.15-15.30** Lakshman Varanasi, Ph.D., Faculty of Medicine and Dentistry, Laboratory of Experiment Medicine (IMTM)



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- 15.30-15.45** „Development of Serum biomarkers of Colorectal Cancer“
 Mgr. Svatopluk Binder, Ph.D., Faculty of Medicine and Dentistry,
 Department of Medical Biophysics
 „Photodynamic therapy: alternative approach to tumour
 treatment“
- 15.45-16.00** Mgr. Ferdinand Salonna, Ph.D., Faculty of Physical Culture,
 Center for Kinanthropology Research
 „Adolescents walking and physical activity in varying home
 and school environment“
- 16.00-16.15** Mgr. Zuzana Kováčiková, PhD., Faculty of Physical Culture,
 Department of Natural Sciences in Kinanthropology
 „The balance assessment under various conditions
 in amputees“
- 16.15-16.30** Mgr. Kateřina Neumannová, Ph.D., Faculty of Physical
 Culture, Department of Natural Sciences in Kinanthropology
 „Walking, balance and increased risk of falls related to COPD“
- 16.30-16.45** Mgr. Adrián Agricola, Ph.D., Faculty of Physical Culture,
 Department of Natural Sciences in Kinanthropology
 “Visual and kinesthetic perception in the control of gait
 pattern in children“

The conference is held within the project POST-UP, reg. No. CZ.1.07/2.3.00/30.0004



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