



Program

Joint Retreat 2019

25–26 June 2019

Kouty, Czech Republic

Joint Retreat 2019 – Program

Tuesday, 25 June 2019

From To Duration

| | | | |
|------|-------|------|---------------------------------|
| 7:30 | 9:30 | 2:00 | Departure from Brno |
| 9:30 | 10:30 | 1:00 | Registration and welcome coffee |

Session 1 (chairs: Barbora Peltanová, Cosimo Lobello)

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|-------|-------|------|---|
| 10:30 | 11:00 | 0:30 | Welcome address (Markus Dettenhoffer & others) |
| 11:00 | 11:30 | 0:30 | Invited: <i>Lucy Vojtová</i> A New Approach in the Treatment of Injured Spine Using Osteoinductive Resorbable Hybrid Polymer/Ceramic Biomaterials: Preclinical Study |
| 11:30 | 11:40 | 0:10 | T17: <i>Eva Šafaříková</i> Electrostimulation of Murine Embryonic Stem Cells Enhanced Cardiomyogenesis |
| 11:40 | 11:50 | 0:10 | T27: <i>Kateřina Polášková</i> Enhancement of Polypropylene–epoxy glue Adhesion by Thin Plasma Polymer Films Deposited in Gliding Arc Discharge with Cross Flow Gas Inlets |
| 11:50 | 12:00 | 0:10 | To8: <i>Dominik Hřebík</i> Cryo-EM Structure of Phage P68: From Head to Tail |
| 12:00 | 12:10 | 0:10 | T24: <i>Jaroslav Maniš</i> Two-dimensional GaN Grown on Si(111)7x7 with Assisted Hyperthermal Nitrogen N ₂ ⁺ ions at Low Temperature |
| 12:10 | 12:20 | 0:10 | To1: <i>Marek Adamus</i> The Architecture of Human SMC _{5/6} Complex: Downfall of the Guardian |
| 12:20 | 12:30 | 0:10 | T11: <i>Zuzana Loubalová</i> The Role of Terminal Transferase PAPD7 |
| 12:45 | 14:15 | 1:30 | Lunch |

Session 2 (chairs: Táňa Macháčková, Petr Daněk)

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|-------|-------|------|---|
| 14:15 | 14:45 | 0:30 | Invited: <i>Dominik Filipp</i> How the Transcriptional Regulator Aire Keeps Autoimmunity at Bay |
| 14:45 | 14:55 | 0:10 | T19: <i>Petr Taus</i> Identification of Novel Chronic Lymphocytic Leukemia Subtypes Using Pathway Mutation Scores and Machine Learning |
| 14:55 | 15:05 | 0:10 | To3: <i>Andrea Cumpelik</i> Cocaine Place Conditioning Strengthens Location-Specific Hippocampal Coupling to the Nucleus Accumbens |
| 15:05 | 15:15 | 0:10 | T20: <i>Markéta Tesařová</i> Application of Industrial X-ray Computed Tomography for Muscle-Skeletal Imaging at Vertebrates |
| 15:15 | 15:25 | 0:10 | T10: <i>Aiste Kasiliauskaite</i> A Structural Basis for the Cross-Talk Between Histones and RNA Polymerase II |
| 15:25 | 15:35 | 0:10 | T16: <i>Eliška Svobodová</i> Highly Active Dicer Improves Antiviral Immune Response in Mice |



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| 15:35 | 15:45 | 0:10 | <i>Sponsor presentation: Measurement Technic – Moravia</i> |
| 16:00 | 17:00 | 1:00 | <i>Coffee break</i> |

Session 3 (chairs: Victoria Pokusaeva, Jan Poduška)

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|-------|---------------|------|---|
| 17:00 | 17:30 | 0:30 | Invited: <i>Chris Wojtan</i> How to Make a Big Splash: Physics Simulation for Computer Animation |
| 17:30 | 17:40 | 0:10 | T22: <i>Jakub Holzer</i> Slip Activity in High-Purity Chromium Single Crystals Compressed at 77 K |
| 17:40 | 17:50 | 0:10 | T14: <i>Markéta Nováková</i> Structural Insight into the Transcriptional Regulation of Bacteria Using X-ray Crystallography |
| 17:50 | 18:00 | 0:10 | T15: <i>Pavčina Pokorná</i> Atomic Details on Protein-Protein Recognition – Role of Side Chain Dynamics in Binding between HP1 and H3 Proteins |
| 18:00 | 18:10 | 0:10 | T29: <i>Dario Feliciangeli</i> The Polaron Model and the Pekar Functional on Balls |
| 18:10 | 18:25 | 0:15 | <i>Address of prof. Jaroslav Koča</i> |
| 18:25 | 20:00 | 1:35 | Free time for poster preparation and fun |
| 20:00 | 21:30 | 1:30 | <i>Banquet dinner</i> |
| 21:00 | not specified | | Poster session |

Wednesday, 26 June 2019

From **To** **Duration**

Session 4 (chairs: Markéta Nováková, Anzer Khan)

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| 7:30 | 9:00 | 1:30 | <i>Breakfast</i> |
| 9:00 | 9:45 | 0:45 | Invited: <i>Martin Fusek</i> Translation of Results of Basic Research for Human Use |
| 9:45 | 9:55 | 0:10 | T23: <i>Tereza Kuběnová</i> Synthesis and Characterization of Magnetic Iron Oxide Nanoparticles for Bio-applications |
| 9:55 | 10:05 | 0:10 | T12: <i>Klaudia Mráziková</i> Lone Pair- π and Anion- π Interactions as Stabilization Factors of RNA Tetraloops |
| 10:05 | 10:15 | 0:10 | To4: <i>Veronika Fáberová</i> Function of Phosphatidylinositol 4-phosphate in the Cell Nucleus |
| 10:15 | 10:25 | 0:10 | T25: <i>Jana Midlíková</i> Development of the FTIR Spectroscopy in High Magnetic Fields |
| 10:25 | 10:35 | 0:10 | T18: <i>Hassan Tarabai</i> First Report of Plasmid Mediated Colistin Resistance from Wildlife in Russia |

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| 10:35 | 10:45 | 0:10 | T26: Miroslav Michlíček Plasma Polymerization on Non-planar and Porous Substrates: Sticking Probability and Deposition Penetration Depth |
| 10:45 | 11:45 | 1:00 | <i>Coffee break</i> |

Session 5 (chairs: Veronika Kozlová, Erik Képeš)

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|-------|-------|------|--|
| 11:45 | 12:15 | 0:30 | Invited: Monika Dolejská Antibiotic Resistance and One Health Concept: Flow and Fate of Multi-Drug Resistant Bacteria in the Human-Influenced Environment |
| 12:15 | 12:25 | 0:10 | T09: Aliaksei Charesheu Structural Bioinformatics of Nicotinic Acetylcholine Receptors: NACHRDB |
| 12:25 | 12:35 | 0:10 | T06: Martin Hadzima Development of Synthetic Antibody Mimetics Targeting Opioid Receptors |
| 12:35 | 12:45 | 0:10 | T30: Tomas Skrivan Waves in Computer Graphics |
| 12:45 | 12:55 | 0:10 | T02: Can Balaban Deciphering the Role of an F-Actin Regulatory Protein MPRIP in Nuclear Architecture |
| 12:55 | 13:05 | 0:10 | T28: Xixia Zhang The Growth, Phase Transition and Terahertz Properties of MoTe ₂ crystals |
| 13:05 | 13:15 | 0:10 | T13: Michele Nardin How to Learn a Rule (through Prefrontal-Hippocampal Interactions) |
| 13:15 | 13:25 | 0:10 | <i>Sponsor presentation: BD</i> |
| 13:25 | 15:00 | 1:35 | <i>Lunch</i> |
| 15:00 | 16:00 | 1:00 | <i>Networking break</i> |

Session 6 (chairs: Markéta Šámalová, Tarakaramji Moturu)

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|-------|-------|------|--|
| 16:00 | 16:30 | 0:30 | Invited: Jan Zouhar Endoplasmic Reticulum and Cellular Stress Responses in Plants |
| 16:30 | 16:40 | 0:10 | T07: Miroslav Homola Toward Structure Analysis of a Huge Algal Virus |
| 16:40 | 16:50 | 0:10 | T21: Adam Valček Incl ₁ ESBL-producing Plasmids from Escherichia Coli Obtained from Patients are Closely Related to Plasmids from E. coli of Animal Origin |
| 16:50 | 17:00 | 0:10 | T05: Ilektra-Chara Giassa HERMES – A Software Tool for Prediction and Analysis of Magnetic Field-Induced Residual Dipolar Couplings in Nucleic Acids |
| 17:00 | 17:10 | 0:10 | <i>Sponsor presentation: Thermo Fisher Scientific</i> |
| 17:10 | 17:20 | 0:10 | <i>Announcement of the awards</i> |
| 17:20 | 18:00 | 0:40 | <i>Group photo and departure</i> |