



ORGANIZERS

Faculty of Biology and Geology

Centre for Systems Biology, Biodiversity and Bioresources

Doctoral School of Integrative Biology, Doctoral School of Theoretical and Applied Geology

Academic Schools of UBB: School of Natural and Life Sciences, School of Engineering and Technology, School of health

UBB-EON-XR Center

Students for Nature Organisation (OSpN)

BIOTA - Biodiversitate, Tradiții și Actualitate

5th-6th of May 2023

| 5th of May-Schedule (location: CREIC) | | | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|--|--|---|
| 8:30-9:30 | Participants registration | | | | | | | | | | |
| 9:00-9:15 | Official conference opening | | | | | | | | | | |
| Plenary session - Chairperson Prof. dr. Manuela Banciu | | | | | | | | | | | |
| 9:15-9:45 | Effects of climate change on high mountain ecosystems: what does continuous monitoring of the vegetation tell us? - Assoc. Prof. Mihai Pușcaș | | | | | | | | | | |
| 9:45-10:15 | Thalamocortical stereotypy and heterogeneity in epilepsy - Assoc. Prof. Lőrincz L. Magor | | | | | | | | | | |
| 10:15-10:45 | Calcareous algae: small plants from the seas of the past - Acad. Ioan Bucur | | | | | | | | | | |
| 10:45-10:55 | ROMBAT presentation (gold sponsor) | | | | | | | | | | |
| COFFEE BREAK (10:55-11:15) | | | | | | | | | | | |
| Invited talks - Chairperson Assoc. Prof. Zoltán László | | | | | | | | | | | |
| 11:15-11:40 | Uncertainties about a definition – what is parasitism anyway? - Dr. Lajos Rózsa, József Garay | | | | | | | | | | |
| 11:40-12:05 | Leverage points framework for nature conservation in traditional cultural landscapes - Assoc. Prof. Tibor Hartel | | | | | | | | | | |
| 12:05-12:30 | Mycelium-based composites as potential biodegradable materials - Assist. Prof. Tiberiu Balaes, Prof. Dr. Cătălin Tănase | | | | | | | | | | |
| 12:30-12:55 | Toxicity of antimony for plants and environment - Assoc. Prof. Marek Vaculik | | | | | | | | | | |
| LUNCH BREAK (12:55-14:00) | | | | | | | | | | | |
| Scientific sessions | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Ecology, biodiversity, bioconservation - Chairperson: Prof. dr. Culiță Sirbu</th> <th>Geology - Chairperson: Assoc. Prof. Nicolae Har</th> </tr> </thead> <tbody> <tr> <td> 14:00-14:15 <i>Oak-spruce forests from the Tulgheș area (Harghita county)</i> - Adrian Oprea, Culiță Sirbu </td> <td> <i>Palaeoenvironmental conditions reconstruction of the last two millenia in NW Transylvania</i> - Agnes Ruskal, Dumitrița Tiution, Andrei Cosmin Diaconu, Andrei Panait, Ioan Tanțău </td> </tr> <tr> <td> 14:15-14:30 <i>Prevalence and distribution of the canine heartworm, <i>Dirofilaria immitis</i> in dogs from Galápagos</i> - Carla A. Culda, Nathalie G. Tejena Rodriguez, Puleo Fortunato, Georgiana Deak, Rafael M. Polit Sosa, Jaime Grijalva, Andra C. Barbu, Andrada S. Carstolovean, Romane Dionnet, Teodora Dan, Renato Leon, Lenin R. Vinuesa, Diego Pérez-Rosas, Andrei D. Mihalca </td> <td> <i>Palynological analysis of archaeological samples from the Mureș Valley</i> - Roxana Grindean, Ioan Tantau, Mariana Egri, Aurel Rustoiu </td> </tr> <tr> <td> 14:30-14:45 <i>The taxonomical consequences of morphological variation the circum-Carpathian populations of <i>Phytoecia tigrina</i> (Coleoptera: Cerambycidae)</i> - Andrew M. Zamoroka, Adrian Ruicănescu, Cosmin O. Mancu </td> <td> <i>Paleoclimatic records of the Quaternary in Sais Basin using clay mineral assemblages</i> - Ayman Agharabi, Nicolae Har, Lahcen Gourari, Lhoucine Karrat, Anasse Benslimane, Cristian Victor Mircescu </td> </tr> <tr> <td> 14:45-15:00 <i>Distribution and diversity of fishes and lampreys in Transylvania (Romania): a complete survey and suggestions of new protected areas</i> - András Attila Nagy, Nándor Erős, István Imecs, Gábor Bóné, Attila Fülöp, Péter László Pap </td> <td> <i>The Talzast volcano-plutonic complex (Middle Atlas, Morocco): Petrography and geochemistry</i> - Mali Brahim, Dahire Mohamed, Ntarmouchant Ahmed, Driouch yousef, M. Bento dos Santos Telmo, Har Nicolae, Jeddi El Mehdi, Elabouyi Mustapha, Agharabi Ayman </td> </tr> </tbody> </table> | Ecology, biodiversity, bioconservation - Chairperson: Prof. dr. Culiță Sirbu | Geology - Chairperson: Assoc. Prof. Nicolae Har | 14:00-14:15 <i>Oak-spruce forests from the Tulgheș area (Harghita county)</i> - Adrian Oprea, Culiță Sirbu | <i>Palaeoenvironmental conditions reconstruction of the last two millenia in NW Transylvania</i> - Agnes Ruskal, Dumitrița Tiution, Andrei Cosmin Diaconu, Andrei Panait, Ioan Tanțău | 14:15-14:30 <i>Prevalence and distribution of the canine heartworm, <i>Dirofilaria immitis</i> in dogs from Galápagos</i> - Carla A. Culda, Nathalie G. Tejena Rodriguez, Puleo Fortunato, Georgiana Deak, Rafael M. Polit Sosa, Jaime Grijalva, Andra C. Barbu, Andrada S. Carstolovean, Romane Dionnet, Teodora Dan, Renato Leon, Lenin R. Vinuesa, Diego Pérez-Rosas, Andrei D. Mihalca | <i>Palynological analysis of archaeological samples from the Mureș Valley</i> - Roxana Grindean, Ioan Tantau, Mariana Egri, Aurel Rustoiu | 14:30-14:45 <i>The taxonomical consequences of morphological variation the circum-Carpathian populations of <i>Phytoecia tigrina</i> (Coleoptera: Cerambycidae)</i> - Andrew M. Zamoroka, Adrian Ruicănescu, Cosmin O. Mancu | <i>Paleoclimatic records of the Quaternary in Sais Basin using clay mineral assemblages</i> - Ayman Agharabi, Nicolae Har, Lahcen Gourari, Lhoucine Karrat, Anasse Benslimane, Cristian Victor Mircescu | 14:45-15:00 <i>Distribution and diversity of fishes and lampreys in Transylvania (Romania): a complete survey and suggestions of new protected areas</i> - András Attila Nagy, Nándor Erős, István Imecs, Gábor Bóné, Attila Fülöp, Péter László Pap | <i>The Talzast volcano-plutonic complex (Middle Atlas, Morocco): Petrography and geochemistry</i> - Mali Brahim, Dahire Mohamed, Ntarmouchant Ahmed, Driouch yousef, M. Bento dos Santos Telmo, Har Nicolae, Jeddi El Mehdi, Elabouyi Mustapha, Agharabi Ayman |
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| COFFEE BREAK (15:00-15:20) | | | | | | | | | | | |

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| 15:20-15:35 | <i>The CarpaTherm soil temperature monitoring network: a unique resource for alpine ecosystem research</i> - Pavel Dan Turtureanu, Mihai Pușcaș, Tudor-Mihai Ursu, Philippe Choler | <i>Screening spontaneous native flora for phytomanagement purposes at a heavily mercury contaminated polymetallic site</i> - Emanuela D. Tiodar, Cecilia Chiriac, Filip Pošćić, Cristina L. Văcar, Zoltan R. Balazs, Cristian Coman, David C. Weindorf, Manuela Banciu, Ute Krämer, Dorina Podar |
| 15:35-15:50 | <i>The distribution of Cladonia species in Romania and their ecological preferences: an exploratory, observational analysis</i> - Florin Crisan, Dan Gafta | <i>Development of a 3D biomimetic model to unravel the intricacies of tumour microenvironment chemoresistance</i> - Giorgiana-Gabriela Negrea, Marta-Szilvia Mezaros, Stefan Dragan, Vlad-Alexandru Toma, Bogdan Dume, Valentin-Florian Rauca, Laura Patras, Emilia Licarete, Manuela Banciu, Alina Sesarman |
| 15:50-16:05 | <i>The unicorns of wild roses: do Liebelia really exist in Europe?</i> - Zoltán László, Lilla Szőcs | <i>Protective effects of chrysin in calixarene O118 (OTX008) and sulfobutylether-β-cyclodextrin (SBEβCD) nanoformulation on diabetes-associated cardiac fibrosis – in vitro and in vivo studies</i> - Anca Hermenean, Maria Consiglia Trotta, Cornel Balta, Alina Ciceu, Herman Hildegard, Caterina Lepre, Judit Váradi, Ferenc Fenyvesi, Michele D'Amico |
| 16:05-16:20 | | <i>The impact of HIF-1α knockdown on doxorubicin sensitivity in B16.F10 murine melanoma cells</i> - Bogdan Dume, Alina Sesărman, Manuela Banciu, Emilia Licărete |
| Poster session | | Poster session |
| 16:20-16:30 | <i>Whispers from the Carpathians – exploring the acoustic print of a scientific nature reserve</i> - Florina Stănescu, Ana-Maria Drăgan, Dan Coghălniceanu | <i>The Horteaga-Cajal Methods And Immunohistochemistry For Study Of The Neuroglial Cluster-Units In The Central Nervous System Of The Corvids</i> - Maria-Alexandra Nuțu, Bogdan Dume, Lucian Barbu, Ioana Roman, Vlad-Alexandru Toma |
| 16:30-16:40 | <i>TranSuMan - Advanced training on sustainable management of pastoral systems</i> - Irina Goia, Michail Vrachnakis, Pablo Vidal, Federico Maria Tardella, Yannis Kazoglou, Maria Mortan, Sara Moscatelli, Paola Scocco, Victor Sacher, Marios Trigkas, Joel Bueso, Vincențiu Veres, Alexandru Stermin, Andrea Catorci | <i>Novel strategies for diminishing the oxidative side effects of ibuprofen – a computational study</i> - Szilvia Toth, Augustin C. Moț, Anca D. Stoica |
| 16:40-16:50 | <i>Low variability in the floristic composition of Nardus stricta assemblages from two different floristic regions</i> - Mardari Constantin, Vassilev Kiril, Birsan Ciprian | <i>A technique for evaluation of the main resistance strategies to Cu, Hg, and Zn in a filamentous fungus</i> - Lorena Văcar, Karen Viacava, Adrien Mestrot, Marcel Pârnu, Dorina Podar |
| 16:50-17:00 | <i>Macromycetes assemblages in the beech forests from Eastern Romania</i> - Birsan Ciprian, Mardari Constantin, Tanase Catalin | <i>Advancing Melanoma Treatment Through 3D Models of Tumor Microenvironment</i> - Márta-Szilvia Mézáros, Giorgiana-Gabriela Negrea, Vlad-Alexandru Toma, Valentin-Florian Rauca, Emilia Licarete, Laura Pătraș, Manuela Banciu, Alina Sesarman |
| 17:00-17:10 | <i>What's on the plate of the critically endangered fish Romanichthys valsanicola (asprete)?</i> - Karina P. Battes, Anca-Mihaela Șuteu, István Falka, Mircea Mărginean, Alex Găvan, Mirela Cîmpean | <i>The in vitro anti-tumor effects of anthocyanin extracts from aronia, red grapes and red cabbage on colorectal cancer cells, before and after a simulated gastrointestinal digestion</i> - Chilian Simona-Bianca, Drețcanu Georgiana, Diaconeasa Zorița, Cruceriu Daniel |
| 17:10-17:20 | <i>Structural and morphological characterization of two Allium species dependent on their phytochemical profile</i> - Ioana Andreea Barbu, Alexandra Ciorîță, Rahela Carpa, Lucian Barbu, Cristina Mircea, Marcel Pârnu, Anca Butiuc-Keul, Augustin Moț | <i>Peroxisomes identification in melanoma tumor cells – a modified protocol for electron and light microscopy</i> - Vlad-Alexandru Toma, Alina-Viorica Sesărman, Alexandra Ciorîță, Lucian Barbu, Septimiu Tripon, Manuela Banciu |
| 17:20-17:30 | <i>Development and characterization of the first set of microsatellite markers for Carex curvula</i> - Zoltán Robert Balázs, Mihai Pușcaș, Dana Șuteu, Ioan Băcilă, Mihai Miclăuș, Philippe Choler | <i>The potential of curcumin in reversing irinotecan-acquired resistance in colorectal cancer cells</i> - Ivăncuță Andrei, Baldașici Oana, Gavrilaş Laura, Cruceriu Daniel |
| 17:30-17:40 | <i>Genome-inferred metabolic reconstruction of Patescibacteria from two hypersaline meromictic lakes from Romania</i> - Sturzu-Cosma Simina, Gridan Ionuț-Mădălin, Banciu Horia Leonard | <i>The effect of Berberis vulgaris, Mahonia aquifolium and Phellodendron amurense plant extracts over cell viability in different types of tumor cell lines</i> - Sabina Emanuela Pojar, Alexandra Ciorîță, Marcel Pârnu, Augustin Cătălin Moț |
| FESTIVE DINNER 19:30 (Piramida restaurant) | | |
| 6th of May - TRIP TO SALINA TURDA - SCHEDULE TO BE ANNOUNCED | | |