

**Advanced Communication in Science 2024**  
**A Short Introduction of Topics and Speakers**

**29th of April, Monday**

**Máté Varga, PhD., Dr. Habil.** (Eötvös Loránd University, Budapest, Hungary):  
**Open Science and Open Communication in Science**

**Essence of presentation:**

- Open Science practices;
- Data sharing;
- Science communication.

**About the lecturer:** Dr. Varga is a trained developmental geneticist, using zebrafish and paradise fish in his research, with a focus on modeling human diseases. He is an Associate Professor and the PI of the Fish Genetics Research Group at the Department of Genetics of Eötvös Loránd University. He has been an active science communicator for almost two decades, and contributed to EU projects that aim to foster the connection between scientists and the representatives of the media.

**Judit Padisák, DSc., MHAS** (University of Pannonia, Veszprém, Hungary):  
**Ethics in Science**

**Essence of presentation:**

- What is ethics?
- Culture, ethics, law? What are the specific indicators of these three?
- Ethics in focus: how to avoid “complications.

**About the lecturer:** Dr. Padisák graduated as a biologist at the Eötvös Loránd University (Budapest). Since 2002 she is working as a Full Professor at the University of Pannonia (Veszprém) where she founded the Department of Limnology. Her basic research field is limnoecology. She has research experience with various freshwater and hypo-mesohaline aquatic ecosystems in Hungary, as well as lakes and reservoirs in Germany, Sweden, Croatia, China and Brazil. Besides teaching 'Science theory and science communication' at her home university she conducted seminars on ethics in science linked to various international conferences.

**Katalin Solymosi, PhD., Dr. Habil.** (Eötvös Loránd University, Budapest, Hungary):  
**Diversity of Research Competencies**

**Essence of presentation:**

- Diversity;
- Equity;
- Inclusion.

**About the lecturer:** Dr. Solymosi is a plant biologist, working as an Assistant Professor at Eötvös Loránd University. She has been teaching plant biology-related as well as research methodology courses since 2001. For the last six years, she has been involved in science policy at the national and international levels: she was founding member, previous co-chair of the Hungarian Young Academy, and she is the chair of the Young Academy of Europe. At the European level, they see trends of improving the recognition and rewarding of diverse researcher competences beyond scientific publications, and changes towards responsible use of qualitative and quantitative scientometrics. She strongly believes that these measures will lead to a much more viable, diverse, equitable and inclusive academic landscape, where all talents can thrive.

**Ferenc Mueller, PhD.** (University of Birmingham, Birmingham, United Kingdom)  
**Conferences and Workshops**

**Essence of presentation:**

- Choice and prioritisation of conferences;
- Communication strategy for your research at a scientific meeting;
- Communication strategy for information exchange at a scientific meeting.

**About the speaker:** Ferenc Mueller is a developmental geneticist whose main interest is transcription regulation during vertebrate development. He has developed transgenesis models, applies *in vivo* imaging technologies and genomics tools to study transcription initiation mechanisms during genome activation and differentiation. He has over 25 years of experience with research communication at scientific events from local workshops to large international conferences in developmental genetics and transcription biology. He has organised EMBO and FEBS symposia, was local organiser for the 10th International Zebrafish Congress and he is a regular session chair, workshop organiser and invited speaker at zebrafish genetics meetings.

**6th of May, Monday**

**Szabolcs Nagy, DSc.** (Hungarian University of Agriculture and Life Sciences, Keszthely, Hungary):

**Scientific Self-management**

**Essence of presentation:**

- Scientific self-management;
- Time management;
- Data management;

**About the speaker:** Professor Nagy has spent more than 25 years focusing on the application of automatized cytomic tools in the quality control processes of assisted reproductive technologies in the domestic animal industry. He is a founding member of the Association of Applied Animal Andrology (AAAA), editorial board member of Theriogenology, Reproduction of Domestic Animals and the Czech Journal of Animal Science. Besides science, he likes to emphasize the importance of hobbies, especially music playing, for maintaining brain health.

**Ildikó Szeverényi, Dr. Univ.** (Hungarian University of Agriculture and Life Sciences, Keszthely, Hungary):

**Illustrations: Papers, Posters and Lectures**

**Essence of presentation:**

- Visual information;
- Perception;
- Harmony.

**About the speaker:** Over her career of >30 years, Dr. Szeverényi has studied three different models (*E. coli*, rice and zebrafish) as well as humans. She has extensive experience with working in multicultural environment and mentored/supervised more than hundred students. She has a keen eye for harmonizing visual images with their content and prospective readers. She has co-authored papers for several reputable journals, including Nature Genetics, Cell, Human Mutation and Plant Journal, and contributed heavily to the creation of several figures of the research articles published there.

**László Orbán, PhD.** (Hungarian University of Agriculture and Life Sciences, Keszthely, Hungary):

**Publishers and Journals: Where (not) to Publish**

**Essence of presentation:**

- Open access;
- Peer review in crisis;
- A tsunami of special issues.

**About the speaker:** Dr. Orbán has studied fish reproduction and physiology using molecular and genomic approaches throughout his whole career. He has worked in

South-East Asia for nearly two decades, where he led a food fish selection program. He has published over 110 peer-reviewed research articles (h-index: 44), supervised students at several levels and regularly lectured at universities. He has reviewed extensively for a number of international scientific journals and has been an Academic Editor or a member of the Editorial Advisory Board for four of them.

**Jeffrey Griffiths, PhD.** (Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary)

### **Scientific Communication: The North-American View**

#### **Essence of presentation:**

- Expectations from a post-doc in the USA
- Tips and advice on applying for a post-doc position;
- Interviewing tips and techniques.

**About the speaker:** Dr. Griffiths is an Associate Professor at the Department of Environmental Toxicology Institute of Aquaculture and Environmental Safety (MATE, Szent István Campus). Originally, he came from the United States where he was an Associate Professor and Department Chair of the Biology Department at SNU in Oklahoma, teaching courses in environmental health, molecular biology and human physiology, among others. Earlier, he had two post-doc experiences after his graduate school work in the United States, one with the US EPA and another with a medical research institute. While at SNU, part of his role was to prepare students for entry to graduate school and post-docs through seminars and interviewing techniques workshops. His area of scientific research is focused on determining the toxicological effects of PFAS on zebrafish utilizing analytical and molecular techniques.

**13th of May, Monday**

**Ákos Horváth, DSc.** (Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary)

### **Writing and Submitting Manuscripts**

#### **Essence of presentation:**

- The paper is for the reader, not for the writer.
- Tell a story.
- Start the abstract with what you did, not with the gaps in knowledge.

**About the speaker:** The primary research interest of Professor Horváth is the cryopreservation of fish germ cells, including sperm, germline stem cells, testicular and ovarian tissue as well as shellfish larvae. He has developed cryopreservation protocols for the sperm of numerous fish species, including cyprinids, percids, salmonids, catfishes and sturgeons. He has authored and co-authored more than 100 scientific papers and currently works as a professor of aquaculture at MATE.

**László Orbán, PhD.** (Hungarian University of Agriculture and Life Sciences, Keszthely, Hungary)

### **Revision and Resubmission of Manuscripts; Appeals**

#### **Essence of presentation:**

- Peer-review.
- Editorial correspondence.
- Empathy.

**About the speaker:** see above

**Mihály Pósfai, DSc., MHAS** (University of Pannonia, Veszprém, Hungary)

### **Collaborations and Networking**

#### **Essence of presentation:**

- Types and significance of networks;
- How to cope with successes and failures;
- Rewards of collaborations.

**About the lecturer:** He was trained as a geologist, turned into an electron microscopist, works on environmental geochemistry problems. Lived in the US and UK, and became a professor at the University of Pannonia, Veszprém, where he teaches mineralogy, geochemistry, microscopy techniques, and established an electron microscopy laboratory. He served two terms in the presidium of the Hungarian Academy of Sciences, chaired the regional centre of HAS in Veszprém, and was a secretary of the European Association of Geochemistry.

**Beáta Király, PhD.** (HUN-REN Institute for Nuclear Research, Debrecen, Hungary)  
**Outreach**

**Essence of presentation:**

- Outreach;
- Dissemination;
- Communication with the public

**About the lecturer:** Dr. Király graduated as a mathematics and physics teacher, and received a PhD degree in nuclear physics. Her first and so far the only workplace is the Institute for Nuclear Research (ATOMKI). In addition to her research activities, she has been working as a scientific secretary since 2011. She is the main organizer of outreach programs and research seminars, and also creates programs for visitor groups. She was the manager of ATOMKI's dissemination project called Understandable and Available Physics in 2013-15. She regularly trains young colleagues on how to talk to the audience and prepares them for demonstrations carried out with liquid nitrogen.