

ACE² EUROPEAN UNIVERSITY



Applied Connected Entrepreneurial & Engaged



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Virtual Coffee

Pitch Session 1 for ACE²-EU Researchers

What is it?

A 2-minute pitch session where ACE²-EU researchers present their research, connect with peers, and explore collaboration opportunities.

Session Details:

- Duration:** 30 minutes per session
- Goal:** Facilitate networking, discover common research interests, and identify potential project partners.

Let's spark new collaborations!

BIO: Specialist in the field of environmental health and university professor at the Department of Environmental Toxicology of the Medical University of Gdańsk. I am the head of the environmental health studies program, the supervisor of the 1st year of studies and the Students' Scientific Circle of Environmental Health and Epidemiology. By education, I am a habilitated doctor in the field of medical and health sciences and a doctor of chemistry. In my scientific work, I deal with food toxicology, ecotoxicology and the impact of changes in the environment on human health. I pay particular attention to health risks resulting from exposure to pesticides and endocrine active substances. I actively participate in activities for public space, including the adaptation of cities to climate change and improving the quality of life of residents. I am a member of the Polish Society of Environmental Medicine, the Polish Chemical Society and the Polish Society of Toxicology.

Key words: environmental health, health risk assessment, toxicology, emerging pollutants

**Dr. Habil. Eng. Maciej Tankiewicz,
Assoc. Prof.**

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Maciej Tankiewicz

PhD, DSc Eng., Associate Professor

Environmental health specialist



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Research activities and interests:

- assessment of human exposure to xenobiotics using modern analytical tools
- the impact of environmental factors on health and quality of life
- health and environmental risk assessment
- food toxicology

Selected publications (2022-2024):

- Long-Term Polyethylene (Bio) Degradation in Landfill: Environmental and Human Health Implications from Comprehensive Analysis. *Molecules*, 2024, 29(11), 2499.
- Intensive poultry farming: A review of the impact on the environment and human health. *Science of the Total Environment*, 2023, 858: 160014.
- Assessment of apple peel barrier effect to pesticide permeation using Franz diffusion cell and QuEChERS method coupled with GC-MS/MS. *Foods*, 2023, 12.17: 3220.
- The Impact of Soil and Water Pollutants Released from Poultry Farming on the Growth and Development of Two Plant Species. *Agriculture*, 2023, 14.1: 87.
- Improvement of the QuEChERS method coupled with GC-MS/MS for the determination of pesticide residues in fresh fruit and vegetables. *Microchemical Journal*, 181, 107794.



Secretary of the Management Board of the Polish Society of Toxicology

Member of the Polish Society of Environmental Medicine, Polish Chemical Society, Polish Society of Toxicology and the Gdańsk Scientific Society

Member of the MUG research team (IDUB POB 3)

Head of the environmental health studies

Recently implemented project:

Comparative assessment of the fruit and vegetable peel barrier degree for currently used pesticides - estimation of exposure to consumption

Funding: National Science Centre in Poland www.gumed.edu.pl (SONATA programme)



Lietuvos
inžinerijos
kolegija

**Dr. Rita Verbylaitė, Associate
professor**

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BIO: I am a researcher at Lithuanian Research Centre for Agriculture and Forestry as well as associate professor at LIK HEU. I am plant conservation specialist. My field of research encompass plant genetic diversity, genetic monitoring of forest trees, tree breeding and plant conservation.

Key words: Plant genetic diversity, Monitoring, Nature conservation, Forestry, Forest tree breeding

BIO: high altitude and expedition medicine, hypoxia, hypothermia, extreme weather conditions, survival

Key words: My main area of interest is the impact of extreme environmental conditions on the human body. I specialize in high-altitude and expedition medicine.

Dr. Habil. Robert Szymczak

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Research Gate

https://www.researchgate.net/profile/Robert-Szymczak-3?ev=hdr_xprf

Dr. Habil. Krzesimir Ciura, Pharm.D.

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BIO: My scientific interests lie in applying computational and analytical approaches to characterize the biophysicochemical properties of xenobiotics. I am particularly focused on the concept of biomimetic chromatography and its application in predicting complex pharmacokinetic and toxicokinetic properties, enhanced by machine learning techniques. Additionally, my current work explores data-driven machine learning methods to predict the behavior and interactions of nanomaterials with biointerfaces in the context of toxicological and pharmaceutical applications.

Key words: biomimetic chromatography, machine learning, data analysis, pharmacokinetics prediction

BIO: Christine Pichler, Gabriele Hagendorfer-Jauk, Manuela Perchtaler, Johanna Breuer and Bianca Lidolt-Petscher from the Department for Intergenerational Solidarity, Activity and Civil Society (ISAC) of the Institute for Applied Research on Ageing (IARA) are Key, Senior and Junior Researchers in the field of interdisciplinary, transdisciplinary and participatory ageing research with various disciplinary backgrounds in social sciences, health sciences, care sciences, psychology, social work, disability and diversity studies etc.

ISAC - Intergenerational Solidarity, Activity and Civil Society - IARA:
<https://www.iara.ac.at/en/departments-en/isac-en/>

Key words: ageing research, living environments of older people, social inclusion, empowerment, community care and civil engagement

**Institute for Applied Research on Ageing
(IARA)**

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(ISAC)**

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Prof. Michał Brzeziński

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BIO: A specialist in pediatrics and pediatric gastroenterology with extensive experience in developing and implementing public health programs. His research and initiatives, such as the “6-10-14 for Health” project, have contributed significantly to the prevention and treatment of childhood obesity. Professor Brzeziński is the author of over 60 scientific publications in the fields of pediatrics, obesity, and public health.

Key words: pediatrics, pediatric gastroenterology, obesity, public health, inflammatory bowel disease



BIO: Günther Grabner is an MR physicist and an expert in image processing and ultrahigh-field MRI. He is currently leading an FWF Doc.funds.connect grant that has enabled seven PhD positions and established a joint PhD program between CUAS and Medical University of Vienna (<https://www.fwf.ac.at/en/research-radar/10.55776/DFH50>).

Key words: Magnetic Resonance Imaging, Image Processing, Combination of MRI and Histology

FH-Prof. Priv. Doz. Dr. Günther Grabner

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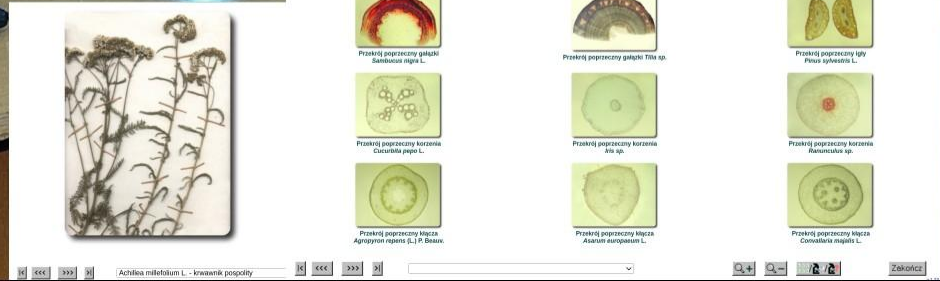
www.linkedin.com/in/gunther-grabner-b5a0a1194

Piotr Madanecki, Pharm.D.

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BIO: I am looking for new exciting teaching materials and I am researching the usefulness of technical devices with particular consideration of their costs in the field of science and popularization of biological knowledge with particular consideration of botany. I am creating scientific and didactic software in the field of broadly understood biology. I am interested in growing exotic plants in artificial conditions - I am a curator of exotic plants in the Gdańsk Palm House.

Key words: didactics, innovations in the teaching of botany and biology, didactic and scientific software creation, cultivation of exotic plants in artificial conditions, obtaining plant material for research using biological databases



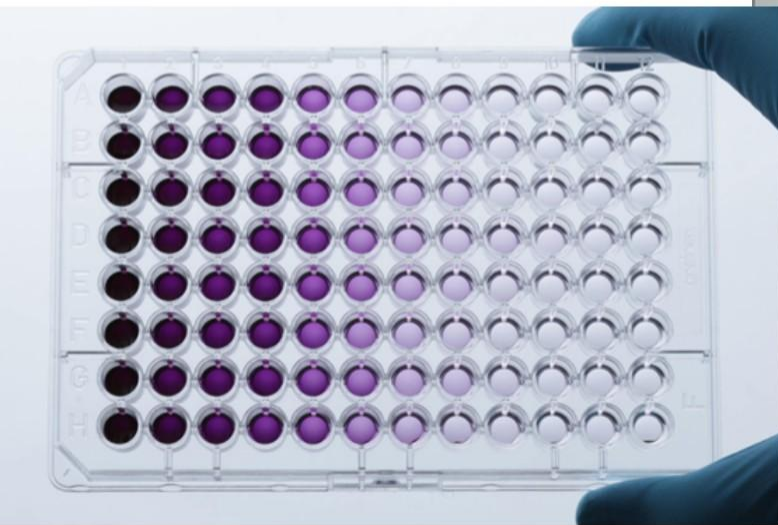
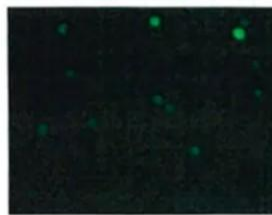
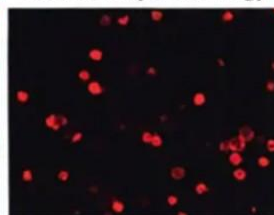
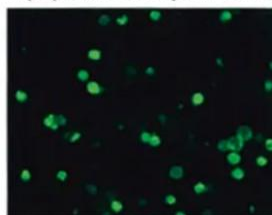


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Apoptotic cells (Ann-FITC)

Dead Cells (PI Staining)



BIO: Ph.D. Vilda Grybauskienė is an associate professor at the Lietuvos Inžinerijos Kolegija | Higher Education Institution (LIK). Vilda Grybauskienė holds a doctoral degree from the Lithuanian University of Agriculture, where she researched Forest nursery irrigation scheduling. The main scientific research areas are sustainable development, SDG, water and wastewater management, waste management, and environmental impact assessment.

Key words: Sustainable Water Management to Prevent Scarcity: Tools and Strategies

dr. Vilda Grybauskienė

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Dominika Marszk

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BIO: My scientific interests focus on the treatment and pathogenesis of inflammatory bowel disease (IBD) in children. In 2024, I had the opportunity to present a poster on the use of high-dose methylprednisolone for inducing remission in pediatric acute severe ulcerative colitis at the ECCO Congress. Recently, together with Professor Brzeziński, we have assembled a research team to begin a study on the impact of microplastics on IBD in children.

Key words: pediatrics, inflammatory bowel disease (IBD), pediatric gastroenterology, microplastics, environmental factors



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BIO: Beata Bachrata is professor for Medical Engineering and Analytics at the CUAS. She specializes in Magnetic Resonance Imaging, including sequence programming, phase imaging, and image processing. Currently, she is working on development of novel acquisition and processing methods for fetal imaging.

Key words: Magnetic resonance imaging, fetal imaging, image processing

**Beata Bachrata, PhD Professor for
Medical Engineering & Analytics at FH**

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Hubert Cielica

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BIO: My name is Hubert Cielica and I am a 3rd year student at Medical University of Gdańsk. I am totally drawn to the field of Parasitology and Tropical Medicine, my passion led me to organize the Research Club at our University. Because of my traveling passion, I am also a member of the International Federation of Medical Students Associations (IFMSA) in Poland, where I am volunteering in the Professional Exchange Program, helping foreign students and preparing clinical internships in our hospital.

Key words: Infectious, Tropical, Parasitology, Cardiology, Exchanges



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