



The 10th International Conference on Agricultural and Biological Sciences (ABS 2024) & (ABB 2024)



The 7th International Conference on Applied Biochemistry and Biotechnology

Conference Program

July 29 - August 1, 2024

Győr, Hungary



**SZÉCHENYI
EGYETEM**
UNIVERSITY OF GYŐR

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ABS 2025 Invitation Letter

To:
Academicians and Scholars from related field,

On behalf of the organizing committee of 11th International Conference on Agricultural and Biological Sciences (ABS 2025), to be held from July 21st-24th, in Matsue, Japan, we cordially invite you to participate ABS 2025.

As an annual gathering, ABS provide an extensive platform for scientists, researchers and scholars to present their research results and newest findings in all fields of agricultural and biological sciences, discuss the practical challenges encountered recommend better solutions agricultural development. Conference program will include keynote speeches, invited and oral presentations as well as poster presentations.

Location and Important Dates:

Conference Venue: Kunibiki Messe (Shimane Prefectural Convention Center), Matsue, Japan

Address: 1-2-1 Gakuen Minami, Matsue City, Shimane, JAPAN 690-0826

Important Dates:

Conference Date: July 21st-24th, 2025

Submission Deadline (First Round): November 30th, 2024

Matsue is the capital city of Shimane Prefecture, in Southwest Japan, known as the "City of Water". As an International City of Culture and Tourism, Matsue offers great sightseeing opportunities and welcomes international tourists. Matsue and its surrounding areas are rich in cultural assets and historical sites, and many of Japan's most ancient legends are set in the area. ABS 2025 will be held in this very famous city, and your kindly participation will be greatly welcome.

We are looking forward to meeting you again in Matsue, Japan in 2025!

Lydia Shi

Lydia Shi
Conference Secretary
ABS Organizing Committee

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Part I Conference Schedule

Monday, July 29th, 2024

14:00-20:00	Offline Registration <i>Lobby of Management Campus, Széchenyi István University (SZE)</i>
16:00-17:00	Online MS Teams Testing http://www.academicconf.com/teamslink?confname=ABS2024

Notices for offline participants:

1. Please show us the acceptance letter or paper ID for registration;
2. Please pick up all the conference materials at the registration desk (Name Card, Conference Program, Meals Tickets and Tour Ticket etc.)

Notices for online participants:

1. Online Conference room is <http://www.academicconf.com/teamslink?confname=ABS2024>
2. All the time indicated is based on Central European Time (UTC+1:00);

Tuesday, July 30th Morning, 2024

WELCOME SPEECH

MC001-002 (Ground Floor)
– Management Campus of SZE

WELCOME SPEECH

09:00-09:10	Chaired by: <i>Prof. Majid Movahedi Rad, Department of Structural and Geotechnical Engineering, Széchenyi István University, Hungary</i> Delivered by: <i>Dr. Eszter Lukács, Vice President, Széchenyi István University, Hungary</i>
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09:10-09:25	GROUP PHOTO
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KEYNOTE SPEECHES

MC227-228 (2nd Floor)
– Management Campus of SZE

Keynote Speeches are chaired by:

Prof. Tamás Tóth, Dean, Albert Kázmér Faculty of Mosonmagyaróvár, Széchenyi István University, Hungary

09:25-10:05	Keynote Speech 1: Resilient Solutions for Dairy Farming <i>Prof. István Komlósi, University of Debrecen, Hungary</i>
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10:05-10:45	Keynote Speech 2: Buckwheat Research, My Life's Work <i>Prof. Emeritus Hisayoshi Hayashi, University of Tsukuba, Japan</i>
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10:45-11:00	COFFEE BREAK
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11:00-11:40	Keynote Speech 3: Viruses as Conquerors of Plants <i>Prof. Amand László Palkovics, Széchenyi István University, Hungary</i>
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11:40-12:20	Keynote Speech 4: Recent Advances in Biosensors Based on Enzymatic Inhibition (Online Presentation) <i>Prof. Aziz Amine, Hassan II University of Casablanca, Morocco</i>
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12:30-13:45	LUNCH BREAK (<i>Széchenyi Restaurant</i>)
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Tuesday, July 30th Afternoon, 2024

MC227-228 (2nd Floor)
– *Management Campus of SZE*

13:45-17:30 **Oral Session 1: Sustainable Agriculture, Soil and Plant Science**

17:30-18:00 **Meeting the Editor**

18:00-18:30 **Poster Presentations**

18:30-19:30 DINNER BREAK (*Széchenyi Restaurant*)

Wednesday, July 31st, 2024

MC227-228 (2nd Floor)
– *Management Campus of SZE*

09:00-11:55 **Oral Session 2: Food Science and Animal Science**

12:30-14:00 LUNCH BREAK (*Széchenyi Restaurant*)

14:00-17:45 **Oral Session 3: Biological Science and Microbiology**

18:00-19:30 DINNER BREAK (*Széchenyi Restaurant*)

Thursday, August 1st, 2024

Győr City, Hungary

09:40-10:00 Gather at the Gate of Széchenyi István University (Set off on time at 10:00)

10:00-12:00 **Sightseeing in Győr City**

12:00-14:00 Lunch Time

14:00-16:00 **Pannonhalma Abbey**

16:00 Back to Széchenyi István University

Notes:

* Please take your Tour Ticket while getting on the tour bus.

* This is a tentative itinerary. The final schedule is subject to slight adjustments based on actual arrangements made by the tour guide.

Part II Keynote Speeches

Keynote Speech 1: Resilient Solutions for Dairy Farming



Prof. Dr. István Komlósi DSc

Department of Animal Husbandry, Institute of Animal Science, Biotechnology and Nature Conservation, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Hungary

Biography: Dr István Komlósi is a professor at the Faculty of Agriculture, Food Science and Environmental Management, University of Debrecen, where he holds leader positions (vice-dean, dean). He graduated from the University of Agriculture (now University of Debrecen) in 1985, and started his academic career in 1987 at the same university. He conducted postgraduate studies at the University of New South Wales, Kensington, and the University of New England, Armidale, Australia studying Breeding programs, Quantitative genetics, and Biostatistics (1989/90). He was a postgraduate student at the University of Wales, Bangor, UK (1991/94) and received his PhD degree in 1994. The title of his thesis was “Computer image analysis in sheep to predict carcass conformation”. He initiated TEMPUS projects and national research projects and was a referee for EU research projects. His major areas of research are breeding programs and breeding value evaluation. Recently he broadened his research area with lean management. Contributed to the Hungarian national breeding programs of sheep, pig and beef breeds. Published 307 scientific papers, of which 43 are in impact factor journals, as an (co)author. His area of teaching is Principles of Animal Breeding, Biostatistics, Animal Genetics. He (co)supervised 10 PhD students and currently advises on 3. As a visiting lecturer at Curtin University, Perth Australia he taught Applied Statistics (2004/5). He was awarded the of Doctor of Science by the Hungarian Academy of Science (2013). He is the head of Animal Science Doctoral School and the Institute of Animal Science, Nutrition and Biodiversity at University of Debrecen. He received a recognition from the Ministry of Education (2012) and Doctor Honoris Causa, from University of Kaposvár (2020).

Abstract: Seventeen institutes and agencies collaborated with 120 pilot farms across 14 EU countries to find sustainable practices in the dairy industry. They focused on improving technical and environmental efficiency, animal welfare, social responsibility, and economic viability with social resilience. Instead of applying a top-down method, they used a bottom-up approach, collecting and organizing proven solutions into factsheets for farmers. Farmers identified needs for improving technical efficiency, including new early disease detection tools, preventative strategies, innovative feeding systems, and advanced silage production and management technologies. For environmental and animal welfare, they emphasized the importance of better calf and cow welfare, clear communication, and transparency to help the public understand agriculture's societal role. They also pointed out the need for energy efficiency, renewable energy use, and innovative, animal-friendly housing. To enhance economic efficiency and social resilience, critical areas include achieving a balanced work-life, fair compensation, flexibility, access to reliable information, knowledge sharing, training, and economic tools for better farm management decisions.

Keynote Speech 2: Buckwheat Research, My Life's Work



Prof. Emeritus Hisayoshi Hayashi

Biosphere Resource Science and Technology Program, Faculty of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan

Biography: Dr. Hisayoshi Hayashi graduated from University of Tsukuba in 1980. After working as an extension officer in Nagano Prefecture for one year, he moved to Chushin Agricultural Experiment Station, where he worked in the field crop cultivation department for six years. He then moved to University of Tsukuba, where he served as a professor at the Laboratory of Crop Production Systems and the Laboratory of Crop Science, before being appointed professor emeritus at University of Tsukuba in April 2023. He is a former president of the Japanese Society of Farm Work Research and a fellow of Japan Association of International Commission of Agricultural and Biosystems Engineering. Since April 2023, he has been leading training programs for extension workers, researchers, and government officials in developing countries as a training advisor at Japan International Cooperation Agency Tsukuba Center (JICA Tsukuba).

Abstract: Buckwheat, a minor crop, is grown in 19 countries, including Russia, China, and Ukraine, with a total production of 2.2 million tons, or only 0.1% of the total cereal production of 3.06 billion tons. As a result, there are few researchers, and the development of cultivation technologies and variety breeding of buckwheat has lagged behind. Buckwheat has become a crop that characterizes local food culture due to the small number of countries and production. Buckwheat noodles, or “soba kiri” in Japanese, which is simply buckwheat flour kneaded with water and cut into noodle strips, is a buckwheat dish that is representative of Japanese food culture. Because the cooking process is simple and no additives are added, it allows you to taste the differences in flavor depending on the variety. Although the taste of buckwheat noodles is influenced by many factors, such as growing area, cultivation method, cooking method, etc., the variety is the most important. Maintaining varieties and a stable seed supply are the most fundamental aspects of agriculture, but the situation varies greatly from crop to crop. In Japan, the Main Crop Seeds Act was repealed in 2018. As a result, there is no legal support for seed production, and the situation has changed. How is seed production carried out in the minor crop of buckwheat? Does the seed quality of home seed-raising buckwheat change if the seed is not renewed? I changed the buckwheat cultivar in 2008 and continued home seed-raising for the next 14 years without using any seed production techniques. These buckwheat seeds from different years were then grown simultaneously under the same conditions to compare their characteristics. Does home seed-raising of buckwheat really affect seed quality? If so, for how many years would this be acceptable? The keynote speech will present the latest research on buckwheat, which has become the life's work of the speaker, and the national and international situation of this minor crop.

Keynote Speech 3: Viruses as Conquerors of Plants



Prof. Dr. Amand László Palkovics DSc

Department of Plant Science, Albert Kázmér Faculty of Mosonmagyaróvár, Széchenyi István University, Hungary

Biography: László Amand Palkovics studied Horticulture Engineering, Plant Protection Engineering at University of Horticulture in 1985, got PhD degree from Agricultural University of Gödöllő in 1997, habilitation at Corvinus University of Budapest 2006, DSc from Hungarian Academy of Sciences in 2006 and from 2007 full professor. From 1985 to 1989 he was research associate at the Plant Breeding Department of the University of Horticulture, Budapest. From 1989 to 2003 he was research scientist at the Agricultural Biotechnology Center. From 2003 to 2021 he was head of Plant Pathology Department of Szent István University. From 2012 to 2020 held various positions at the university, thus vice-rector at Corvinus University of Budapest, and vice-rector and rector of Szent István University. From 2021 professor, and distinguished professor of Széchenyi István University, in addition to teaching, he holds many university positions. László Amand Palkovics is author, respectively co-author, of more than 500 research papers. He is member of different scientific organizations, editor-in-chief of a Hungarian research journal, editor and reviewer of numerous international journals. He has successfully applied for many research funds. His main research interests are identification of new plant pathogenic viruses bacteria and fungi, molecular diagnostics of plant pathogens, development of diagnostic methods, development of environmentally friendly crop protection technologies.

Abstract: We cannot learn much about the origin of plant viruses from fossils. The first observed viral disease was tulip color breaking in 1576, which is associated with the name of Carolus Clusius, the so-called Rembrandt tulips. The fact that these pathogens actually exist is attributed to Adolf Eduard Mayer, who performed the first experiments related to tobacco mosaic disease. In 1883, he established that tobacco mosaic disease can be transmitted by the tissue sap of the infected plant.

The real breakthrough was the work of Dimitrij Ivanovskij in 1892 and Martinus W. Beijerinck in 1898, who established that the tobacco mosaic disease can be caused by a pathogen that is smaller than bacteria, this was the first virus to be identified, the tobacco mosaic virus (TMV, tobacco mosaic virus). In 1929, J.P. McKinney discovered cross-protection, and in 1935, Wendel Meredith Stanley proved the crystallization of the tobacco mosaic virus, i.e., its protein nature, for which he received the Nobel Prize in Medicine. In 1937, F. C. Bawden and N. W. Pirie established the nucleoprotein nature of TMV. In 1939, G. A. Kausche, E. Pfankuch and H. Ruska made the first electron micrograph of the tobacco mosaic virus. In 1956 F.H.C. Crick and J.D. Watson created the structural model of TMV RNA. In 1982, P. Goelet, G.P. Lomonosoff, P.J.G. Akam, M.E. Gait and J. Karn revealed the primary structure (nucleotide sequence) of TMV RNA. In 1984, P. Alhquist synthesized the first infectious cDNA clone in vitro. In 1986, P. A. Powell-Abel et al. produced the first transgenic virus-resistant plant.

Ede Teller, the father of the hydrogen bomb, once said in his lecture at the Hungarian Academy of Sciences that our world is so complicated that in the near future, we may only be able to understand the functioning of viruses as the simplest "organisms". Indeed, if we look back at the history of virology,

which is slowly approaching a century and a half, it still has things to discover for us.

With the development of infectious virus clones and molecular biology, it became possible to recognize the properties of individual genes of viruses, and it became known how they were able to adapt and conquer plants. How the gene encoding the movement protein was stolen from the plant genetic material for their spread in plants. How can they even infect plants and get them to produce viral proteins? How they can multiply and replicate. During coexistence, how proteins were formed that block the plant's defense mechanism at several points. How they adapted to spread by insect vectors. Learning about the success, evolution and functioning of viruses made it possible to develop defense strategies against viruses we can use viruses as vectors to produce human/animal therapeutic proteins and vaccines in plant cells as well.

Keynote Speech 4: Recent Advances in Biosensors Based on Enzymatic Inhibition



Prof. Aziz AMINE

Faculty of Sciences and Techniques, Hassan II University of Casablanca, Morocco

Biography: Aziz Amine is currently a Full Professor at Hassan II University of Casablanca in Morocco. He obtained his Ph.D. degree from the Free University of Brussels in 1993. For the past 30 years, Professor Amine's research has centered on sensors and biosensors, specifically in Analytical Chemistry and bioelectrochemistry. He has authored over 200 papers, served as coordinator for various national and international research projects, and holds the position of Editor of Section at the journal *Biosensors & Bioelectronics*. As of February 2024, his research indicators on Google Scholar include an h-index of 62 and 11,700 citations. He was ranked among the top 2% of scientists worldwide in 2019, 2020, 2021, and 2022.

Abstract: A biosensor is an analytical tool that integrates a bioreceptor with a physical transducer to detect specific components in a sample. Biosensors utilizing enzyme inhibition offer a cost-effective means for swiftly screening inhibitors such as pesticides, aflatoxins, cyanide, sulfide, methylmercury, cadmium ions, nerve agents, antibiotics, and various other drugs and contaminants. These biosensors serve as complementary methods to conventional techniques primarily relying on high-performance liquid chromatography, gas chromatography, atomic absorption or emission spectrometry, and mass spectrometry.

The upcoming conference aims to elucidate recent advancements in biosensing methodologies based on enzyme inhibition, with a focus on several key areas:

- A novel theoretical approach for diagnosing the type of inhibition and assessing kinetic parameters. Introduction of a novel graphical method plotting fifty percent inhibition (I₅₀) against time at various substrate concentrations.
- Introduction of a novel graphical method plotting fifty percent inhibition (I₅₀) against time at various substrate concentrations
- Incorporation of nanomaterials and their impact on signal amplification and sensitivity enhancement.
- Development of a simple method for enzyme immobilization and the creation of a paper sensor coupled with a smartphone for detection purposes.

The conference will also highlight the real-world applications of biosensors based on reversible and irreversible enzyme inhibition, showcasing their analytical performance in terms of analysis time, detection limit, and matrix effect. Additionally, the advantages and limitations of "nanozymes," nanoparticles possessing intrinsic enzyme-like activity, will be a focal point of discussion at the conference.

Part III Poster Session

Poster Presentations Guidelines

Materials Provided by the Conference Organizer:

- ✧ X Racks & Base Fabric Canvases (60cm×160cm, see the figure)
- ✧ Adhesive Tapes or Clamps

Materials Provided by the Presenters:

- ✧ Home-made Posters
- ✧ Posters printed by ABS/ABB 2024 Committee

Requirements for the Posters:

- ✧ Materials: not limited, can be posted on the Canvases
- ✧ Size: 60cm×160cm
- ✧ Horizontal Head: please indicate the ABS/ABB logo and your paper number ‘**ABS****/ABB******’ as the head of the poster in order to make all the posters unified.



Best Poster Presentation Selection Procedure

Selection Criteria:

- Research Quality
- Presentation Skill
- Design

Samples of Stickers



Selection Procedure:

- 8 to 10 volunteers from the participants to serve as the judges to review the posters (Note: A judge would not have a poster or know the participant exhibiting a poster).
- 2 red stickers and 2 green stickers will be provided to the judges. The red sticker stands for “Research Quality” with a value of 2 points; the green sticker stands for “Presentation Skill and Design” with a value of 1 point.
- Each judge will go around the poster session and give the stickers to the poster which he/she thinks is of high quality or well designed and well presented, please be noticed that the judge cannot give 2 red or 2 green stickers to the same poster (one red and one green sticker are acceptable).
- After the poster session, the Chair or conference secretary will count the points from each poster and select **TWO** best poster presentations with more points. If there is a tie, the one with more red (Research Quality) stickers wins; if there is still a tie, the Chair will make the final decision.

Nature of the Award

- This award consists of free registration to the ABS/ABB2025 and a certificate.
- **TWO Best Poster Presenters** will be selected after session finishes with certificate issued **onsite** and results demonstrated on ABS/ABB2025 website.

List of Poster Presentations

Time: 18:00-18:30, July 30th, 2024

Location: Outside of MC227-228, Management Campus, SZE

Chairs:

Prof. Emeritus Hisayoshi Hayashi, University of Tsukuba, Japan

Prof. Huamin Wang, Hainan Vocational University of Science and Technology, China

ABB1320	Survey on employee health and medical awareness for sustainable PHR services in health insurance in Japan <i>Dr. Mayumi Yoshida, Medical Information System Development Center, Japan</i>
ABB1322	Chrysin induces ATP-dependent thermogenesis in 3T3-L1 adipocytes <i>Prof. Jong Won Yun, Daegu University, South Korea</i>
ABB1330	Tissue microarray analysis of GDH1 and its expression analysis in normal vs colon cancer cells <i>Prof. Sun Chul Kang, Daegu University, South Korea</i>
ABS4427	Development and validation of an analytical method for cyclobutrifluram and dimpropyridaz in agricultural products <i>Mr. Gui Hyun Jang, National Institute of Food and Drug Safety Evaluation, South Korea</i>
ABS4429	Development of ultrafast real-time PCR assay for identifying garlic, ginger, and onion in red pepper powder <i>Dr. Ho Soo Lim, National Institute of Food and Drug Safety Evaluation, South Korea</i>
ABS4432	Lactose intolerance: The most significant nutritional recommendations of lactose free diet <i>Dr. Judit Molnár, Széchenyi István University, Hungary</i>
ABS4440	Bio-stimulant effect of winter rape (<i>Brassica napus</i> L.) quantitative and qualitative indicators <i>Mr. Lajos Kubina, Széchenyi István University, Hungary</i>
ABS4461	Effects of heart failure drugs - sacubitril and valsartan on microbiome <i>Assist. Prof. Weiju Huang, Hsin-Sheng College of Medical Care and Management</i>
ABS4476	Antioxidant dynamics in <i>cajanus cajan</i> and <i>m. leucadendra</i>: from plants to nanoparticles <i>Prof. Meng-Jen Lee, Chaoyang University of Technology</i>
ABS4485	Improvement of pore water flow in contaminated clayey sediments using pyrolyzed oyster shells <i>Ms. Hee Eun Woo, Pukyong National University, South Korea</i>
ABS4486	A picolinamide fungicide for controlling <i>Cercospora</i>-leaf Spot (CLS) of sugar beet <i>Mr. Akos Ferenc Biro, Széchenyi István University, Hungary</i>

ABS4491	Research on the valorization brewer's spent yeast in the poultry nutrition <i>Dr. Adriana Dabija, Stefan cel Mare University of Suceava, Romania</i>
ABS4494	Possibilities of using <i>triticale</i> in bread-making <i>Prof. Georgiana Gabriela Codină, Stefan cel Mare University of Suceava, Romania</i>
ABS4495	<i>In vitro</i> starch digestibility assessing of maize-grape pomace extrudates <i>Dr. Mironeasa Silvia, Stefan cel Mare University of Suceava, Romania</i>
ABS4496	The impact of seedless grape pomace addition on some quality parameters of maize-based snacks <i>Dr. Costel Mironeasa, Stefan cel Mare University of Suceava, Romania</i>
ABS4499	The use of biostimulant microalgae to influence the growth and development of ornamental plants <i>Mr. Attila Nemeth, Széchenyi István University, Hungary</i>
ABS4501	Impact of the microalgae-bacteria interaction on maize (<i>Zea mays</i> L.) health and yield <i>Dr. Zoltan Molnar, Széchenyi István University, Hungary</i>
ABS4508	Factors influencing the leasing fees of hunting grounds in Hungary <i>Mr. Norbert Abauji, Széchenyi István University, Hungary</i>
ABS4515	Sustainability reporting practices of agricultural and forestry companies in Hungary: a content analysis <i>Dr. Szabolcs Troján, Széchenyi István University, Hungary</i>
ABS4529	Analysis of early warning signal of land degradation risk based on time series of remote sensing data <i>Mr. Vahid Shafaie, Széchenyi István University, Hungary</i>
ABS4470	The effect of crop rotation on agriculture and the environment <i>Mr. Zainulabdeen Khalaf Hashim, Széchenyi István University, Hungary</i>
ABB1337	Cadmium based stress response of endophytes of <i>Amaranthus cruentus</i> <i>Prof. Jana Žiarovská, Slovak University of Agriculture in Nitra, Slovak</i>

Part IV Oral Sessions

Oral Presentations Guidelines

General Guidelines

- ✧ All presentation time are shown in Central European Time (UTC+1:00);
- ✧ Duration for Invited Oral Presentation: 20 Minutes of Presentation including 2-3 Minutes of Q&A;
- ✧ Duration for Regular Oral Presentation: 15 Minutes of Presentation including 2-3 Minutes of Q&A;
- ✧ All presenters are requested to reach the Session Room prior to the schedule time and complete their presentation on time;
- ✧ Presenters should prepare Power Pointer or PDF Files for Presentation with Paper ID (ABS****/ABB****) marked on the last page;
- ✧ Signed and stamped presentation certificate would be issued after presentation.

Offline Oral Presentation Guidelines

Devices Provided by the Conference Organizer:

- ✧ Laptops (with MS-Office & Adobe Reader) & Projectors & Screen
- ✧ Laser Sticks
- ✧ Microphones
- ✧ Please send us the PowerPoint once it is ready and have the PPT back up in a U-disk. For presenters who do not send the PowerPoint, please save it in the laptop of the corresponding session 15 min in advance. Kindly tell the Session Chair (before the start of your session) that you are present.

Online Oral Presentation Guidelines

- ✧ Online Oral Presentation will be conducted via Microsoft Teams Meeting.
- ✧ If a presenter is not able to show up via Teams, the session chair / conference secretary will play the pre-recorded video presentation during his/her scheduled presentation time, if listeners have questions about the presentation, please contact the conference secretary to forward the questions.
- ✧ If a presenter cannot show up on time or has problems with internet connection, the session chair has the right to rearrange his/her presentation, and let the next presentation start.

Best Oral Presentation Selection Procedure

ONE best presentation will be selected from EACH session based on the following criteria:

- ✓ Research Quality
- ✓ Presentation Performance
- ✓ Presentation Language
- ✓ PowerPoint Design
- ✓ **Effective Communications**

Selection Procedure

- An assessment sheet (see picture) will be delivered to listeners before the session starts.
- When the session finishes, each listener is required to fill the sheet (he/she can vote for two excellent presentations) and give it to the Session Chair.

- For the online presenters, the assessment sheet would be sent in advance via e-mail. Kindly send us the filled form in electronic version within ONE HOUR after the session completed.
- The Session Chair will count the votes and select one best oral presentation with more votes. If there is a tie, the Session Chair will make the final decision.

Best Oral Presentations Award

The Best Oral Presenter from each session will receive an official certificate and a free registration to the ABS/ABB 2025.

Samples of Assessment Sheet

ABS/ABB2024 Oral Presentation Assessment

Dear participants,

Thanks for your support. Kindly read the instructions below for best oral presentation selection:

- You could select two best oral presentations with this form, and kindly fill in the form when all the speakers finish the presentations;
- 3 Best Oral presentation would be selected separately from Session 1 to Session 3;
- To ensure the fairness of the selection, one person could fill in only one form, kindly fill in the form by yourself and fill in your paper/abstract ID;

You can refer to the following criteria for best oral selection:

Items	Assessment
Content	Right, Logical, Original, Well-Structured
Language	Standard, Clear, Fluent, Natural
Performance	Spirited Appearance, Dress Appropriately, Behaves Naturally
PowerPoint	Layout, Structure, Typeset, Animation, Multimedia
Reaction	Build a Good Atmosphere, Speech Time Control Properly

Please write down the paper ID and give reasons for your recommendation:

Paper ID	Reasons

Evaluated by _____ (Paper ID: _____)

Note: Please fill it out and give it to the Session Chair or assistant so that the Best Oral could be selected.

Session 1_ Sustainable Agriculture, Soil and Plant Science

Time: 13:45-18:00 July 30th, 2024

Location: MC227-228 (2nd Floor), Management Campus, SZE

Session Chairs:

13:45-15:35 Assoc. Prof. Zoltan Molnar, Széchenyi István University, Hungary

15:55-18:00 Prof. Emeritus Hisayoshi Hayashi, University of Tsukuba, Japan

13:45-14:00	ABS4441	Weed detection in agricultural fields using machine vision <i>Ms. László Moldvai, Széchenyi István University, Hungary</i>
14:00-14:15	ABS4436	Effects of caesalpinia decapetala invasion on soil physical properties in vhembe biosphere reserve in Limpopo Province of South Africa <i>Dr. Sheunesu Ruwanza, Rhodes University, South Africa</i>
14:15-14:35	ABS4466 (Invited)	Nitrogen (N) species in marginal land soils: is N-fertilizer necessary for biomass production on marginal land in Ontario, Canada? <i>Prof. Julia Lu, Toronto Metropolitan University, Canada</i>
14:35-14:50	ABS4493	Assessment of soil erosion through spatial analysing of soil properties using statistical-based functions <i>Dr. Narges Kariminejad, Shiraz University, Iran</i>
14:50-15:05	ABS4420	Methane emission and mitigation strategy of animal husbandry under low carbon background <i>Dr. Wanling Hu, Huazhong Agricultural University, China</i>
15:05-15:20	ABS4430	Status of agricultural irrigation for Hungary <i>Mr. Balint Peter Sule, Széchenyi István University, Hungary</i>
15:20-15:35	ABS4437	The impact of plant-based soil amendments on improving the value of mortgaged farmland <i>Dr. Zhaogang Fu, Lingnan Normal University, China</i>
15:35-15:55		COFFEE BREAK
15:55-16:10	ABS4431	Effects of vinasse and zinc complex on the yield, crude protein, and gluten of winter wheat <i>Ms. Ottília Mária Vámos, Széchenyi István University, Hungary</i>
16:10-16:25	ABS4445	Effect of asbestos cement contamination in irrigation water on physiological and germination parameters of <i>Trifolium pratense</i> and <i>Solanum lycopersicum</i> seeds <i>Mr. Gergely Zoltán Macher, Széchenyi István University, Hungary</i>
16:25-16:40	ABS4468	Control of western corn rootworm with entomopathogenic nematodes in maize monoculture <i>Mr. Vörös Levente, Széchenyi István University, Hungary</i>

16:40-16:55	ABS4507	Influence of seed rate and row spacing across on two different maturity groups of sorghum grain yield and quality characteristics <i>Mr. Balázs Szemerits, Széchenyi István University, Hungary</i>
16:55-17:15	ABS4580 (Invited)	Does barley and horse-bean grain quality depend on intercropping and nitrogen fertilization? <i>Dr. Silvia Pampana, University of Pisa, Italy</i>
17:15-17:30	ABS4506	Possibilities of rapid generation cycling of hemp (<i>Cannabis sativa</i> L.) for the stabilization of recessive traits <i>Mr. Gergő Somody, Széchenyi István University, Hungary</i>
17:30-18:00		Meet the Editor! How to publish in Scientific Journals: Instructions and Tips from Dr. Silvia Pampana - Editor in Chief of Agronomy Journal

Session 2_ Food Science and Animal Science

Time: 09:00-11:55 July 31st, 2024

Location: MC227-228 (2nd Floor), Management Campus, SZE

Session Chair: Assoc. Prof. Tao Yin, Huazhong Agricultural University, China

09:00-09:15	ABS4474	The uric acid lowering effects and utilization of <i>Artemisia Selengensis</i> Turez <i>Assoc. Prof. Ting Wu, Huazhong Agricultural University, China</i>
09:15-09:30	ABS4502	Citrus flavonoids (naringin and hesperidin) as functional ingredients in dairy products <i>Ms. Uhanovitage Rushanthi Chandimala, Széchenyi István University, Hungary</i>
09:30-09:45	ABS4488	Application of atomic spectroscopy for trace element analysis of fruit juices: a review <i>Ms. Pavithra Game Kankanamge Hemachandra, Széchenyi István University, Hungary</i>
09:45-10:00	ABS4534	Sensory, consumer preference, and willingness to pay analyses comparing predominantly <i>angus</i> and <i>santa gertrudis</i>-influenced beef <i>Dr. Ryan Feuz, Utah State University, USA</i>
10:00-10:15	ABS4489	Investigating the technology of Short Period of Incubation During Storage (SPIDES) to mitigate damage caused by mechanical impact <i>Ms. Tímea Ágnes Torma, Széchenyi István University, Hungary</i>
10:15-10:30	ABS4452	Exploring disparities in the generation of food waste from a spatial and sustainability perspective <i>Dr. Anikó Zseni, Széchenyi István University, Hungary</i>

10:30-10:50		COFFEE BREAK
10:50-11:05	ABS4554	The effect of transportation stress on fish muscle quality <i>Assoc. Prof. Tao Yin, Huazhong Agricultural University, China</i>
11:05-11:20	ABS4487	Effect of dietary butyrate supplementation on the production performance and parasitology of growing rabbits <i>Prof. Zsolt Matics, Széchenyi István University, Hungary</i>
11:20-11:40	ABS4464 (Invited)	Effects of dietary resveratrol supplementation during late pregnancy on reproductive performance, and placental function in shaziling sow <i>Prof. Jianhua He, Hunan Agricultural University, China</i>
11:40-11:55	ABS4566	Influence of different storage temperature and duration on incubation traits, hatching performance and embryonic development in chukar partridge eggs <i>Dr. Mustafa Çam, Selcuk University, Turkey</i>

Session 3_ Biological Science and Microbiology

Time: 14:00-17:45 July 31st, 2024

Online Room Link: <http://www.academicconf.com/teamslink?confname=ABS2024>

Offline Location: MC227-228 (2nd Floor), Management Campus, SZE

Session Chairs:

14:00-15:35 Prof. Julia Lu, Toronto Metropolitan University, Canada

15:55-17:45 Prof. Fufeng Liu, Tianjin University of Science & Technology, China

14:00-14:20	ABS4422 (Invited)	Construction and catalytic study of oriented photo-crosslinking immobilized enzyme by affinity peptide <i>Prof. Fufeng Liu, Tianjin University of Science & Technology, China</i>
14:20-14:35	ABS4433	From complexity to clarity: unraveling the potential of large genomic datasets <i>Prof. Armin O Schmitt, Georg August-Universität Göttingen, Germany</i>
14:35-14:50	ABS4551	Molecular mechanisms of eugenol as an anti-tumour bioactive compound: A comprehensive review <i>Dr. Shukrya Hatem Alwan, Al-Furat Al-Awsat Technical University, Iraq</i>
14:50-15:05	ABS4479	Mechanism of the solubility increase of rice protein-ovalbumin co-assembly and its great potential as an emulsifier in high internal phase emulsion <i>Assoc. Prof. Yan Xu, Huazhong Agricultural University, China</i>

15:05-15:20	ABS4559	Structure of amelogenin gene in a frog, xenopus tropicalis and its molecular evolution <i>Dr. Hitoshi Ando, Tsurumi University, Japan</i>
15:20-15:35	ABS4434	Planthopper diversity on coconut and putative vectors of lethal yellowing in Jamaica <i>Dr. Wayne Myrie, Coconut Industry Board, Jamaica</i>
15:35-15:55	COFFEE BREAK	
15:55-16:15	ABS4518 (Invited)	The new age sensorics- biological and bioinspired structures <i>Dr. Danica Pavlović, Institute of Physics Belgrade, Serbia</i>
16:15-16:30	ABS4439	Examinations on the cultivated bacteria from the drinking water system of a healthcare building <i>Dr. Anikó Zseni, Széchenyi István University, Hungary</i>
16:30-16:45	ABS4481	Utilization of bamboo biochar in improving the performance of sediment microbial fuel cells from benthic coastal sediment of oyster mariculture <i>Ms. Nurfarhana Nabila Binti Mohd Noor, Pukyong National University, South Korea</i>
16:45-17:00	ABS4509	Quantitative comparison of some faecal bacterial communities in groups of mangalica and commercial pigs <i>Dr. Károly Tempfli, Széchenyi István University, Hungary</i>
17:00-17:15	ABS4483	Isolation and characterization of beneficial microorganisms from the soil of aromatic plants <i>Dr. Babett Greff, Széchenyi István University, Hungary</i>
17:15-17:30	ABS4510	The fermentability of agricultural raw materials by probiotic bacterial strains <i>Mr. Zoltán Hatvan, Széchenyi István University, Hungary</i>
17:30-17:45	ABS4563 (Online)	Patho-morphological and immunohistochemical studies on bovine horn core carcinoma <i>Dr. Vivek Kumar, Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, India</i>

Part V Conference Venue

Venue: Széchenyi István University

Website: <https://www.uni.sze.hu/>

Address: 9026 Győr, Egyetem tér 1., Hungary

Tel.: +36 (96) 503 400

Széchenyi István University (SZE) is located in Győr, at the centre of Central Europe's "golden triangle". It sits halfway between the capital of Hungary, Austria and Slovakia, along highway M15, on the river Danube. The main campus of The University of Győr (Széchenyi István University), situated on the banks of the Danube River and only minutes on foot from the downtown. As a dynamically developing Higher Education Institution with nearly 14,000 students, since 2016 the University has seen a rapid rise in the number of international students, now representing 70 nations.

The university has 45 years of tradition and experience in supporting Hungary's leading industries with a strong focus on vehicle engineering, transportation and telecommunication. It becomes the primary driver of the regional economy provider for the public service sector and supplies the human resources and training needs for the North-Transdanubian region.



Térkép jelzés	Épület neve
ÚT	Új-Tudástér épület
A, B, C, D	Tanulmányi épületek
K2, K3, K4	Hegedűs Gyula Kollégium
K0, K1	Multifunkciós Épület
E	"E" épület
L1, L2, L3	Labor Épület
G	Építész Műteremház
S1	Győr Városi Egyetemi Csarnok
S2	Kosárlabda Edzőcsarnok
IS	INNO-SHARE épület
LIB	Egyetemi Könyvtár
IG	Igazgatási Épület
I	INOK - Idegen Nyelvi Oktatási Központ Magyar Posta
F1	Járműhajtás Laboratórium
F2	Csomagolás és Környezetállósági Vizsgálólaboratórium
J	Deák Ferenc Állam- és Jogtudományi Kar épület
MOBILIS	Mobilis Interaktív Kiállítási Központ
BMT	Belsőégésű Motorok és Járműhajtások Tanszék
MC	Menedzsment Campus
P5, P6	Nyitott parkolóznák
P1, P2, P3, P4	Sorompóval elzárt parkolóznák



Access to Venue

1. From Budapest Ferenc Liszt International Airport to Széchenyi István University

(1) Airport Shuttle Bus – Metro - Inter-city Rail RJX – Bus

From Budapest Ferenc Liszt International Airport, walk 3 min (150m) to station: Liszt Ferenc Airport 2, take **airport shuttle bus 100E Airport Express**, get off at Kálvin tér M (30 min); walk about 3 min to the Metro station: Kálvin tér M, take **Metro M4** (towards Keleti pályaudvar), get off at Keleti pályaudvar M; Walk from Keleti pályaudvar M to Budapest-Keleti (3 min), take **Inter-city Rail RJX** to Győr (about 1h 20 min); Walk from Győr station to Aradi vértanúk útja, szökőkút (about 10 min); take **bus No. 11**, get off at the 3rd stop: Széchenyi István University (or just walk from Győr station to Széchenyi István University, about 1.2miles, 24 min.).

Note: Airport Shuttle Bus 100E operates 24 hours a day, about every 15 minutes during the day, every 30-40 minutes at night. Ticket price: 2200 HUF.

(2) Taxi - Inter-city Rail RJX – Bus

From Budapest Ferenc Liszt International Airport, take a **Taxi** to Budapest-Keleti (Railway Station), take **Inter-city Rail RJX** to Győr (about 1h 20 min); Walk from Győr station to Aradi vértanúk útja, szökőkút (about 10 min); take **bus No. 11**, get off at the 3rd stop: Széchenyi István University (or just walk from Győr station to Széchenyi István University, about 1.2miles, 24 min.).

2. From Vienna International Airport (Austria) to Széchenyi István University

Inter-city Rail RJX - Inter-city Rail RJX – Bus (2h 16 min)

From Vienna International Airport, walk 2 min to Flughafen Wien Bahnhof, take **Inter-city Rail RJX** (towards Innsbruck Hbf), get off at Wien HBF (about 20 min); take **Inter-city Rail RJX** (towards Budapest-Keleti) to Győr, get off at Győr (1 h 10 min); Walk from Győr station to Aradi vértanúk útja, szökőkút (about 10 min); take **bus No. 11**, get off at the 3rd stop: Széchenyi István University (or just walk from Győr station to Széchenyi István University, about 1.2miles, 24 min).

Part VI Acknowledgements

On behalf of the ABS/ABB 2024 Organizing Committee, we would like to take this opportunity to express our sincere gratitude to our participants. Without their support and contributions, we would not be able to hold the conference successfully in this special year. We would also like to express our acknowledgments to the Technical Program Committee members who have given their professional guidance and valuable advice as reviewers. Below are the lists of the Technical Program Committee members. For those who contribute to the success of the conference organization without listing their names here, we would love to say thanks as well.

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