



**The 7th International Conference on
Agricultural and Biological Sciences
(ABS 2021) & (ABB 2021)
The 4th International Conference on
Applied Biochemistry and Biotechnology**

Conference Program

August 9th-11th, 2021

Online Conference





ABS/ABB 2021 CONFERENCE PROGRAM

August 9th-11th, 2021

China Standard Time (UTC/GMT+8:00)

ONLINE-Microsoft Teams Meeting



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Part I Conference Schedule

Sunday, August 8th, 2021

MS Teams Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

14:00-17:00 Ice Breaking and MS Teams Application Testing

Monday, August 9th, 2021

MS Teams Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

08:55-09:00 **OPENING CEREMONY** (Chaired by)

Prof. Xuqiao Feng, Bohai University, China

WELCOME SPEECH

09:00-09:10 *Prof. Jianrong Li, Conference General Chair, College of Food Science and Engineering, Bohai University, China*

09:10-09:50 **Plenary Speech 1: Carbon Footprint of Milk Production in Latin America**

Prof. Carlos Gomez, Universidad Nacional Agraria la Molina, Peru

09:50-10:30 **Plenary Speech 2: Agriculture Promotes Human Wellbeing and Supports the Preservation of Local Culture**

Prof. Hisayoshi Hayashi, University of Tsukuba, Japan

10:30-10:40 **BREAK**

10:40-11:20 **Plenary Speech 3: Study on the Gel Molecular Mechanism of Surimi-Based Products Based on The Interaction of Components**

Prof. Xuepeng Li, Bohai University, China

Plenary Speech 4: Electrochemical Strategies for Food Additives Sensing

11:20-12:00 *Prof. Hassan Karimi-Maleh, University of Electronics Science and Technology of China (UESTC), China / Quchan University of Technology, Iran / University of Johannesburg, South Africa*

12:00-14:00 **LUNCH BREAK**

14:00-18:30 **Oral Session 1: Crop Physiology and Production**

Tuesday, August 10th, 2021

MS Teams Link: <http://www.academicconf.com/teamslink?confname=ABS2021> (Session 2 & 4)

08:30-12:25 **Oral Session 2: Plant Physiology and Systematics**

12:30-14:00 **LUNCH BREAK**

14:00-18:35 **Oral Session 4: Food Science and Technology**

MS Teams Link: <http://www.academicconf.com/teamslink?confname=ABB2021> (Session 3 & 5)

08:30-12:05 **Oral Session 3: Animal Production and Fisheries**

12:30-14:00 **LUNCH BREAK**

14:00-18:15 **Oral Session 5: Biological Science and Applied Biotechnology**

Wednesday, August 11th, 2021

MS Teams Link: <http://www.academicconf.com/teamslink?confname=ABS2021> (Session 6 & 8)

08:30-12:40 **Oral Session 6: Agriculture, Pest Control, Climate Change and Sociology**

13:00-14:00 **LUNCH BREAK**

14:00-18:45 **Oral Session 8: Medical Biology and Pharmacology**

MS Teams Link: <http://www.academicconf.com/teamslink?confname=ABB2021> (Session 7 & 9)

08:30-11:55 **Oral Session 7: Environmental Control and Green Technology**

12:30-14:00 **LUNCH BREAK**

14:00-18:20 **Oral Session 9: Industry Applied Biotechnology**

Part II Plenary Speeches

Plenary Speech 1: Carbon Footprint of Milk Production in Latin America



Prof. Carlos Gomez

Department of Animal Husbandry, Universidad Nacional Agraria La Molina, Peru

Biography: Carlos Gomez is a Professor in Universidad Nacional Agraria la Molina, Peru since 1990. He earned his BSc degree in Animal Science and MSc in Animal Nutrition in the same university and a PhD degree in Animal Biochemistry from U. Guelph (Canada). His main topic of scientific work is livestock nutrition and feeding. Last research topics are feeding strategies for cattle using agro industrial byproducts, the design of mitigation strategies to reduce carbon footprint of fiber, milk and meat from ruminants and the evaluation of adaptation strategies of livestock to the effects of climate change. From these researches, he has produced more than 30 papers in reputed journals. Besides actively supervising undergraduates and postgraduate students, he also became external examiner to postgraduate theses from local and overseas universities as well as being reviewer of international journals. He has been invited as speaker, session chair, moderator and facilitator in local and international workshops, symposia and conferences. He has also led during the last 15 years various research projects with funding from World Bank, Interamerican Development Bank, ILRI, International Potato Center and National Science Council USA. Acting as member of invited committee he contributed recently to the Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (Emissions from livestock and manure management).

Abstract: The study reviews carbon footprint (CF) for milk production in Latin America from cradle to farm gate. The objective is to estimate: 1) the effect of production system (zero-grazing, mixed, and pasture), 2) animal breed (specialized dairy vs. dual-purpose), and 3) climate (tropical vs. temperate) on milk production (kg/cow/day) and CF [kg CO₂eq/kg fat and protein corrected milk (FPCM)]. A systematic literature was conducted, in which 11 studies which estimate 32 individual CF were included in the final analysis. Studies included in the final analysis allowed to calculate CF per kg FPCM, included upstream emissions calculations, and used a Tier 2 approach for enteric methane emissions. The range of the CF observed in the region was of 1.54 to 3.57 kg CO₂eq/kg FPCM. In this study, production system had a significant effect on milk production, but not on CF. Zero-grazing compared with pasture systems had a 140% greater milk production (20.1 vs. 8.4 kg of milk/cow/day), but CFs were similar, but numerically greater CF (70%) for pasture systems. This indicates that CFs between production systems can vary greatly, and that low CF might also be possible for systems with lower milk production. Breed and climate had a significant effect on milk production and CF. Compared with specialized dairy cattle, dual-purpose breeds produced less milk and milk with a higher CF. Compared with milk produced in temperate climate, milk produced in tropical climate produced less milk and milk with a higher CF. However, it is not clear if this was an effect of breed or climate, because insufficient studies were available to estimate the effect of breed within climate. A moderate

correlation ($R^2 = 0.48$) was found between milk production and CF with decreasing CF with increasing milk production in low producing cattle but not in high producing cattle. In conclusion, high variability within production systems seem to indicate that it is possible to have low emissions in all productions systems and that increases in milk production can be a major driver to reduce CF in low production systems in Latin America. Comparisons of CF of milk production in Latina America with values of CF of milk production in other continents are discussed.

Plenary Speech 2: Agriculture Promotes Human Wellbeing and Supports the Preservation of Local Culture



Prof. Hisayoshi Hayashi

Faculty of Life and Environmental Sciences, University of Tsukuba, Japan

Biography: Dr. Hisayoshi Hayashi graduated from the University of Tsukuba in 1980. After working as an extension officer for a year in Nagano Prefecture he moved to Chushin Agricultural Experiment Station (CAES), where he was a member of the station's department of field crop cultivation for six years. He then moved to the University of Tsukuba, where he is a professor and head of the Crop Science laboratories, now. He is the president of Japanese Society of Farm Work Research, too. His research focuses on the development and evaluation of sustainable, environmentally friendly production systems for both major crops and regional specialty crops, for example buckwheat (*Fagopyrum esculentum* Moench). The effects of farm work on the human mind is one of his important research objectives, too.

Abstract: The UN has defined seventeen sustainable development goals (SDGs) to provide a common blueprint for the continuation of human societies and the preservation of the world's ecosystems. Agriculture relates directly to SDG 2 (Zero Hunger) and is also related to the other SDGs to at least some extent. In addition to its core purpose of food production, agriculture affects many ecosystem services. For example, paddy fields can act as sources of clean water, prevent flooding, mitigate climate change, and help conserve biodiversity and at-risk ecosystems. Agriculture can also contribute to soil conservation, prevention of soil erosion, environmental conservation, and organic waste treatment. In addition, it reflects the local culture and facilitates its inheritance by younger generations as well as providing a space for people to interact with and enjoy the agricultural environment. Despite agriculture's fundamental importance for human survival, it is often poorly understood in modern societies; agricultural work may be disliked because it is considered physically strenuous. Promoting a better understanding of agriculture is a key educational objective of the Faculty of Agriculture. There is an elite junior and senior high school in central Tokyo, Japan that has maintained and managed paddy fields for over 70 years since its establishment. It was found that completing a course of field work on the process of paddy rice cultivation, from field making to harvesting, increased students' understanding of the importance of agriculture and helped to pass on the school's culture and traditions. Experience of agricultural work can also facilitate recovery from damaging conditions. This is exemplified by agricultural return to work program organized by the department of Psychiatry at the University of Tsukuba Hospital; day care center patients participating in this program reported that they found the experience enjoyable and that it strengthened their appreciation of life.

Plenary Speech 3: Study on the Gel Molecular Mechanism of Surimi-Based Products Based on The Interaction of Components

Prof. Xuepeng Li

College of Food Science and Engineering, Bohai University, China



Biography: Dr. Xue-peng Li is currently the Professor and Dean of the College of Food Science and Engineering, Bohai University; Director of the Institute of Storage and Processing of Aquatic Products, Institute of Aquatic Products Research, Institute of Aquatic Products of the Food Science Research Institute, Director of Liaoning Agricultural Product Quality Safety Traceability Professional Technology Innovation Center.

His research focuses on the processing and preservation of seafood, the utilization of seafood by-products, surimi and surimi products. The discovery of seafood proteins and peptides is one of his important research objectives, too. More than 80 high quality papers in related field were published, among which 2 papers were selected as highly cited papers in ESI and 2 papers were selected as leading papers in F5000. He also works as the committee member and reviewers of more than 20 journals like Food Science, Food Industry Technology, Future Food Science, Food Chemistry, Journal of Agricultural and Food Chemistry etc.

Abstract: Gel properties are one of the important determining factors for the quality and sensory properties of surimi products. Surimi product is a typical multi-phase, multi-component food system. The interaction between the main components such as proteins, polysaccharides and lipids is the basis for the formation of surimi and ultimately determines the quality of the products. However, the interaction mechanism between the multiple components in the surimi mixed system and its effect on the quality of surimi products are still unclear. This constrains the processing technology, theoretical innovation and the healthy development of the industry for surimi products. In this study, the effects of exogenous additives such as proteins, polysaccharides, lipids and polyphenols on the thermally induced gelation properties of surimi are reviewed based on the formation mechanism and influencing factors of surimi gels. The purpose is to analyze the interaction between the components in surimi products and their application in surimi production. In this way, we provide theoretical basis and reference for the development of new surimi products and the regulation of gel quality.

Plenary Speech 4: Electrochemical Strategies for Food Additives Sensing



Prof. Hassan Karimi-Maleh

School of Resources and Environment, University of Electronics Science and Technology of China, China;

Department of Chemical Engineering and Energy, Laboratory of Nanotechnology, Quchan University of Technology, Iran;

Department of Applied Chemistry, University of Johannesburg, South Africa

Biography: Hassan Karimi-Maleh works as professor in the School of Resource and Environment, University of Electronics Science and Technology of China (UESTC). He is a highly cited researcher selected by Clarivate Analytics 2018 (cross-filed), 2019 (Agriculture field) and 2020 (cross-filed) and Top 1% Scientists in Chemistry and Agriculture simultaneously in ISI Essential Science Indicators. He has published more than 250 research papers with more than 15000 citations and H-index 77 and he works as editorial board of more than 20 international journals such as *Ecotoxicology and Environmental Safety* (Elsevier, IF 4.527), *Journal of Food Measurement and Characterization* and etc. He also works as adjunct Professor in University of Johannesburg, South Africa and Quchan University of Technology, Quchan, Iran. His research interest includes development of chemically modified electrodes and DNA sensors for food, biological, pharmaceutical and environmental compounds analysis and investigation of electrochemistry behavior of electroactive materials such as polymers, organic and inorganic compounds. Recently, he focused on synthesis of nanomaterials and application of them in drug delivery and energy storage fields.

Abstract: Analysis of food compounds is an inevitable issue to evaluate quality of the compounds used in human life. Quality of drinking water and food products is directly associated with human health. Presence of forbidden additives in food products and toxic compounds in water samples with low quality lead to important problems for human health. Therefore, attention to analytical strategy for investigation of quality of food and water compounds and monitoring presence of forbidden compounds in materials used by humans has increased in recent years. Analytical methods help to identify and quantify both permissible and unauthorized compounds present in the materials used in human daily life. Among analytical methods, electrochemical methods have been shown to have more advantages compared to other analytical methods due to their portability and low cost. Most of big companies have applied this type of analytical methods because of their fast and selective analysis. Due to simple operation and high diversity of electroanalytical sensors, these types of sensors are expected to be the future generation of analytical systems. Therefore, many scientists and researchers have focused on designing and fabrication of electroanalytical sensors with good selectivity and high sensitivity for different types of compounds such as food products. In this presentation, we described the mechanism and different examples of DNA, enzymatic and electro-catalytic methods for electroanalytical determination of food compounds.

Part III Oral Presentations

Online Oral Presentation Guidelines

- ✚ Online Oral Presentation will be conducted via Microsoft Teams Meeting.
- ✚ All presenters are requested to reach the Online Session Room prior to the schedule time and complete their presentation on time.
- ✚ **All presentation times are shown in China Standard Time (GMT+8:00).**
- ✚ 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 have problem with internet connection, the session chair has the right to rearrange his/her presentation, and let the next presentation start.
- ✚ Signed and stamped electronic presentation certificate would be issued via e-mail after presentation.

Best Oral Presentations Selection

The session chair will select one best presentations from his/her session based on the following criteria:

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

Best Oral Presentations Award

The Best Oral Presenter from each session will receive an official certificate and a free registration to the ABS/ABB2022.

Session 1_ Crop Physiology and Production

Session Time: 14:00-18:30 August 9th, 2021 (China Standard Time (UTC/GMT+8:00))

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

Session Chair: Prof. Ashfaque Ahmed, University of Dhaka, Bangladesh

14:00-14:15	ABS3806	Structure-function relationship of a cotton NAC transcription factor with regards to ABA and abiotic stress responses <i>Dr. Trishla Shalibhadra Vikas, University of Hyderabad, India</i>
14:15-14:30	ABS3690	Sulfur metabolic engineering enhances cadmium stress tolerance and root to shoot iron translocation in <i>Brassica napus</i> L. <i>Dr. Muhammad Sayyar Khan, The University of Agriculture Peshawar, Pakistan</i>
14:30-14:45	ABS3877	Mapping and validation of Anthocyanin1 pigmentation gene for its effectiveness in early selection of shrunken2 gene governing kernel sweetness in maize <i>Dr. Brijesh Kumar Mehta, Indian Grassland and Fodder Research Institute, India</i>
14:45-15:05	ABB1179 (Invited)	Physiological and molecular responses of cucumber seedlings under different phosphate regimes <i>Dr. Synan F. AbuQamar, United Arab Emirates University, UAE</i>
15:05-15:25	ABS3791 (Invited)	Increase soybean productivity with different seed stimulation technologies <i>Prof. Sylwia Lewandowska, Wroclaw University, Poland</i>
15:25-15:40	ABS3744	Discovery of subtilisin inhibitor like protein 'ppLPI-1' from leaves of pigeonpea (<i>Cajanus cajan</i> , cv. BSMR 736) which exhibits inhibition against <i>Helicoverpa armigera</i> gut proteinases <i>Dr. Faiyaz Khudaboddin Shaikh, Dr. Babasaheb Ambedkar Marathwada University, India</i>
15:40-15:50	BREAK	
15:50-16:10	ABS3831 (Invited)	Glutathione transferases and glutathione redox status in tomato roots under stress <i>Prof. Jolan Csiszar, University of Szeged, Hungary</i>
16:10-16:30	ABB1251 (Invited)	Enhancement of bacillus-inoculated soybean growth and stress tolerance through modulation of the biochemical and molecular mechanisms <i>Prof. Mohamed A. El-Esawi, Tanta University, Egypt</i>
16:30-16:45	ABS3770	Association of molecular markers with physio-biochemical traits related to seed vigour in rice <i>Dr. Elssa Pandit, Fakir Mohan University, India</i>

16:45-17:00	ABS3754	Comparative transcriptome profiling of low light tolerant and sensitive rice varieties induced by low light stress at active tillering stage <i>Dr. Darshan Panda, ICAR-National Rice Research Institute, India</i>
17:00-17:15	ABB1204	Prediction of phytochemical composition, <i>in vitro</i> antioxidant activity and individual phenolic compounds of common beans using MIR and NIR spectroscopy <i>Dr. Bruna Carbas, University of Trás-os-Montes and Alto Douro, Portugal</i>
17:15-17:30	ABB1205	Phenolic content and antioxidant profile of Indian wheat genotypes grown at various locations <i>Dr. Sunil Kumar, ICAR-Indian Institute of Wheat & Barley Research, India</i>
17:30-17:45	ABS3810	Proportionate substitution of topsoil with poultry manure, rice hull and sawdust in three growth media influenced growth and yield of four elite sweet potato (<i>Ipomoea batatas</i>) genotypes <i>Prof. K. P. Baiyeri, University of Nigeria, Nigeria</i>
17:45-18:00	ABS3701	Optimizing the establishment of tropical bean and maize varieties <i>Dr. J A Andrade, University of Évora, Portugal</i>
18:00-18:15	ABB1243	Contribution of ascorbate and glutathione in endophytic bacteria <i>bacillus subtilis</i> -mediated drought tolerance of wheat genotypes <i>Dr. Oksana Lastochkina, Russian Academy of Sciences, Russia</i>
18:15-18:30	ABS3847	Isolation and identification of fomesafen-tolerant rhizospheric microorganisms from crops <i>Dr. Saran Anabel, CONICET-AIC, Argentina</i>

Session 2_ Plant Physiology and Systematics

Session Time: 08:30-12:25 August 10th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

Session Chair: Prof. Mingjie Chen, Xinyang Normal University, China

8:30-8:45	ABS3887	Sequevar distribution of <i>Ralstonia</i> spp. in Solanaceae in the semiarid climate of the Pernambuco State, Brazil <i>Dr. Greecy Mirian Rodrigues Albuquerque, Federal Rural University of Pernambuco, Brazil</i>
8:45-9:00	ABS3845	Floral glands in pleurothallidinae (epidendroideae, orchidaceae): new types, volatiles and insights on its phylogeny and pollination relationships <i>Mr. Gustavo Arévalo-Rodrigues, Instituto de Botânica, Brazil</i>
9:00-9:15	ABB1264	Plant growth promoting activity mediated by several native fungal strains from Mexico isolated from a “milpa”, a prehispanic agricultural technique <i>Dr. Jorge L. Folch-Mallol, Universidad Autónoma del Estado de Morelos, Mexico</i>
9:15-9:35	ABS3676 (Invited)	The advance in tea cuticle research <i>Prof. Mingjie Chen, Xinyang Normal University, China</i>
9:35-9:50	ABS3761	Screening for p- and k- solubilizing, and siderophore producing capacity of rhizobacteria from khao dawk mali 105 aromatic rice <i>Dr. K Chinachanta, Chiang Mai University, Thailand</i>
9:50-10:05	ABS3833	Allometric equations for predicting biomass of young canarium tree (<i>canarium indicum</i> l.) to handle climate change <i>Dr. Gun Mardiatmoko, Pattimura University, Indonesia</i>
10:05-10:20	ABS3858	Evaluation of pre-harvest sprouting resistance of 34 quinoa resources in Yunnan Province, P. R. China <i>Prof. Fenggen Guo, Yunnan Agricultural University, China</i>
10:20-10:30	BREAK	
10:30-10:45	ABS3702	A retrospective observational study investigating the preventive effect of herbal compound of <i>Saccharum officinarum</i> , <i>Chebulic myrobalan</i> and <i>Pistacia lentiscus</i> on Covid-19 infection <i>Dr. Maryam Hassanlou, Women’s University of Semnan (Farzanegan), Iran</i>
10:45-11:00	ABB1190	Application of silica nanoparticles enhances the growth and stress responses in <i>Lens culinaris</i> exposed to NaCl <i>Dr. Swarnendu Roy, University of North Bengal, India</i>
11:00-11:15	ABS3741	Seed bio-priming with seaweed extracts improve the growth and development as well as abiotic stress tolerance ability of crop plants <i>Dr. Sananda Mondal, Institute of Agriculture, India</i>

11:15-11:35	ABS3825 (Invited)	Measuring crop roots using combination of root anatomical and histochemical techniques in intercropping systems <i>Dr. Affendy Hassan, Universiti Malaysia Sabah, Malaysia</i>
11:35-11:50	ABS3868	Controlled release of fertilizers and water from matrices to plants <i>Dr. Mercedes Jiménez-Rosado, Seville University, Spain</i>
11:50-12:05	ABS3848	Evaluation of insecticide properties of essential oils from <i>Curcuma longa</i> , <i>Illicium verum</i> , <i>Foeniculum vulgare</i> , and <i>Ocimum tenuiflorum</i> against <i>Spodoptera litura</i> <i>Dr. Hataichanok Passara, King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
12:05-12:25	ABS3884 (Invited)	Alleviation of some environmental stress using plant growth rhizobacteria (PGPR) in Egypt <i>Prof. Nabil Omar, Soils, Water and Environment Research Institute, Egypt</i>

Session 3 _ Animal Production and Fisheries

Session Time: 08:30-12:05 August 10th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABB2021>

Session Chair: Dr. Saranika Talukder, The University of Melbourne, Australia

8:30-8:45	ABS3878	Characterization and identification of lactic acid bacteria from Mexican stingless bees (<i>Apidae: Meliponini</i>) <i>Dr. R Torres-Moreno, Escuela Nacional de Ciencias Biológicas Instituto Politécnico Nacional, México</i>
8:45-9:00	ABS3879	Gonadotropin releasing hormone analog treatments of Atlantic Salmon broodstock and its effects of offspring quality <i>Dr. Andrea B. Zepeda, Universidad Autónoma de Chile, Chile</i>
9:00-9:15	ABS3787	Urea spraying to ryegrass; manipulation of dietary crude protein concentrations for ruminants' nutrition <i>Mr. Hassan Khanaki, The University of Melbourne, Australia</i>
9:15-9:30	ABS3811	Computer vision-based techniques for cow object recognition <i>Dr. Rotimi-Williams Bello, Universiti Sains Malaysia, Malaysia</i>
9:30-9:45	ABS3796	Combination of biofloc technology and different feeding level on growth performance and survival rate of giant gourami (<i>osphronemus goramy</i>) <i>Miss Nina Nurmalia Dewi, Universitas Airlangga, Indonesia</i>
9:45-10:00	ABS3799	Prevalence, intensity and degree of ectoparasite infestation <i>argulus japonicus</i> and <i>lernaea cyprinacea</i> in common carp (<i>cyprinus carpio</i>) broodstock in Ngawi, East Java, Indonesia <i>Dr. Kismiyati, Universitas Airlangga, Indonesia</i>
10:00-10:20	BREAK	
10:20-10:35	ABS3771	Fluctuating asymmetry of common carp (<i>Cyprinus carpio</i>) in fish hatchery center of Kabat, Banyuwangi, Indonesia <i>Mr. Darmawan Setia Budi, Airlanngga University, Indonesia</i>
10:35-10:50	ABS3792	Evaluation of kombucha tea as a feed additive for improving the protein and lipid retention of African catfish (<i>Clarias gariepinus</i>) <i>Miss Hapsari Kenconoajati, Airlanngga University, Indonesia</i>
10:50-11:05	ABS3871	Photoperiod and Pubertal onset: regulatory roles of kisspeptin and melatonin in common carp (<i>Cyprinus carpio</i>). <i>Miss Bhatt Himadri, Navrachana University, India</i>
11:05-11:20	ABS3717	Sub-clinical endometritis associated alteration in uterine haemodynamics and serum inflammatory markers and its impact on reproductive performance of dairy cows after parturition <i>Dr. Akshay Sharma, Dr. G.C. Negi College of Veterinary and Animal Sciences, India</i>

11:20-11:35	ABS3776	Antibiogram and diversity of extended-spectrum beta-lactamase genes in scavenging local chicken in Morogoro Municipality, Tanzania <i>Mr. Emmanuel Odartei Armah, Water Research Institute, Ghana</i>
11:35-11:50	ABS3777	A Review on molecular characterization of Methicillin-resistant Staphylococcus aureus (MRSA) from animals and their relationship with humans <i>Dr. V. Jayalakshmi, Rajiv Gandhi Institute of Veterinary Education and Research, India</i>
11:50-12:05	ABS3789	MicroRNAs and their role in silkworm-virus interactions <i>Dr. Chandra Pal Singh, University of Rajasthan, India</i>

Session 4_ Food Science and Technology

Session Time: 14:00-18:35 August 10th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

Session Chair: Prof. Pierluigi Plastina, University of Calabria, Italy

14:00-14:15	ABB1180	Multiplex PCR assays in the authentication of food products: Design, optimization, and applications <i>Dr. M. A. Motalib Hossain, University of Malaya, Malaysia</i>
14:15-14:30	ABS3917	On-package smart sensing labels and application in aquatic products <i>Assoc. Prof. Xiuying Liu, Bohai University, China</i>
14:30-14:45	ABS3786	Free radical scavenging activity, anti-tyrosinase and anti-elastase activities of <i>Buchanania siamensis</i> leaf extracts <i>Dr. Boonyadist Vongsak, Burapha University, Thailand</i>
14:45-15:00	ABB1226	Poly(cyclodextrin-ionic liquid) based ferrofluid: A new class of magnetic colloid for dispersive liquid phase microextraction of polycyclic aromatic hydrocarbons from food samples prior to GC-FID analysis <i>Dr. Muggundha Raoov, University of Malaya, Malaysia</i>
15:00-15:15	ABS3920	Synergistic mechanism of starch-fatty acid complexes on gel properties of surimi <i>Assoc. Prof. Hongbo Mi, Bohai University, China</i>
15:15-15:30	ABS3800	The effect of washing and storage on the quality gel surimi of catfish (<i>clarias</i> sp.) <i>Miss Dwitha Nirmala, Airlangga University, Indonesia</i>
15:30-15:45	ABB1220	Development of edible bird's nest glycoprotein hydrolysates through enzymatic hydrolysis and its dehydration method <i>Dr. Seng Joe Lim, Universiti Kebangsaan Malaysia, Malaysia</i>
15:45-16:00	ABS3876	Nitrates/Nitrites in animal-based food — risk and benefits <i>Assoc. Prof. Malgorzata Karwowska, University of Nature in Lublin, Poland</i>
16:00-16:15	ABS3919	Heating uniformity of packaged powdered infant formula milk by combined radio frequency and hot-air treatments <i>Dr. Yawen Lin, Bohai University, China</i>
16:15-16:30		BREAK
16:30-16:50	ABS3686 (Invited)	Lipophenols from olive plant: occurrence and properties <i>Prof. Pierluigi Plastina, University of Calabria, Italy</i>
16:50-17:05	ABS3820	Glycemic index of starchy crops and factors affecting its digestibility <i>Dr. Milan Kumar Lal, ICAR-Central Potato Research Institute, India</i>
17:05-17:20	ABB1237	Optimization of volatile compounds in the crust of whole meal wheat bread using dynamic headspace extraction (DHE) <i>Dr. Nor Qhairul Izzreen, University Malaysia Sabah, Malaysia</i>

17:20-17:35	ABB1175	Deciphering molecular and biochemical basis for vitamin E content and composition for nutritional security. <i>Dr. Vinutha T Gowda, Govertment of India, India</i>
17:35-17:50	ABS3798	Effect of strain on the meat quality traits of broiler chicken in the humid tropics <i>Dr. Adelodun O. Fadare, Adekunle Ajasin University, Nigeria</i>
17:50-18:05	ABB1274	A systematic review on potential application of bacteriocin as a novel food preservative <i>Dr. Desalegn Amenu, Wollega University, Ethiopia</i>
18:05-18:20	ABS3687	Impact of ultrasonication on stability of citrus peel extract within water-in-oil emulsion (W/O): Optimization through Response surface methodology <i>Dr. Jyoti Nishad, University of Delhi, India</i>
18:20-18:35	ABS3746	Concept of green chemistry for cassava flour chain: Xylooligosaccharides starch-based materials, and glycolipids - mannosileritritol lipids <i>Dr. Cristiano José de Andrade, Federal University of Santa Catarina, Brazil</i>

Session 5_ Biological Science and Applied Biotechnology

Session Time: 14:00-18:15 August 10th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABB2021>

Session Chair: Dr. Lidia Nicola, University of Pavia, Italy

14:00-14:15	ABB1222	Discovery of bioactive peptides and protein hydrolysates with health-promoting potential <i>Dr. Tsun-Thai Chai, Universiti Tunku Abdul Rahman, Malaysia</i>
14:15-14:30	ABB1225	Amberinone, a new guaianolide from <i>Amberboa ramosa</i> <i>Dr. Muhammad Ibrahim, University of Karachi, Pakistan</i>
14:30-14:45	ABS3673	Application and research of microporous spectrophotometer in breaking the sporoderm of <i>Ganoderma lucidum</i> spores by enzymatic hydrolysis combined with physical actuation <i>Prof. Yan Liu, Shanghai Jiaotong University, China</i>
14:45-15:00	ABB1194	Bioactivity aspect of the Keggin-type heteropoly compounds in bulk and composites <i>Prof. Snezana Uskokovic-Markovic, University of Belgrade, Serbia</i>
15:00-15:15	ABB1173	New developments of an old technique: micropipette aspiration <i>Assoc. Prof. Gustavo Plaza, Universidad Politécnica de Madrid, Spain</i>
15:15-15:30	ABS3733	Multibioactive candidates driving several healing biological activities from selected plant species serving as both food and phytoanthelmintics <i>Dr. Sylvester W. Fomum, University of KwaZulu-Natal, South Africa</i>
15:30-15:45	ABB1209	Deciphering carbohydrate metabolism through a genotype-phenotype association study of 56 lactic acid bacteria genomes <i>Dr. Gemma Buron Moles, Toulouse Biotechnology Institute, France</i>
15:45-16:00		BREAK
16:00-16:20	ABB1232 (Invited)	Cell instructive liquid crystalline networks for myotube formation <i>Dr. Camilla Parmeggiani, University of Florence, Italy</i>
16:20-16:35	ABB1203	Cap-binding signatures in trypanosomatid eIF4Es <i>Dr. Supratik Das, Translational Health Science and Technology Institute, India</i>
16:35-16:55	ABB1255 (Invited)	Diversity-oriented synthesis of sp ³ -rich molecular scaffolds as a tool for chemical genetics <i>Prof. Andrea Trabocchi, University of Florence, Italy</i>
16:55-17:10	ABB1266	Integrated physiological and comparative proteomics analysis of xero-halophyte <i>Atriplex</i> reveals underlying salt stress tolerance mechanisms <i>Dr. Shweta Jha, J.N.V. University, India</i>

17:10-17:25	ABB1229	Plant natural products with anti-thyroid cancer activity <i>Prof. Raffaele Pezzani, University of Padova, Italy</i>
17:25-17:45	ABB1246 (Invited)	Evaluation of the potential of Trichoderma strains in the bioremediation of hydrocarbon complex mixtures <i>Dr. Lidia Nicola, University of Pavia, Italy</i>
17:45-18:00	ABB1178	Molecular mechanisms of fungicide-related abnormal sterols on membrane traffic <i>Dr. Agustin Hernandez, Federal University of São Carlos, Brazil</i>
18:00-18:15	ABB1213	Autonomous system to manufacture 3D printed catalytic microreactors <i>Dr. Harrison Santana, University of Campinas, Brazil</i>

Session 6_ Agriculture, Pest Control, Climate Change and Sociology

Session Time: 08:30-12:40 August 11th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

Session Chair: Associate Prof. Ruimin Fu, Henan Finance University, China

8:30-8:45	ABS3891	Evolutionary ecology of pests to Bt plants and insecticides: simulations of resistance evolution risk <i>Dr. José Bruno Malaquias, UNESP IBB, Brazil</i>
8:45-9:00	ABS3832	The relevance of taxonomy in agroecological studies on pests. The case of <i>Oebalus</i> species in Neotropical rice fields <i>Dr. Daniela Fuentes, CECOAL-CONICET-UNNE, Argentina</i>
9:00-9:15	ABS3874	Ethical aspects related to the harvesting, of wild edible insects <i>Dr. Guiomar Melgar Lalanne, Universidad Veracruzana, Mexico</i>
9:15-9:30	ABS3863	Market opportunities: satisfying consumer ee <i>Dr. Herbert Stone, Zhejiang Gongshang University, China</i>
9:30-9:50	ABS3794 (Invited)	Use of precision agriculture technology to improve the estimation of livestock greenhouse gas emissions <i>Dr. Paul Cheng, The University of Melbourne, Australia</i>
9:50-10:05	ABB1177	Precision biotechnology for tropical plant improvement <i>Assoc. Prof. Hoe-Han Goh, Universiti Kebangsaan Malaysia, Malaysia</i>
10:05-10:20	ABS3803	Vulnerability and efficiency of land productivity to unsuitable climatic conditions <i>Miss Ummu Marufah, IPB University, Indonesia</i>
10:20-10:30	BREAK	
10:30-10:45	ABS3759	Effects of integrated farming system and rainwater harvesting on livelihood improvement in North-Eastern region of India compared to traditional shifting: evidence from an action research <i>Dr. Sanjay Kumar Ray, ICAR Research Complex for NEH Region, India</i>
10:45-11:00	ABS3706	To the dismay of the landlord, small mammal communities in orchards and homesteads <i>Dr. Linas Balčiauskas, Nature Research Centre, Lithuania</i>
11:00-11:20	ABS3688 (Invited)	SQual4Agri, a hybrid and multidimensional conceptual model as a step toward improvement in small family based agricultural organization. <i>Prof. Margarida Saraiva, University of Évora and BRU-UNIDE/ISCTE-IUL, Portugal</i>
11:20-11:35	ABS3749	Farm-household innovation in a changing policy world <i>Dr. Terry McFadden, University College Dublin, Ireland</i>
11:35-11:50	ABS3767	Benchmarking contexts between the agricultural realities of China and the European Union <i>Dr. Vitor Martinho, Polytechnic Institute of Viseu, Portugal</i>

11:50-12:10	ABB1169 (Invited)	SABANA project: Demonstrating the application of microalgae in agriculture and aquaculture <i>Dr. Gabriel Acien, University of Almería, Spain</i>
12:10-12:25	ABS3805	Symbiotic performance and seed yield of four cowpea (<i>Vigna unguiculata</i> L. Walp) varieties in response to <i>Bradyrhizobium</i> inoculation under field conditions in the tropical environment <i>Dr. Tewodros Ayalew, Hawassa University, Ethiopia</i>
12:25-12:40	ABS3724	Genetically modified crops: current status and future prospects <i>Dr. Krishan Kumar, ICAR - Indian Institute of Maize Research, India</i>

Session 7_ Environmental Control and Green Technology

Session Time: 08:30-11:55 August 11th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABB2021>

Session Chair: Dr. Teow Yeit Haan, Universiti Kebangsaan Malaysia, Malaysia

8:30-8:45	ABB1261	Use of different coagulants for cassava processing wastewater treatment <i>Dr. Jordana Dorca dos Santos, Universidade Federal do Paraná R. Pioneiro, Brazil</i>
8:45-9:00	ABB1210	Statistical modelling-approach for optimization of rare-earth elements biosorption using an alginate matrix <i>Dr. Ellen Giese, CETEM, Brazil</i>
9:00-9:15	ABB1171	Sustainable strategies for the analysis of plastic migrants in food and environmental samples using natural hydrophobic deep eutectic solvents <i>Dr. Bárbara Socas Rodríguez, Institute of Food Science Research, Spain</i>
9:15-9:30	ABB1201	Degradation of antibiotics by immobilized laccase on clay and biochar <i>Dr. Carlos García-Delgado, Autonomous University of Madrid, Spain</i>
9:30-9:45	ABB1256	Green technology in action: integrated zero waste solution for palm oil mill effluent treatment <i>Dr. Teow Yeit Haan, Universiti Kebangsaan Malaysia, Malaysia</i>
9:45-10:00	ABB1223	Computational studies on adsorption of dinitrogen over the group 8 metal borazine <i>Dr. Thayalaraj Christopher Jeyakumar, The American College, India</i>
10:00-10:20	ABB1170 (Invited)	Rhamnolipid production by autochthonous pseudomonas aeruginosa L12 (MTCC 10462) isolated from detergent contaminated soil <i>Dr. Jisha M S, Mahatma Gandhi University, India</i>
10:20-10:30	BREAK	
10:30-10:45	ABB1252	Effect of additional nutrients on bio-methane production from anaerobic digestion of farming waste: Feasibility & Fertilizer recovery <i>Dr. Md Nurul Islam Siddique, University Malaysia Terengganu, Malaysia</i>
10:45-11:00	ABB1234	Effective removal of heavy metal ions from water using electrospun polymeric nanofibers <i>Prof. Sangeeta Tiwari, Amity University, India</i>
11:00-11:20	ABB1268 (Invited)	Removal of toxic phenol from wastewater using natural bio-adsorbent neem leaves <i>Dr. Ashanendu Mandal, University of Calcutta, India</i>

11:20-11:35	ABS3873	A preliminary study on spatial assessment using conservation metrics for intertidal oyster reefs at the Hab River mouth in Pakistan <i>Dr. Sadar Aslam, University of Karachi, Pakistan</i>
11:35-11:55	ABS3903 (Invited)	Diversity and seasonal dynamics of bioaerosols in capital city <i>Prof. Md. Abdul Karim, University of Dhaka, Bangladesh</i>

Session 8_ Medical Biology and Pharmacology

Session Time: 14:00-18:45 August 11th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABS2021>

Session Chair: Dr. Ulf Schmitz, University of Sydney, Australia

14:00-14:15	ABB1253	Neuropharmacological evaluation of daidzin in a rat model of traumatic brain injury <i>Dr. Syeda Mehpara Farhat, National University of Medical Sciences, Pakistan</i>
14:15-14:30	ABB1224	Microglial DOCK8 and neurodegeneration <i>Dr. Atsuko Kimura, Tokyo Metropolitan Institute of Medical Science, Japan</i>
14:30-14:45	ABB1217	Metabolomics-genomics analyses on the complexity of serum metabolites in Ips-induced neuroinflamed rats treated with clinacanthus nutans aqueous <i>Assoc. Prof. Intan Safinar binti Ismail, Universiti Putra Malaysia, Malaysia</i>
14:45-15:00	ABS3730	Hydroalcoholic extract of Phyllanthus emblica provides anti-oxidation and protection against high sugar induced toxicity in cultured mesangial cell lines <i>Dr Badrinathan Sridharan, Chaoyang University of Technology, China</i>
15:00-15:15	ABB1269	New insights into the catalytic mechanism of CyaC, an acyltransferase that activates Bordetella pertussis CyaA pore-forming toxin <i>Dr. Niramon Thamwiriyasati, Burapha University, Thailand</i>
15:15-15:30	ABB1183	Cell death induction in 2D and 3D prostate cancer models through green nanoparticles synthesized from Stephania glabra <i>Dr. Reena V Saini, Maharishi Markandeshwa, India</i>
15:30-15:45	ABB1242	The protective effect of fucoxanthrin on human placenta-derived mesenchymal stem cells <i>Assoc. Prof. Sirikul Manochantr, Thammasat University, Thailand</i>
15:45-16:00	ABB1197	Quantitative bio-analysis of Pitavastatin and Candesartan in rat plasma by HPLC-UV: Assessment of pharmacokinetic drug-drug interaction <i>Dr. Charmy Kothari, Nirma University, India</i>
16:10-16:10		BREAK
16:10-16:25	ABB1215	Omega-3 fatty acids ameliorate acetaminophen-induced hepatic and renal toxicity through HO-1-Nrf-2-BACH1 pathway <i>Dr. Salma Mossad Eraky, Mansoura University, Egypt</i>
16:25-16:40	ABB1182	Cooperating microRNAs as adjuvants in cancer therapy - a systems medicine approach <i>Dr. Ulf Schmitz, University of Sydney, Australia</i>

16:40-17:00	ABB1233 (Invited)	Gray-level co-occurrence matrix method for detection of physiological alterations in chromatin organization and distribution <i>Prof. Igor Pantić, University of Belgrade, Serbia</i>
17:00-17:15	ABB1230	Xanthan-based polysaccharide/protein nanoparticles for the encapsulation of curcumin <i>Dr. Aristeidis Papagiannopoulos, Theoretical and Physical Chemistry Institute, Greece</i>
17:15-17:30	ABS3865	Hepatic differentiation of stem cells in 3D scaffold <i>Dr. Kanwal Haneef, University of Karachi, Pakistan</i>
17:30-17:45	ABS3916	Carbon dots-releasing hydrogels with antibacterial activity, high biocompatibility, and fluorescence performance as candidate materials for wound healing <i>Dr. Fangchao Cui, Bohai University, China</i>
17:45-18:00	ABB1273	The nuclear translocation of ERK as a therapeutic target for cancer <i>Prof. Rony Seger, The Weizmann Institute of Science Israel, Israel</i>
18:00-18:15	ABS3826	In vitro characterization of trypsin-like serine protease inhibitors with potential antiviral effect <i>Dr. Erzsébet Gere-Pászti, University of Veterinary Medicine, Hungary</i>
18:15-18:30	ABB1202	Telomerase activation in the treatment of aging or degenerative diseases: a systematic review <i>Dr. Paula Prieto-Oliveira, Federal University of São Paulo, Brazil</i>
18:30-18:45	ABB1236	Interaction of commonly used oral molecular excipients with p-glycoprotein <i>Dr. Ruchika Bajaj, University of California San Francisco, USA</i>

Session 9 _ Industrial Applied Biotechnology

Session Time: 14:00-18:20 August 11th, 2021 China Standard Time (UTC/GMT+8:00)

Session Room Link: <http://www.academicconf.com/teamslink?confname=ABB2021>

Session Chairs:

14:00-16:00: Dr. Fengzheng Gao, Wageningen University, Netherlands

16:00-18:20: Prof. Md. Abdul Karim, University of Dhaka, Bangladesh

14:00-14:15	ABB1196	A novel spectrophotometric digoxin aptasensor based on gold nanoparticles electrodeposition onto a fluorine doped tin oxide (FTO) surface and mercapto-benzaldehyde self-assembling <i>Dr. Rasoul Pourtaghavi Talemi, Kharazmi University, Iran</i>
14:15-14:30	ABB1185	Production of hydrophobins from white rot fungus <i>pleurotus ostreatus</i> <i>Miss Shraddha Suyog Kulkarni, Sinhgad College of Engineering, India</i>
14:30-14:45	ABB1172	Deep eutectic solvents-halophilic cellulase system for an efficient route of <i>in situ</i> lignocellulosic saccharification <i>Dr. Ahmad Anas Nagoor Gunny, Universiti Malaysia Perlis, Malaysia</i>
14:45-15:00	ABB1265	Protein extraction and purification in a mesoscale column operating with semi pulsatile flow and air damper <i>Dr. Abir Chakravorty, Indian Institute of Technology Kharagpur, India</i>
15:00-15:15	ABB1244	<i>Convolvulus microphyllus</i> extract as an economical and efficient corrosion bio-inhibitor for mild steel <i>Dr. Dwarika Prasad, Shri Guru Ram Rai University, India</i>
15:15-15:35	ABB1249 (Invited)	Improving transferases for industrial applications via protein engineering <i>Prof. Ioannis Pavlidis, University of Crete, Greece</i>
15:35-15:50	ABB1241	Food waste valorization by co-fermentation for bioethanol production <i>Dr. Alessia Tropea, University of Messina, Italy</i>
15:50-16:00	BREAK	
16:00-16:15	ABB1267	Biocrystallization with Nano-template and Bio-template <i>Dr. Huaiyu Yang, Loughborough University, UK</i>
16:15-16:30	ABB1271	Chili post-harvest residue biorefinery <i>Dr. Raveendran Sindhu, CSIR-National Institute for Interdisciplinary Science and Technology, India</i>
16:30-16:45	ABS3782	Identification of a potent inhibitor of type II secretion system from <i>Pseudomonas aeruginosa</i> <i>Dr. Wieslaw Swietnicki, Laboratory of Medical Microbiology, USA</i>
16:45-17:00	ABS3723	Isolation of cellulase producing bacteria from termite gut and application in paper and pulp industry <i>Dr. Shiwani Guleria Sharma, Punjab Agricultural University, India</i>

17:00-17:15	ABS3740	Oleuropein contents in <i>Olea europaea</i> L. leaves collected from the Sahara of Algeria <i>Dr. Ahlem Tlili, University of Ouargla, Algeria</i>
17:15-17:30	ABS3790	Can fucoxanthin be the next commercial microalgal product? <i>Dr. Fengzheng Gao, Wageningen University, Netherlands</i>
17:30-17:45	ABB1206	Electrohydrodynamic encapsulation of resveratrol using food-grade nanofibres: process optimization, characterization and fortification <i>Miss Seethu B G, ICAR-National Dairy Research Institute, India</i>
17:45-18:05	ABB1228 (Invited)	The mechanisms of the Fenton & Fenton like reactions <i>Dr. Dan Meyerstein, Ben-Gurion University, Israel</i>
18:05-18:20	ABS3885	Biomass production of <i>mastigocladus</i> (cyanobacteria) HS-46 in bold basal medium and NPK medium to produce high lipid content <i>Dr. Nining Betawati Prihantini, Universitas Indonesia, Indonesia</i>

Part IV E-Poster Presentations

Online Poster Guidelines

- All E-Posters will be demonstrated on the official conference website.
- Participants could view and share their comments on the website. If any questions on E-posters, kindly contact conference secretary for assistance.
- Signed and stamped electronic presentation certificate would be issued via e-mail after the presentation is delivered.

List of Posters

Please click paper ID to Access to the E-posters.

ABS3718	Environmental factors regulating <i>Cenchrus spinifex</i> seed germination <i>Dr. Fernando H. Oreja, University of Buenos Aires, Argentina</i>
ABS3728	Assessment of the potential environmental and ecological risks associated with traffic induced heavy metal contamination in country parks of Hong Kong <i>Dr. Ngai King Wah, Technological and Higher Education Institute of Hong Kong, China</i>
ABS3776	Antibiogram and diversity of extended-spectrum beta-lactamase genes in scavenging local chicken in Morogoro Municipality, Tanzania <i>Mr. Emmanuel Odartei Armah, Water Research Institute, Ghana</i>
ABS3801	Antioxidant activities of Chinese medicinal plants and its effect against high glucose-induced modulation of fibronectin expression <i>Dr. Badrinathan Sridharan, Chaoyang University of Technology, China</i>
ABS3802	Effect of andrographolide on the pathological events during surgical open wound healing process <i>Dr. Badrinathan Sridharan, Chaoyang University of Technology, China</i>
ABB1211	Buffalo (<i>Bubalus bubalis</i>) whey proteins conformational changes induced by vitamin B9 binding <i>Dr. Franco Emanuel, Universidad Nacional del Chaco Austral, Argentina</i>
ABB1240	Medical microbiological experiment-experimental design of anaerobic culture <i>Dr. Hongjian Gong, Fourth Clinical Medical College affiliated to Capital Medical University, China</i>
ABB1270	Lignin-modifying enzymes production by agricultural residues as alternative nutrient source <i>Dr. Carolyn Palma, Universidad Técnica Federico Santa María, Chile</i>
ABS3899	Deciphering the recombinant thermostable phosphatidylcholine-specific phospholipase C activity from <i>Bacillus thuringiensis</i>: biochemical and interfacial properties <i>Dr. Zied Zarai, University of Sfax, Tunisia</i>
ABB1257	Biodegradation of hormones in effluents by bacterial cultures encapsulated in 3D hollow capsules <i>Dr. Eyal Kurzbaum, University of Haifa, Israel</i>

Part V Acknowledgements

On behalf of the ABS/ABB 2021 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 acknowledgements 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 the name here, we would love to say thanks as well.

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