



“Plant productivity and food safety:

Soil science, Microbiology, Agricultural Genetics and Food quality”

Conference Schedule

15-16.09.2022

Link to the book of abstracts:

https://umkt-my.sharepoint.com/:f:/g/personal/dariach_o365_umk_pl/EIJD5GZAZTdDp29nCKxqhNcBkQwLfgWEVIAphRQFi0Vllw?e=isuDSB

| 1st day 15.09.2022 | | | |
|---|--|--|--------------|
| | Presenter | Title of presentation | Time* |
| Time for connecting with participants Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_Y2Q4NDRmZmItY2ZiNS00Y2I0LThkOTEtMzdjYjlkMjdIOWJl%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfca324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d | | | 9:00-9:25 |
| Open Talk | | | 9:25-9:30 |
| Keynote Speaker | Prof. Martin Bidartondo Imperial College London & Royal Botanic Gardens, Kew | <i>Belowground change: past, present and future.</i> | 9:30-10:00 |
| Session I | | | |
| Title: Plant-microbial interactions in agriculture and ecosystem management | | | |

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| Session Chair: Katarzyna Hryniewicz Session Organizers: Bliss Furtado | <u>Carolyn Schneider</u> , Louis Mercy | <i>Use of biostimulating mycorrhizal fungi in agriculture.</i> | 10:00-10:30 |
| | <u>Philipp Franken</u> , Julia Brandes, Shubhangi Sharma, Alicia Varela Alonso, Katja Burow | <i>Microorganisms in horticultural production: Challenges and Chances.</i> | 10:30 – 11:00 |
| | <u>Bliss U. Furtado</u> , Katarzyna Hryniewicz, Urszula Jankowska, Bożena Skupien-Rabian | <i>Deciphering the fungal endophyte proteome at increasing salt concentrations.</i> | 11:00 – 11:15 |
| | <u>Eric C. Pereira</u> , Beatriz R. Vázquez de Aldana, Juan B. Arellano, Iñigo Zabalgogea | <i>Festuca rubra subsp. pruinosa, a source of beneficial fungal endophytes.</i> | 11:15-11:30 |
| | Mervat A. Hamza, Hanan H. Youssef , Amal A. Othman, Helmy T. El-Zanfaly, Mohamed Fayez, Silke Ruppel and <u>Nabil A. Hegazi</u> | <i>Microbial quality assessment of field-grown Fenugreek under Egyptian farming conditions, with particular emphasis on the ecology of Escherichia coli.</i> | 11:30- 11:45 |
| | <u>Christel Baum</u> , Johanna Bremer, Kai-Uwe Eckhardt, Peter Leinweber | <i>Changes of root chemistry and formation of root symbioses during Trifolium sickness.</i> | 11:45 – 12:00 |
| | Discussion to short presentations | | 12:00-12:15 |
| | Break | | 12:15 - 12:30 |
| | Short video presentations – Session I | | |
| | <u>Rostam Yazdani-Biouki</u> , Hossein Kari-Dolatabad, Farhad Dehghani, Mohammad Hossein Banakar, Hadi Pirasteh-Anooshe, Hossein Beyrami, Amir Parnian | <i>Evaluation of the salinity tolerance of Fungal species.</i> | 12:30:12:33 |
| | <u>Piotr Koczorski</u> , Bliss Ursula Furtado, Piotr Hulisz, Christel Baum, Martin Weih, Katarzyna Hryniewicz | <i>Selection and influence of P solubilizing microorganisms on growth and development of willow cuttings in pot experiment</i> | 12:33-12:36 |
| | <u>Mariusz Wróbel</u> , Sonia Szymańska, Tomasz Kowalkowski, Katarzyna Hryniewicz | <i>Acquisition of microorganisms capable of polyethylene (PE) and polypropylene (PP) degradation</i> | 12:36:12:39 |
| Poster Session I – Possibility to see the posters and discuss with poster authors | | | 12:40 - 13:10 |

Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODJjYjNiZTktN2Q5YS00OGExLThmZmUtYzI5ZmI2MTM2NDIz%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfa324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d

Posters in PDF:
https://umkt-my.sharepoint.com/:f/g/personal/dariach_o365_umk_pl/EuFR-Dxuh9JLtNNxVzpXNVEBHursYIWOpSv-Mu3_cRZGvg?e=M5Iz38

Session II Title: Bio-based products and nanotechnologies for food safety and sustainable agriculture

Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_Y2Q4NDRmZmItY2ZiNS00Y2IOLThkOTEtMzdjYjlkMjdlOWJl%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfa324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d

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| <p>Session Chair: Patrycja Golińska</p> <p>Session Organizers: Magdalena Wypij, Magdalena Świecimska</p> | <p>Prof. Michelle Hubbard, Russell K Hynes, <u>Karen L Bailey</u> Agriculture and Agri-Food Canada (AAFC) Swift Current Research and Development Centre, Swift Current, SK, Canada.</p> | <p><i>Weed biocontrol by the fungus Phoma macrostoma.</i></p> | 13:10 – 13:40 |
| | <p>Prof. Amedea B. Seabra Center for Natural and Human Sciences (CCNH), Federal University of ABC (UFABC), Santa Terezinha, Santo André, SP, Brazil.</p> | <p><i>Nitric oxide-releasing nanoparticles in agriculture: recent progress and perspectives.</i></p> | 13:40 14:10 |
| | <p>Romina Giacometti, Instituto de Investigaciones en Biociencias Agrícolas y Ambientales. Facultad de Agronomía, Universidad de Buenos Aires</p> | <p><i>Taking advantage of nanotechnology as a cutting-edge approach towards smart and sustainable agriculture.</i></p> | 14:10 – 14:25 |
| | <p>Akshay Pete, Pramod Ingle, Rajesh Raut, Sudhir Shende Mahendra Rai, Aniket Gade</p> | <p><i>Biological synthesis of fluorescent carbon dots and their effect on germinating Vigna radiata (L.) seeds.</i></p> | 14:25 – 14:40 |
| | <p>Joanna Trzcińska-Wencel, Magdalena Wypij, Bartosz Wachnowicz, Mahendra Rai, Patrycja Golińska</p> | <p><i>Mycosynthesis of metal-based nanoparticles and evaluation of their potential as antimicrobial agents for crop protection.</i></p> | 14:40- 14:55 |

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| | Hafiz Muhammad Saleem Akhtar , Ewa Olewnik-Kruszkowska, Magdalena Gierszewska, Maria Swiontek Brzezinska, Agnieszka Kalwasińska | <i>CMC-based edible packaging film preparation and characterization.</i> | 14:55 – 15:10 |
| | Aidana Rysbek , Askar Kurmanbayev, Urszula Jankiewicz, Agnieszka Richert | <i>Microbiological preparation of polyhydroxybutyrate (PHB) when irradiated with ultraviolet light.</i> | 15:10 – 15:25 |
| | Discussion to short presentations | | 15:25 – 15:40 |
| | Short video presentations – Session II | | |
| | Bartosz Wachnowicz , Magdalena Świecimska, Patrycja Golińska, Michael Goodfellow | Streptomyces pinistramenti, sp. nov. as a potential biocontrol agents against phytopathogens. | 15:40-15:43 |
| | Federico N. Spagnoletti , Romina Giacometti, | <i>Use of biogenic silver nanoparticles to control bacterial blight in soybean.</i> | 15:43 – 15:46 |
| Poster Session II – Possibility to see the posters and discuss with poster authors Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmYwNGNhNDUtZjRmYi00NjUyLWI0Y2QtODlhZDY4ZTdjNDIz%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfca324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d | | | 15:50-16:10 |
| Posters in PDF: https://umkt-my.sharepoint.com/:f:/g/personal/dariach_o365_umk_pl/EuFR-Dxuh9JLtNNxVzpXNVEBHursYIWOpSv-Mu3_cRZGvg?e=M5Iz38 | | | |
| 2nd day 16.09.2022 | | | |
| Session III | Title: Plant and algal lipids as advanced feedstock for biofuels and feed | | |
| Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzM5MTYyYzQtOGNhOS00NGRiLTk5MGYtOGIyOTAzOWY4NzVh%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfca324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d | | | |

| Time for connecting with participants | | 8:00-8:30 | |
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| Session Chair: Agnieszka Zienkiewicz Session Organizer: | Zhi-Yan (Rock) DU Assistant Professor, Department of Molecular Biosciences & BioEngineering, University of Hawaii | <i>Co-production of high-value biomaterials using algae-fungi symbiotic systems.</i> | 8:30 – 9:00 |
| | Dr. Juan de Dios Alché Ramírez Estacion Experimental del Zaidin. CSIC, Granada Spain | <i>Holistic analyses of olive tree industrial byproducts: from functions in plant physiology to their application in food quality and safety.</i> | 9:00 - 9:30 |
| | Kamil Demski , Bao-Jian Ding, Hong-Lei Wang, Ida Lager, Tam N.T. Tran, Timothy P. Durrett, Ida Lager, Christer Löfstedt, Per Hofvander | <i>Production of Insect Sex Pheromones in Plant Wax Esters for Food Protection.</i> | 9:30 - 9:45 |
| | Marta Saldat , Agnieszka Zienkiewicz, Krzysztof Zienkiewicz | <i>Diacylglycerol acyltransferases (DGATs) from the model green microalga Nannochloropsis oceanica not equally restore triacylglycerol synthesis in yeast TAG-deficient mutant H1246.</i> | 9:45- 10:00 |
| | Vipul Swarup Bhatnagar , Agnieszka Zienkiewicz, Krzysztof Zienkiewicz | <i>Neutral lipids synthesis in response to diverse abiotic stress factors in Nannochloropsis oceanica CCMP1779.</i> | 10:00 – 10:15 |
| | Discussion to short presentations | | 10:15– 10:30 |
| | Short video presentations – Session III | | |
| | Tomasz Gulanicz , Ewa Klugier-Borowska , Krzysztof Zienkiewicz , and Agnieszka Zienkiewicz ¹ | <i>Characterization of TAG synthesis and lipid droplet formation in B. distachyon.</i> | 10:30- 10:33 |
| | Pattarapong Inhana , Agnieszka Zienkiewicz | <i>Comparison of molecular machinery of sphingolipid metabolism between Arabidopsis thaliana and Brachypodium distachyon.</i> | 10:33: 10:36 |
| Poster Session III – Possibility to see the posters and discuss with poster authors Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTU0NWlwZjgtYjZmYi00ZWU3LWJkODctZGVkOTAxMGNmZDUx%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfca324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d Posters in PDF: https://umkt-my.sharepoint.com/:f/g/personal/dariach_o365_umk_pl/EuFR-Dxuh9JLtNNxVzpXNVEBHursYIWOpSv-Mu3_cRZGvg?e=M5Iz38 | | 10:40 -11:00 | |

| Session IV Title: Current status and future developments in food sciences | | | |
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| Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzM5MTYyYzQtOGNhOS00NGRiLTk5MGYtOGIyOTAzOWY4NzVh%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfca324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d | | | |
| Session Chair: Aleksandra Szydłowska-Czerniak Session Organizer: Dobrochna Rabiej-Kozioł | <u>Odile Chambin</u> , Sylvie Moundanga, Sébastien Dupont, Rania Allouche, Nina Zupan, Susanne Muschert, Mand Laurent Beney | <i>Soft-tableting: a mean to increase stability of probiotics.</i> | 10:30-11:00 |
| | <u>Prof. Mohamed BOUAZIZ</u> Higher Institute of Biotechnology, University of Sfax, Tunisia | <i>Effects of Climate change on Olive Oil Quality of Tunisian olive cultivars.</i> | 11:00 -11:30 |
| | <u>Prof. Thomas Karbowski</u> Institut Agro Dijon, France | <i>The challenges of sustainable food packaging.</i> | 11:30- 12:00 |
| | <u>Dobrochna Rabiej-Kozioł</u> , Weronika Mosakowska, Aleksandra Szydłowska-Czerniak | <i>Effect of sinapic acid alkyl esters on quality of fried rapeseed oil.</i> | 12:00- 12:10 |
| | <u>Emilia Szablowska</u> , Małgorzata Tańska, Dorota Derewiaka | <i>Effect of acorn flour on the quality and volatile compounds profile of wheat and gluten-free shortbread cookies.</i> | 12:10 -12:20 |
| | <u>Alicja Tymczewska</u> , Julia Klebba, Aleksandra Szydłowska-Czerniak | <i>Ultrasound-assisted extraction of antioxidant compounds from spices using deep eutectic solvents.</i> | 12:20- 12:30 |
| | Discussion to short presentations | | 12:30 -12:50 |
| | Short video presentation - Session IV | | |
| | <u>Ines Tarchi</u> , Alicja Tymczewska, Bliss U. Furtado, <u>Abderrahmane Aït-Kaddour</u> , Aleksandra Szydłowska-Czerniak, Mohamed Bouaziz | <i>Antioxidant Activity of Olive Leaf Extract.</i> | 12:50 -12:53 |

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| | Nour Ksibi , Edyta Symoniuk, Aleksander Siger, Anna Grygier, Malgorzata Wroniak, Katarzyna Ratusz, Moufida Saidani Tounsi | Effect of the microwave pretreatment on the quality of grape seed oil. | 12:53-12:56 |
| Poster Session IV – Possibility to see the posters and discuss with poster authors Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDVkYzlwMGUtMjY0Ni00ZWMOLThjYtAtNmZmNjYzZmY1NTc4%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfa324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d | | | 13:00 13:30 |
| Posters in PDF: https://umkt-my.sharepoint.com/:f:/g/personal/dariach_o365_umk_pl/EuFR-Dxuh9JLtNNxVzpXNVEBHursYIWOpSv-Mu3_cRZGvg?e=M5lz38 | | | |
| Break | | | 13:30:14:00 |
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| Session V Title: Agricultural and urban soils – towards sustainable use and management Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzM5MTYyYzQtOGNhOS00NGRiLTk5MGYtOGlyOTAzOWY4NzVh%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfa324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d | | | |
| Session Chair: Piotr Hulisz, Przemysław Charzyński Session Organizer: Sylwia Pindral | Dr. Francesca Bretzel Italian National Research Council, Roma, Italy | <i>Urban soil ecosystem services - Case studies from Italy.</i> | 14:00 -14:30 |
| | Dr. Anton Boman Geological Survey of Finland | <i>Acid sulfate soils in the urban and agricultural environment.</i> | 14:30-15:00 |
| | DanBi Lee , Kye-Hoon Kim, YeonKyu Sonn | <i>Use of Soil Survey for Agriculture and Urban Soils.</i> | 15:00-15:10 |
| | Seyedeh Elahe Hashemi , Shahb Maddah Hoseini | <i>Soil salinity monitoring under the influence of irrigation water salinity in a saffron field.</i> | 15:10-15:20 |
| | Agnieszka Piernik , Piotr Hulisz | <i>Effects of soil properties on vegetation pattern in natural and industrial salt-marsh habitats.</i> | 15:20-15:30 |

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| | Hossein Beyrami , Mohammad Reza Neyshabouri, Amir Hossein Nazemi Fariborz Abbasi, Hadi Pirasteh-Anousheh | <i>Effects of soil water repellency on water infiltration rate in saturated and unsaturated condition.</i> | 15:30-15:40 |
| | Hadi Pirasteh-Anosheh , Seyedeh Elahe Hashemi | <i>Using saline soil and water to cultivate halophytes for</i> | 15:40-15:50 |
| | Discussion to short presentations | | 15:50-15:55 |
| | Short video presentations – Session V | | |
| | Beata Kaczmarek-Szczepańska, Marta Michalska – Sionkowska, Katarzyna Dembińska , Olha Mazur, Joanna Świętczak, Maria Swiontek Brzezinska | <i>The role of microorganisms in biodegradation of chitosan/tannic acid materials.</i> | 15:55-15:58 |
| | Aleksandra Góralczyk-Bińkowska , Andrzej Długoński, Przemysław Bernat, Jerzy Długoński, Anna Jasińska | <i>Soil of dye industry landfill as a source of microorganisms capable of hazardous xenobiotics degradation.</i> | 15:58-16:01 |
| Poster Session V – Possibility to see the posters and discuss with poster authors | | | 16:01-16:20 |
| Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_YjgyMThhNmUtZGJlYi00NTczLTgyNjMtYjU5NGYxODVlODBm%40thread.v2/0?context=%7b%22Tid%22%3a%22e80a627f-ef94-4aa9-82d6-c7ec9cfa324%22%2c%22Oid%22%3a%2219336ef6-a516-47a7-9661-14aec0d85ff1%22%7d Posters in PDF: https://umkt-my.sharepoint.com/:f:/g/personal/dariach_o365_umk_pl/EuFR-Dxuh9JLtNNxVzpXNVEBHursYIWOpSv-Mu3_cRZGvg?e=M5lz38 | | | |
| Awarding and Closing Talk | | | 16:20-16:30 |
| 3rd day 17.09.2022 | | | |
| Workshop: „A GIS application for assessing, mapping, and quantifying the ecosystem changes” | | | 09:00-15:00 |

*Time Zone (GMT+1)