

ELLS ONLINE Scientific Student Conference 2021
"Green (r)evolution: from molecules to ecosystems"

Warsaw University of Life Sciences, Warsaw (SGGW)
19/20 November 2021

Final Schedule (from 16/11/21)

Venue: SGGW – Online Campus

Friday, 19 November 2021

Online Networking (optional)		
11:00-11:45	Workshop 1 by Maya Cygańska, <i>Doing what matters: career goals through the lense of effective altruism</i>	
12:30-13:00	Workshop 2 by Aleksandra Juszczuk, <i>How to make your stress an ally not an enemy?</i>	
13:00-13:10	Official Opening of the 13th ELLS Scientific Student Conference 2021 by Michał Zasada SGGW Rector	
13:10-13:45	Keynote Speech by professor Edyta Zawisza, <i>From zooplankton (Cladocera) to lake ecosystem reconstruction</i> (video invitation)	
13:45-14:45	Parallel Oral Sessions I	Subtheme Molecule chaired by Chirag Girdhar , From seed to plant 1. Trevisan Fabio (WUR), Carbon isotope fractionation in C4 and C3 plants subjected to nutrient deficiencies 2. Alexa-Maria Wangler (UHOH), Expression analysis of saponin biosynthesis genes in different tissues and developmental stages in <i>Chenopodium quinoa</i> 3. Tyminski Marcin (SGGW), Reactive oxygen species (ROS) involvement in seed ageing
		Subtheme Organism chaired by Charlotte Aue , Stressed plants 1. Ganga Raju Naveen Kumar (UHOH), Investigating physiological effects of abiotic stresses in 'sweet' and 'bitter' quinoa (<i>Chenopodium quinoa</i> Willd.) accessions 2. Chuang Edward (UHOH), The Phylogenomics of <i>Chenopodium quinoa</i> and related species 3. Magdalena Chądzyńska (SGGW), Application of ultrasound and pulsed electric field in the osmotic dehydration process of fruits and vegetables
		Subtheme Community chaired by Jette Breedijk , Save the plants! 1. Huber Sabine (BOKU), The impact of a combination of management practices on soil organic matter accumulation and soil fungal communities in a Hungarian maize cropping system 2. Fischbach Martine Ernestine (UHOH), Biological control of the early blight disease caused by the fungus <i>Alternaria solani</i> in tomato 3. López Carretero Pablo (SCIENCE), Hairy Mary: Mobility of two aphid predators as affected by plant surface and aphid attraction in medicinal cannabis
		Subtheme Ecosystem chaired by Tereza Otcova , Into the woods 1. Mathaess Paul (UHOH), The relation between infrastructure and extractivism of non-timber forest products in the southwestern Amazon 2. Rafał Rączka (SGGW), Deep learning for individual tree crown detection from UAV derived imagery in forest ecosystems 3. Suzy Rebisz (WUR), Comparing temporal changes in soil organic matter between a temperate zone food forest and a conventional farm in the Netherlands
14:45-15:45	Parallel Poster Sessions I	Subtheme Molecule chaired by Karl Schmid (UHOH) , Delicate relationships 1. Mikowska Karolina (SGGW), Effect of particulate matters on <i>Tetranychus urticae</i> feeding on <i>Tilia cordata</i> 2. Sarah de Roode (WUR), Nuclear competition in the Basidiomycete fungus <i>Schizophyllum commune</i> 3. Daria Wilim (SGGW), Identification of the ARSB gene mutation in different dogs breeds - analysis in silico 4. Griep Jet (WUR), The Chronicles of Narna: characterization of a newly discovered mosquito-associated narnavirus in the invasive Asian bush mosquito, <i>Aedes japonicas</i> 5. Heidinga Noortje (WUR), The role of systems consolidation in the differential effects of stress hormones on memory accuracy

		<p>Subtheme Organism chaired by Matthias Schreiner (BOKU), <i>From field to lab</i></p> <ol style="list-style-type: none"> 1. Matys Aleksandra (SGGW), Influence of ultrasound on color and antioxidant activity of mushrooms dried by various methods 2. Alicja Barańska (SGGW), Optimization of strawberry juice concentrate spray drying at high and low temperature 3. Schwalm Henning (BOKU), The role of root and rhizosphere traits in phosphorus efficiency of upland rice 4. Pązik Sabina (SGGW), Analysis of the possibility of using hemp oil cake 5. Cowland Morten (SCIENCE), Micronutrients in hydroponics - utilisation of micronutrients in hydroponically grown tomato with organic fertiliser versus inorganic fertiliser <p>Subtheme Ecosystem chaired by Emma Capandegui (SLU), <i>Let's dig in</i></p> <ol style="list-style-type: none"> 1. Hartmann Antonia (SLU), Greenhouse gas emissions from compacted peat soil 2. Leah Kirchhoff (SLU), Impact of vegetation mycorrhizal type on fungal community composition in arctic tundra heath 3. Nagarajan Neerajaa (SLU), The role of agricultural drainage in controlling the effectiveness of two-stage ditches in Sweden
15:45-16:10	Online Coffee Break by ELSA	
16:10-17:10	Parallel Oral Sessions II	<p>Subtheme Molecule chaired by Julia Lindh, <i>On genes and sex</i></p> <ol style="list-style-type: none"> 1. Kawalski Kacper (SGGW), Investigation of the effects of xenobiotic nanoparticles and silver ions on germinal cell development in Danio rerio 2. Mona Fritscher (UHOH), Genetic characterization of the gene takeout as potential link between sex determination and behavior in the honey bee Apis mellifera 3. Bertills Mathilda (SLU), Who Calls the African Wild Dog? – De novo SNP discovery and genotyping in the Lycaon pictus <p>Subtheme Organism chaired by Ulla Fischle, <i>Stay healthy</i></p> <ol style="list-style-type: none"> 1. Schepers Lara (WUR), Is there an optimal form of exercise to improve health? Exploring the role of PGC-1α in the effects of exercise on inflammation 2. Utri Zofia (SGGW), Does increasing salmon intake help maintain vitamin D status in young Polish women in the autumn season 3. Bergmann Marie (SCIENCE), Loss of Appetite in Patients with Chronic Obstructive Pulmonary Disease: A Descriptive and Qualitative Study with a Mixed Method Approach <p>Subtheme Community chaired by Tereza Otcová, <i>From soil to crop</i></p> <ol style="list-style-type: none"> 1. Gopinathan Gopika (BOKU), Evaluation of durum wheat cultivars, breeding lines and landraces for Fusarium head blight resistance and its association with anther extrusion 2. Mäder Philipp (UHOH), Small-scale investigation of the microbial community and enzyme activity in a DO13C flowcell experiment on undisturbed top- and subsoils 3. Girard Anne-Laure (BOKU), Phenotypic and genotypic analyses of a European winter wheat panel for resistance against Fusarium head blight <p>Subtheme Ecosystem chaired by Chirag Girdhar, <i>Meadows & forests</i></p> <ol style="list-style-type: none"> 1. Deluga Damian (SGGW), Phytoremediation of particulate matter by Taxus baccata L. and Pinus sylvestris L. depending of air pollution level in different cities in Poland 2. Helena Schwab (UHOH), The meadow is alive - how can biodiversity become accessible to consumers 3. Adam Nawrocki (SGGW), Air phytoremediation from particulate matter by flower meadows in an urbanized area
17:20-18:20	Parallel Poster Sessions II	<p>Subtheme Organism chaired by Claudia Bieling (UHOH), <i>What and how we eat</i></p> <ol style="list-style-type: none"> 1. Martyna Posluszny (SGGW), Verification of the Utility of Chicken Isolated Intestine Specimens for Gastrointestinal Motility Studies 2. Gbenjo Oluwadamilola (SGGW), Distribution and population density of nematodes species associated with leafy vegetables grown in selected extension villages in Odeda Local Government, Ogun state <p>Subtheme Community chaired by Thorsten Treue (SCIENCE), <i>We changed the natural habitats</i></p> <ol style="list-style-type: none"> 1. Harshnakumari Kalsinhbhai Bhabhor (CZU), Factors Influencing Consumer Behaviour Towards Indian Restaurants Among Indian Community and Non-Indian People (the case of Prague) 2. Sandra Sikkema (WUR), In Dust We Trust, shaping drifting dune dynamics in the North Holland Dune Reserve 3. Gospel Ayodele Iyioku (CZU), Effect of Farmer Input Support Program on the Economic Performance of Smallholder Maize Farmers: A Case Study of Agricultural Cooperatives in Zambia 4. Marie Jessica Gabriel (SCIENCE), Causes of deforestation in the Philippines: A four decade (1980-2020) study 5. Busari Olayode Ibrahim (CZU), Impacts of "the eko atlantic city project" on the environment 6. Samuel Kriegl (BOKU), Current challenges for the water management of Austrian golf courses <p>Subtheme Ecosystem chaired by Alexandre Fahringer (BOKU), <i>Amend the production</i></p> <ol style="list-style-type: none"> 1. Alena Holzknrecht (SLU), Can Agriculture Help Solve the Climate Crisis? Relating regenerative farming practices to carbon sequestration and soil health on Gotland, Sweden 2. Ranscht Leon Johann Andreas (UHOH), Assessment of CONVISIO® SMART under the current approval and field conditions in Mid-Germany 3. Babatunde Olayemi (SGGW), Growth, regrowth ability and nutrient content of celosia argentea with cattle dung 4. Katarzyna Trzaska (SGGW), Analysis of the functioning of FIFO in stores, taking into account organic food intended for children aged 0-3 years

18:30-20:00	Online Dinner Break
20:00-23:00	Online Student Party

Saturday, 20 November 2021

8:00-8:30	Wake Up Session by Iwona Gruszka	
09:00-10:00	Parallel Oral Sessions III	Subtheme Organism chaired by Eefje van Dae, <i>Take care of yourself</i> 1. Adrian Loy (BOKU), Can you run from UV radiation? Personal UV radiation exposure while jogging 2. Katarzyna Łożyńska (SGGW), Diet and the severity of acne in adolescents 3. Samirah Blaauw (WUR), Does alcoholism have an intergenerational effect? Investigating the genetic background of alcoholism in <i>C. elegans</i>
		Subtheme Community chaired by Elin Fridlund, <i>Women and food</i> 1. Patrycja Cichońska (SGGW), The opinion of Polish women on selected aspects of plant-based beverages 2. Caroline Beach (CZU), Are Cooperatives an Effective Organizational Structure for Encouraging and Supporting Women's Empowerment? Evidence from Agricultural Cooperatives in the Country of Georgia
		Subtheme Ecosystem chaired by Charlotte Aue, <i>Insects wanted or not?</i> 1. Daniel Gärtling (UHOH), Effects of Black Soldier Fly by-product application on the whole-cycle performance of fungus gnats 2. Thomas Zankl (BOKU), The role of parasitoids and pathogens in the collapse of a gypsy moth (<i>Lymantria dispar</i>) population outbreak in Lower Austria 3. Gamonal Nerea (SCIENCE), Pollinator or not? Arthropod visitors in Danish apple orchards
10:10-11:10	Parallel Poster Sessions III	Subtheme Organism chaired by Geir Løe (SLU), <i>Microcosmos</i> 1. Monika Michalik (SGGW), Molecular identification of sex in monomorphic breeds and species of birds 2. Aleksandra Filipek (SGGW), Identification of MDR1 gene mutation in domestic dog (<i>Canis lupus familiaris</i>) – in silico study 3. Sindi Tejera (SCIENCE), Development of a bioassay to assess biopesticide effects of <i>Bacillus thuringiensis</i> strains using the meal worm beetle <i>Tenebrio molitor</i> as a model insect 4. Katarzyna Wierzychowska (SGGW), <i>Yarrowia lipolytica</i> yeast - a multifunctional tool in microbial oil collection 5. Diana Kmetkova (SCIENCE), The impact of income on the share of animal-based protein in the diet
		Subtheme Community chaired by Arnold Bregt (WUR), <i>Cicer cum caule</i> 1. Cahyani Shassy (WUR), How to construct and implement a nature-inclusive concept using a participatory approach and spatial data Case study: Quicksan software application for sustainable tourism development in small island developing states, Bonaire 2. Magdalena Karwacka (SGGW), The influence of carriers on the composition and chemical properties of freeze-dried vegetable snacks 3. Golestani Nazli (BOKU), Digital learning and teaching for plant and tree breeding 4. Maria Małachowska (SGGW), Effects of Harvista™ and SmartFresh™ ProTabs on physiological state and quality of apples of Red Cap® cultivar stored in ULO conditions 5. Brignoli Paolo Libenzio (WUR), Machine Learning to predict grains future prices - Forecasting agricultural commodity prices using an LSTM Neural Network and traditional econometrics
		Subtheme Ecosystem chaired by Efstathios Diamantopoulos (SCIENCE), <i>Act sustainable</i> 1. Sarah-Carina Grunt (BOKU), Emission-restriction potential of touristic aviation through carbon offset and carbon tax in Austria 2. Vybornova Anastassia (SCIENCE), Towards a sustainability shift of the transportation system: a network algorithm for the identification of gaps in urban bicycle networks based on OSM data 3. Joanna Orzińska (SGGW), Application of the green streets in limited urban space, Warsaw case study 4. Jessica Spengler (UHOH), Impact of the evolution of the climate system on phenology as a challenge for agriculture in Baden-Württemberg - Investigation of climate change in connection with large-scale weather-classifications 5. Vincent Oostvogels (WUR), Bending the curve of biodiversity loss: interdisciplinary research to enhance biodiversity conservation in agroecosystem 6. Natalia Piechota (SGGW), Traffic-related PM accumulation from vegetation of urban forests
11:10-11:30	Online Coffee Break by ELSA	
11:40-12:40	Parallel Oral Sessions IV	Subtheme Organism chaired by Elin Fridlund, <i>How fish grow?</i> 1. Magdalena Sobień (SGGW), Histological analysis of the habenula in paradise fish (<i>Macropodus opercularis</i>) 2. Muhammad Firdaus (WUR), Water temperature alters white muscle fibre recruitment and growth in juvenile Nile tilapia 3. Pola Pruchniak (SGGW), Do silver nanoparticles have effect on sex development in fish
		Subtheme Community chaired by Julia Lindh, <i>Humans and natural resources</i> 1. Georg-Wilhelm Koenig (BOKU), Understanding the quality of exotic coffee: More than just a souvenir? The case of Gran Canaria, Spain

		2. Jakub Smyk (SGGW), Database of Forestry Students' Scientific Association at Warsaw University of Life Sciences
		<p>Subtheme Ecosystem chaired by Ulla Fischle, <i>Soil, water, air</i></p> <p>1. Manuela Irina Watschka (SLU), Phosphorus accumulation in a free water surface wetland discharging into the Baltic Sea</p> <p>2. David Luger (BOKU), Aggregate associated carbon as influenced by soil management intensity</p>
12:50-13:50	Parallel Poster Sessions IV	<p>Subtheme Organism chaired by Zhongbing Chen (CZU), <i>How does it work inside?</i></p> <p>1. Biemans Ynte (WUR), Multimodal prehabilitation to improve functional capacity and postoperative outcomes in sarcopenic colorectal cancer patients</p> <p>2. Paula Franceković (SCIENCE), Waking up a scientific sleeper – our vascular gatekeeper</p> <p>3. Goedhart Nienke (WUR), The YoYo effect: investigating the adipocyte's metabolic and inflammatory response to weight cycling</p> <p>4. Adrian Szczepański (SGGW), Effect of selected plant extracts rich in saponins on the motoric activity of bovine gastrointestinal tract</p> <p>5. Sotomayor Sainz Alejandra (WUR), Maladaptive cognitive biases associated with obesity: Presence in a large and diverse population</p> <p>6. Marta Dadun (SGGW), Cardiological complications related to BOAS syndrome in French Bulldogs</p>
		<p>Subtheme Community chaired by Adam Vacek (CZU), <i>Bugs & co.</i></p> <p>1. Klaudia Jastrzębska (SGGW), Guests in bat-boxes</p> <p>2. Jan Rapczyński (SGGW), Large insects in nets - ornithological traps as a method in entomofauna research</p> <p>3. Jakub Badziukiewicz (SGGW), Habitat preferences of reptiles in Osieck region</p> <p>4. Zuzana Rázková (CZU), Solar Drying Applications in Conventional Vietnamese Beef Jerky Preparation</p>
		<p>Subtheme Ecosystem chaired by Maria Rembiałkowska (SGGW), <i>Don't waste it!</i></p> <p>1. Nora Korp (BOKU), Walnut shells as sustainable fillers in biodegradable plastic composites</p> <p>2. Aleksandra Ježo (SGGW), Lignocellulosic residues from vineyards as an alternative material for Wood Plastic Composites production</p> <p>3. Lilian Mira Kaufmann (BOKU), New materials based on waste: bacterial cellulose from kombucha production blended with walnut shells</p> <p>4. Julian Fränkel (BOKU), Behavior of microplastic particles in soil</p> <p>5. Paulina Gawron (SGGW), The culinary use of vegetable kitchen waste as component of sustainable food production system</p> <p>6. Christopher Thoma (BOKU), Effects of drying-rewetting cycles on soil greenhouse gas fluxes in an Austrian forest</p>
14:00-14:45	Online Lunch Break	
14:45-15:45	Award Ceremony by Marta Mendel SGGW Vice Rector for International Cooperation + Closing of the Conference	