



KBC DAYS 2021

9-10 November

Photo: Judith Lundberg-Felten

Programme

DAY 1, Tuesday 9 November

Session 1	WELCOME, PLENARY LECTURE I, AND VIDEO PITCH PRESENTATIONS <i>Chairperson: Stefan Björklund</i>
9.00-9.10	Welcome and opening of the KBC DAYS 2021 Stefan Björklund <i>Scientific Coordinator of KBC</i>
9.10-9.15	Video research pitch presentations: Sustainable biomass production for enhanced energy and food security in low- and middle-income countries Natxo Garcia Lopez, <i>Department of Applied Physics and Electronics, Umeå University</i> Microbes, Mucus and Burgers Sandra Holmberg, <i>Department of Molecular Biology, Umeå University</i>
9.15-10.00	Plenary lecture I: Interaction between diet, gut bacteria and the intestinal mucosal barrier Björn O. Schröder <i>Department of Molecular Biology and Laboratory for Molecular Infection Medicine Sweden (MIMS), Umeå University, Sweden</i>
10.00-10.05	Video research pitch presentations (continued): Investigating anti-bacterial resistance Saba Shahzad, <i>Department of Medical Biochemistry and Biophysics, Umeå University</i> Micropollutants removal and recyclability of biobased adsorbent using hydrothermal degradation Pierre Oesterle, <i>Department of Chemistry, Umeå University</i>
10.05-10.15	"Excellence by Choice" Postdoctoral Programme Teresa Frisan <i>Department of Molecular Biology and Deputy Director of Umeå Centre for Microbial Research (UCMR), Umeå University</i>
10.15-10.25	Video research pitch presentations (continued): Teatime for Science - How to use tea to improve climate models Sarah Schwieger, <i>Department of Ecology and Environmental Science (EMG), Umeå University</i> Vulnerability to Malaria with climate change in Mozambique Chaibo Jose Armando, <i>Department of Public Health and Clinical Medicine, Umeå University</i> Forever chemicals in household waste – a never-ending story? Sofie Björklund, <i>Department of Chemistry, Umeå University</i>
10.25-10.35	Discussions with the video research pitch presenters
<i>10.35-10.45</i>	<i>Coffee break</i>
Session 2	NEW FACULTY MEMBERS, AWARD AND GRANT RECIPIENTS AT KBC <i>Chairperson: Stefan Björklund</i>
10.45-11.00	Shining a spotlight on the hidden part of plants Gesche Blume-Werry <i>Department of Ecology and Environmental Sciences, Umeå University</i>

11.00-11.15	Towards better understanding of exoplanetary spectra Aleksandra Foltynowicz Matyba <i>Department of Physics, Umeå University</i>
11.15-11.30	Unchecked nick ligation can promote localized genome re-replication Erik Johansson <i>Department of Medical Biochemistry and Biophysics, Umeå University</i>
11.30-11.45	Mapping bacterial functional proteomes with thermal proteome profiling André Mateus <i>European Molecular Biology Laboratory, Genome Biology Unit, Heidelberg, Germany, and Department of Chemistry, Umeå University</i>
11.45-12.00	Artificial membranes innovative role in redefining and transforming chemical engineering concepts Naser Tavajohi <i>Department of Chemistry, Umeå University</i>
<i>12.00-13.00</i>	<i>Lunch break</i>
Session 3	PANEL DISCUSSION
13.00-14.30	Panel discussion "Wood resources, bioenergy and biodiversity" <i>Moderator: Malin von Essen, Writer, Facilitator and Moderator, Malin von Essen AB</i> <i>Panel members:</i> Stina Jansson , Associate professor, Department of Chemistry, Umeå University Bengt-Gunnar Jonsson , Professor, Department of Natural Sciences (NAT), Mid Sweden University, Sundsvall, and Guest Professor, Department of Wildlife, Fish and Environmental Studies, SLU, Umeå Mårten Larsson , Head of bioenergy policy, Swedish Forest Industries Federation, Stockholm Tomas Lundmark , Professor, Department of Forest Ecology and Management, SLU, Umeå Thomas Kraft , PhD, Program Manager, <i>Skogforsk, Tree breeding, Svalöv</i> Anders Telenius , Associate Professor, Department of Bioinformatics and Genetics, Swedish Museum of Natural History, Stockholm, Sweden; Swedish Biodiversity Data Infrastructure (SBDI)
<i>14.30-14.45</i>	<i>Coffee break</i>
Session 4	PLENARY LECTURE II AND NEW FACULTY MEMBERS, AWARD AND GRANT RECIPIENTS AT KBC (continued) <i>Chairperson: Judith Lundberg-Felten</i>
14.45-15.30	Plenary lecture II: Microalgae: diversity in morphology and applications Luísa Gouveia <i>LNEG - UBB - National Laboratory of Energy and Geology I.P., Bioenergy and Biorefineries Unit, and GREENCOLAB - Green Ocean Technologies and Products Collaborative Laboratory, CCMAR, Algarve University, Portugal</i>
15.30-15.45	More than 'just a number,' differences between juveniles and adults shield ecological communities from collapse André M de Roos

	<i>Department of Biodiversity and Ecosystem Dynamics, University of Amsterdam, The Netherlands, and Department of Ecology and Environmental Science, Umeå University</i>
15.45-16.00	Nanophotonics meets biology Nicolò Maccaferri <i>Department of Physics and Materials Science, University of Luxembourg, Luxembourg, and Department of Physics, Umeå University</i>
16.00-16.15	Year-round climate feedbacks of winter phenological (mis)matches of plants and microbes across the Arctic Ellen Dorrepaal <i>Department of Ecology and Environmental Science, Umeå University, and CIRC, Abisko Naturvetenskapliga Station</i>
16.15-16.30	Enterobacterial stress response protein triad: does form follow function? Irina Gutsche <i>Institute of Structural Biology, Grenoble, France and Umeå Core Facility for Electron Microscopy (UCEM), Umeå University</i>
16.30-16.45	New alternatives to combat Antimicrobial Resistance (AMR) Fredrik Almqvist <i>Department of Chemistry, Umeå University</i>
<i>16.45-17.00</i>	<i>Break</i>
<i>17.00</i>	<i>Mingle at KBC</i>

DAY 2, Wednesday 10 November

Session 5	PLENARY LECTURE III <i>Chairperson: Stefan Björklund</i>
8.40-9.00	Applying for external funding? We can help! - Learn about how you can get help with applying for and handling research grants at UmU and SLU Caroline Grabbe, <i>Grants Office, SLU</i> Anders Wennström, <i>Research Support and Collaboration Office, Umeå University</i>
9.00-9.45	Plenary lecture III: Exploring the links between forest diversity, ecosystem functioning and ecosystem services Julia Koricheva <i>Department of Biological Sciences, Centre for Ecology, Evolution and Behaviour, Royal Holloway, University of London, UK</i>
9.45-10.00	<i>Coffee break</i>
Session 6	UMEÅ POSTDOC SOCIETY <i>Chairperson: Karim Rafie</i>
10.00-10.10	UPS - Who we are and what we do Dorothee Langenbach, <i>Department of Molecular Biology, Umeå University and Umeå Postdoc Society</i> Sean Bisset, <i>Department of Molecular Biology, Umeå University and Umeå Postdoc Society</i>
10.10-10.25	Battles between predators and prey may have shaped ocean life as much as mass extinctions Alexis Rojas-Briceno <i>Department of Physics, Umeå University</i>
10.25-10.40	Peatlands: Carbon, Volcanoes, Trees and Drying Joshua Ratcliffe <i>Unit for Field-based Forest Research, Vindeln, SLU</i>
10.40-10.55	Effects on <i>Aedes aegypti</i> mosquitoes after sublethal exposure to a <i>Chromobacterium</i>-derived biopesticide Cecilia Springer Engdahl <i>Department of Clinical Microbiology, Umeå University</i>
10.55-11.10	Cryo-EM structures of two Staphylococcal self-loading helicases reveal unexpected insights for translocation Cuncun Qiao <i>Department of Medical Biochemistry and Biophysics, Umeå University</i>
11.10-11.25	Towards a structural understanding of the Type 4 Secretion System ATPases in Gram-positive bacteria Saba Shahzad <i>Department of Medical Biochemistry and Biophysics, Umeå University</i>

11.25-11.40	Microsporidia: Divergent evolution underlies a unifying structural theme? Himanshu Sharma <i>Department of Molecular Biology, Umeå University</i>
11.40-12.00	Host a PI Moderator: Sophie Tronnet, <i>Department of Molecular Biology, Umeå University and Umeå Postdoc Society</i> interviewees: Lars-Anders Carlson , <i>Department of Medical Biochemistry and Biophysics, Umeå University</i> Francesca Aguiro , <i>Department of Molecular Biology and Wallenberg Centre for Molecular Medicine at Umeå University (WCMM)</i>
<i>12.00-13.00</i>	<i>Lunch break</i>
Session 7	INFRASTRUCTURE PRESENTATIONS <i>Chairperson: Xiao-Ru Wang</i>
13.00-13.10	Introduction: KBC infrastructure support Stefan Björklund <i>Scientific Coordinator of KBC</i>
13.10-13.20	HPC2N: High-performance computing resources @ Umeå Paolo Bientinesi <i>Department of Computing Science and Director of the High Performance Computing Centre North (HPC2N), Umeå University</i>
13.20-13.30	SLU Umeå research infrastructure Michael Finell <i>Department of Forest Biomaterials and Technology (BTK), SLU</i>
13.30-13.40	Systematic forest and landscape data Anna-Lena Axelsson <i>Department of Forest Resource Management, SLU</i>
13.40-13.45	KBC research infrastructure Linda Sandblad <i>Department of Chemistry, Umeå University</i>
13.45-14.15	KBC infrastructure from a user perspective Moderator: Linda Sandblad, <i>Department of Chemistry and Director of Umeå Core Facility for Electron Microscopy (UCEM), Umeå University</i> Panel members: <ul style="list-style-type: none"> - Barbara Sixt, <i>Department of Molecular Biology and Molecular Infection Medicine Sweden (MIMS), Umeå University</i> - Forough Momayez, <i>Department of Chemistry, Umeå University</i> - Magnus Wolf-Watz, <i>Department of Chemistry, Umeå University</i> - Doreen Yu-Tuan Huang, <i>Department of Ecology and Environmental Sciences</i>
<i>14.15-14.45</i>	<i>Coffee break and time to</i> <ul style="list-style-type: none"> - <i>visit Expo area and discuss with infrastructure representatives</i> - <i>sign up for the offered infrastructure tours in respective Expo areas</i>

Session 8	NEW FACULTY MEMBERS, AWARD AND GRANT RECIPIENTS AT KBC (continued) <i>Chairperson: Stefan Björklund</i>
14.45-15.00	Sensorimotor control and physical activity in human musculoskeletal and neurological movement conditions Charlotte Häger <i>Department of Community Medicine and Rehabilitation; Physiotherapy and The Clinic of Orthopedic Surgery, Norrlands University Hospital, Umeå University</i>
15.00-15.15	Panacea: an antitoxin domain to neutralise any protein toxin? Gemma Atkinson <i>Department of Molecular Biology, Umeå University and Department of Experimental Medical Science, Lund University</i>
15.15-15.30	Martian Analogue Soils Interacting with Brines: How Brines Can Play a Role in Modern Martian Geochemistry Merve Yesilbas <i>Department of Chemistry, Umeå University</i>
15.30	Concluding remarks Stefan Björklund <i>Announcement of the Video Research Pitch presentation prize winner (sponsored by Agrisera)</i> <i>Announcement of the best Postdoc talk prize winner</i> <i>Announcement of the Photo competition prize winner</i>