

2nd BioSC Forum



AGENDA | SYMPOSIUM

November 2nd, 2015 | Maternushaus, Köln | Maternussaal

0. Kick off		
09:00	Welcome and introduction	Prof. Ulrich Schurr
I.	Conversion of renewable resources to materials and bulk chemicals <i>Session chair: Prof. Walter Leitner, Institute of Technical and Macromolecular Chemistry (ITMC), RWTH Aachen University</i>	
09:15	Key note: Creating a circular bio-based economy in Europe: challenges and opportunities	Dr. Hendrik Waegeman Bio Base Europe Pilot Plant Ghent
09:45	Talks	EnZIP – Enzymatic cell wall modification in plants for the improved biomass utilization
10:05		MisQual – Genotype and environment as driving factors for quality of lignocelluloses from Miscanthus as raw material for industry
10:20		BEPProdMod – Incremental multi-scale and multi-disciplinary modelling of processes in Bioeconomy
10:40		Coffee Break
11:00		BIOExpresSPro – Bacterial protein production for the sustainable molecular conversion of plant raw materials
11:20		UstiOpt – Defining optimum growth conditions for <i>Ustilago maydis</i> to increase the production of recombinant proteins
11:35		Elevator pitch – Short presentations of the posters
11:50	Poster session	BioBreak – Enzymes for biomass breakdown GLUFACT – Gluconobacter-Factory: Strains and processes for stereoselective oxidative conversion of renewable carbon sources to industrial products MoniCon – Establishing online-methodology to monitor growth of single species in fungal consortia OrCaCel – OrganoCat plant & pulping combinations for the full valorization of lignocellulose from perennial plants from marginal land PectiLyse – Activation of intrinsic enzymes for degradation of plant biomass side-streams ROXENSE – Redox sensing and engineering for optimization of biocatalysis VariSurf – Production of glycolipid variants for industrial application by smart genetic engineering
12:30		Final discussion Prof. Michael Feldbrügge, Dr. Hendrik Waegeman, Prof. Walter Leitner, Prof. Wolfgang Wiechert Moderator: Dr. Heike Slusarzcyk
13:00		Lunch Break

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II.	Alternative production pathways for bio-based fine chemicals and secondary metabolites		
<i>Session chair: Prof. Vlada Urlacher, Institute of Biochemistry, University of Düsseldorf</i>			
14:00	Talks	Key note: Natural Product Biotechnology – rethinking secondary natural product pathways for bio-based production of fine chemicals and drugs	<i>Prof. Oliver Kayser Technical Biochemistry TU Dortmund</i>
14:30		P-ENG – Efficient phosphate recovery from agro waste streams by enzyme, strain, and process engineering	<i>Prof. Lars Blank</i>
14:50		PNP-Express – Discovery and microbial production of natural products from plants	<i>Dr. Thomas Drepper</i>
15:10		TPOT – A proof of concept for an <i>E. coli</i> hydroxylation platform with efficient terpene/terpenoid translocation through the outer membrane	<i>Dr. Anna Joelle Ruff/ Prof. Ulrich Schwaneberg</i>
15:30		Coffee Break	
16:00		Elevator pitch – Short presentations of the posters	
16:15	Poster session	BioSAF – Carotenoid cleaving enzymes for efficient biosynthesis of Saffron CatIBs – Catalytically active inclusion bodies: New carrier-free enzyme immobilisates for biocatalysis DiPro – Dirigent proteins in bioeconomy FlowCom – Everything in flow – New compartments for cascade reactions InducTomE – Induction of secondary metabolites in tomato by-products for extraction and economic evaluation of the model process MoRe-Plants – Towards alkaloids: Monooxygenases from plants in reaction cascades SPREAD – Evaluation and development of energy plant <i>Silphium perfoliatum</i> L. as a source of renewable raw materials	<i>Dr. Anna Joelle Ruff/ Prof. Ulrich Schwaneberg</i> <i>Dr. Ulrich Krauß</i> <i>Dr. Thomas Classen</i> <i>Dr. Stefan Reinicke</i> <i>Dr. Annika Wiese-Klinkenberg</i> <i>Dr. Patrick Bongen</i> <i>Dr. Elena Pestsova</i>
17:15		Final discussion Prof. Oliver Kayser, Prof. Ulrich Schwaneberg, Prof. Vlada Urlacher, Prof. Jörg Pietruszka Moderator: Dr. Heike Slusarzyk	
III.	Awarding ceremony		
<i>Moderator: Prof. Georg Groth, Institute of Biochemical Plant Physiology, University of Düsseldorf</i>			
18:00		Honoring of the winners of the PhD-Competence and Supervision award 2015	
18:30		Networking and get-together	

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Permanent poster session

11:30	Poster session	Elevator pitch – Short presentations of the posters, November 2nd	
11:45		MisCas – Cascade Utilization of Miscanthus to increase resource efficiency BioSCEdU – Bioeconomy Educational Programmes S2B – Assessing Science to Business (S2B) Technology Transfer in the emerging Bioeconomy Aquatic photosystems in BioEconomy	<i>Felix Winzer/ Dr. Thorsten Kraska Dr. Jennifer Pahlke Laura Borge del Rey Prof. Andreas Weber</i>

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IV. Innovations for the sustainable production of food and feed Session chair: Prof. Georg Noga, INRES-Horticulture, University of Bonn			
09:00	Talks	Key note: Food security – A global challenge with demand for integrated bioeconomy solutions	Prof. Ulrich Schurr IBG-2: Plant Sciences Forschungszentrum Jülich
09:30		C4-PSH – C4 plant selective herbicides: A new approach to combat C4 weeds in arable crops	Prof. Georg Groth
09:50		Econ-BioSC – Biomass flows and technological innovation in the bioeconomy: A global scenario analysis	Dr. Nina Preschitschek
10:05		LIPANO – Glucosinolate break-down products as modifiers of soil fungal lipids, protein profiles and allelopathy: Impacts on nodulation, mycorrhiza and growth of <i>Fabaceae</i>	Dr. Meike Siebers
10:25		GreenGel – Biofunctional nanogel-based fertilizers for controlled nutrition of plants	Dr. Felix Jakob/ Prof. Ulrich Schwaneberg
10:40		Coffee break	
11:00		Elevator pitch – Short presentations of the posters	
11:10	Poster session	AlgalFertilizer – Algae delivering waste phosphorus to soil and crops	Dr. Ladislav Nedbal
		BiFuProts – Bifunctional fusion proteins for plant protection	Dr. Felix Jakob/ Prof. Ulrich Schwaneberg
		EtMeD – Development of an ethylene measuring device for ethylene receptor characterization of plants	Dr. Tino Schlepütz
		NovoSurf – Identification of novel natural microbial surfactants	Dr. Sylvia Schleker
		PhytaPhoS – Optimizing the phosphorus cycle in the sugar beet production process by phytase supplement	Dr. Ute Arnold
		PlaMint – Investigate plant-microbe interactions to improve plant health and productivity	Dr. Vera Göhre
		PrimACs – Priming-active compounds for plant protection	Dr. André Müller/ Prof. Uwe Conrath
		RIPE – Ripening delay of climacteric fruits by peptides	Dr. Leticia Novaes
11:45	Final discussion Prof. Ulrich Schurr, Prof. Georg Noga, Prof. Uwe Conrath, Dr. Peter Nagler (Evonik GmbH) Moderator: Dr. Heike Slusarzyk		
V. Closing session			
12:15		Final remarks	Prof. Ulrich Schurr
End of symposium			
12:30		Lunch break	
13:00		Start of BioSC training “Interdisciplinary project preparation and proposal writing – From idea to proposal”	

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AGENDA | TRAINING

November, 3rd 2015 | Maternushaus, Köln | Tagungsraum Dreikönigssaal

Interdisciplinary project preparation and proposal writing – From idea to proposal

I.	Introduction <i>Moderator: Dr. Wolfgang Adamczak</i>	
13:00	Introduction of participants	All
13:15	Proposal and application basics	<i>Dr. Wolfgang Adamczak</i>
13:30	How to write a successful proposal?	<i>Dr. Wolfgang Adamczak</i>
II.	Best practice example BOOST FUND project “InducTomE” <i>Moderator: Dr. Annika Wiese-Klinkenberg, IBG-2: Plant Sciences, Forschungszentrum Jülich</i>	
14:15	Project presentation “InducTomE - Induction of secondary metabolites in tomato by-products for extraction and economic evaluation of the model process”	<i>Dr. Annika Wiese-Klinkenberg</i>
14:30	Report of experiences Preparation, writing, application	<i>Dr. Annika Wiese-Klinkenberg, Dr. Mauricio Hunsche, Dr. Laura Carraresi, Andreas Bednarz</i>
15:00	Coffee Break	
III.	Practical work experience <i>Moderator: Dr. Wolfgang Adamczak</i>	
15:15	Joint development of an interdisciplinary project and proposal Introduction and grouping	<i>Dr. Wolfgang Adamczak</i>
15:30	Group work	All
17:30	Working as an expert	All
18:00	Feedback from participants	All
End of training		