Survival artists

Microorganisms represent the greatest diversity of life on earth and have evolved fascinating metabolic adaptations. Some ensure survival in challenging environments, others allow mutualistic interactions with plant or animal hosts and provide the resulting holobiont with emerging properties that are of a selective advantage. This multi-national workshop brings together scientists that study such adaptations from various angles, often combining molecular with cultivation-based or process-oriented approaches. The topics range from metabolic strategies of bacteria and archaea that exploit even small amounts of energy in anoxic environments, to interactions among microbes and contributions of host-associated microbiomes to host nutrition or defense.

For more information please contact us:

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Please note: You must have an invitation to attend the meeting. If you are interested in attending and have not been invited, please contact us.

Description of the cover image

Methanogenic archaea colonizing the microoxic periphery of termite guts, visualized by autofluorescence of F₄₂₀, a cofactor of methanogenesis that is also involved in oxygen removal.

Reference

A. Brune and C. Dietrich. The gut microbiota of termites: Digesting the diversity in the light of ecology and evolution. Annu. Rev. Microbiol. 69:145-166 (2015)









Workshop of the CRC

Microbial Diversity in Environmental Signal Response

Welcome Hotel Marburg Pilgrimstein 29 35037 Marburg

Survival Artists October 9, 2017 www.sfb987.de

8:30 - 9:00	Registration	12:30 - 13:30	Lunch break
9:00 - 9:15	Opening remarks by Andreas Brune	Session 4	L
	Scientific organizer of the workshop	Chair:	Tobias Erb
Session 1		12.20 14.15	lillion Deterror
Chair:	Andreas Brune	15:50 - 14:15	(University of Vienna, Austria) A function, fine-scale diversity, and molecular
9:15 - 10:00	Martin Kaltenpoth (Johannes Gutenberg University Mainz)		interactions in marine chemosynthetic symbioses
	Outsourcing immunity: Microbial symbionts for pathogen defense in insects	Session 5	5
Session 2		Chair:	Lennart Randau
Chair:	Hannes Link	14:15 - 14:45	Amelia-Elena Rotaru (University of Southern Denmark, Odense)
10:00 - 10:30	Cornelia Welte		Syntrophic acetate oxidation facilitated by
	(<i>Radboud University, Nijmegen, Netherlands</i>) Detoxifying symbiosis in cabbage root flies		(semi)conductive materials in Baltic Sea sediments
	, , , , , , , , , , , , , , , , , , , ,	14:45 - 15:15	Michael Pester
10:30 - 11:00	Philipp Engel		(Leibniz Institute DSMZ Braunschweig, Germany)
	(University of Lausanne, Switzerland)		dark matter?
	evolutionary transition of an insect gut		
	symbiont into a blood-borne pathogen	15:15 - 15:45	Coffee break
11:00 - 11:30	Coffee break	Session 6	,
Session 3		Chair:	Knut Drescher
Chair:	Werner Liesack	15:45 - 16:15	Thomas Wichard
11.20 12.00	Themes Clause		(Friedrich Schiller University Jena, Germany) Bacteria-induced morphogenesis in macroalgae:
11:30 - 12:00	(RWTH Aachen University Germany)		The sea lettuce Ulva only gets into shape
	From complex gut communities to minimal		with the right bacteria
	microbiomes via cultivation	16.15 16.45	Paolina Carbova
12.00 12.20	Svotlana Dodych	10:15 - 10:45	(Netherlands Institute of Ecology, Wageningen)
12.00 - 12.50	(Russian Academy of Sciences, Moscow,		Microbial small talk: the role of volatiles in
	Russia)		fungal-bacterial and bacterial-bacterial interactions
	Novel bacteria from micro-oxic habitats:	16.45 16.50	Closing remarks by Erbard Bromor
	unexpected phenotypes and specific	10.45 - 10.50	Speaker of the CRC 987
	auaptations		the second of the