

Eukaryotic microorganisms (such as fungi, algae, and protists) display an impressive adaptive potential, comparable to that of prokaryotes. They thrive in challenging environments or live in association with other species, either as pathogens or mutualistic symbionts. Their adaptive specialization within their respective habitats depends, among others, on the development of non-canonical cell compartments that provide dedicated biochemical and cell biological functions or serve important roles in the life cycle of the pathogen. Some eukaryotic microorganisms dwell in nutrition-rich environments. This has allowed them to simplify or even lose functionally well-defined classical cell compartments during their own evolution. This international workshop brings together scientists studying the biogenesis, function and evolution of unusual cell compartments in molecular depth. Moreover, the role of these compartments in pathogenesis will be a central topic of the meeting.

Scientific organizers:

Roland Lill (Chair), Alfred Batschauer, Michael Bölker, Andreas Brune, Lars-Oliver Essen, Uwe Maier, Hans-Ulrich Mösch, Ulrich Mühlenhoff, Lars Voll.


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Guests are welcome. To register in advance, please visit our homepage.



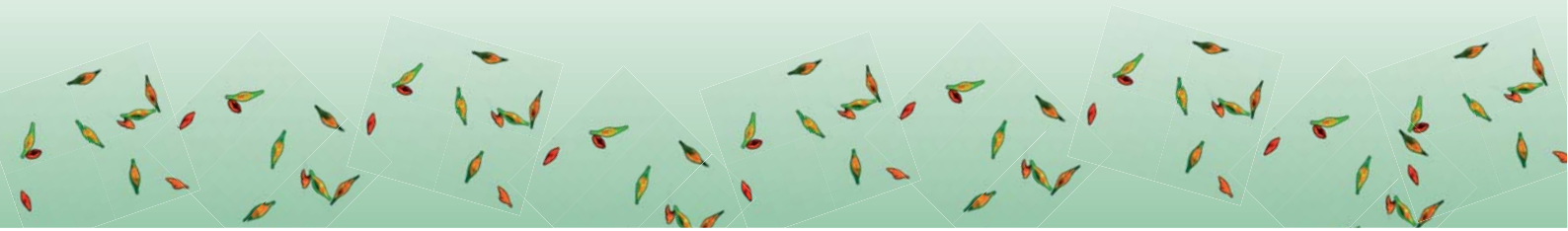
Workshop of the CRC  987

Microbial Diversity in
Environmental Signal Response

Unusual cell compartments in lower eukaryotes

October 10, 2019

Philipps-Universität Marburg
Universitätsbibliothek
Deutschhausstraße 9
35037 Marburg



8:30 - 9:00 Registration

9:00 - 9:15 Opening remarks by Roland Lill

Session 1

Cell wall biogenesis and function

Chair: Hans-Ulrich Mösch

9:15 - 9:50 **Carol Munro**
(University of Aberdeen, UK)
Candida albicans cell wall remodelling:
impact on antifungal drug susceptibility,
immune surveillance and virulence

9:50 - 10:25 **Christophe d'Enfert**
(Institute Pasteur Paris, France)
Candida albicans cell wall proteins and biofilm
formation

10:25 - 11:00 **Nils Kröger**
(Technische Universität Dresden, Germany)
How to build a glass house - towards under-
standing the biomolecular machinery of silica
deposition vesicles in diatoms

11:00 - 11:30 Coffee break

Session 2

Cell wall - interaction interface of fungal pathogens

Chair: Lars-Oliver Essen

11:30 - 12:05 **Nicholas J. Talbot**
(The Sainsbury Laboratory, Norwich, UK)
A novel turgor-sensing mechanism controls
septin-dependent plant infection by the blast
fungus *Magnaporthe oryzae*

12:05 - 12:40 **Antonio Di Pietro**
(University of Cordoba, Spain)
Host adaptation in the fungal pathogen
Fusarium oxysporum



12:40 - 14:00 Lunch break

Session 3

Eukaryotes with unusual or missing mitochondria

Chair: Ulrich Mühlenhoff

14:00 - 14:35 **André Schneider**
(University of Bern, Switzerland)
Mitochondrial biogenesis in trypanosomes -
variations on a theme or fundamentally different

14:35 - 15:10 **Julius Lukeš**
(University of South Bohemia, Czech Republic)
Signal peptide recognition particle-based
protein targeting inside the mitochondria of
some protists

15:10 - 15:45 **Andrew Roger**
(Dalhousie University, Halifax, Canada)
Origin and evolution of anaerobic mitochondria
across eukaryotic diversity

15:45 - 16:05 Coffee break

Chair: Uwe Maier

16:05 - 16:40 **Martin Embley**
(University of Newcastle, UK)
Diversity in form and function:
Unusual mitochondria in microbial eukaryotes

16:40 - 17:25 **Vladimir Hampl**
(Charles University Prague, Czech Republic)
Life without mitochondrion

17:25 Closing remarks

