

Statusworkshop Eukaryotic pathogens

Innsbruck / Axamer Lizum

06.02.20 - 08.02.20

in connection with doctoral programme HOROS



doctoral programme of excellence



**MEDICAL
UNIVERSITY**
INNSBRUCK

Thursday 6 FEBRUARY

Venue	Children's Clinic at the west end of Maximilianstr., Innsbruck
13:00-13:15	Welcome
Session I – Mucormycetes & Candida spp. (Chairs: Johannes Wagener, Würzburg; Michaela Lackner, Innsbruck)	
13:15-13:30	Course of disease and efficiency of anti-mycotic therapy in a murine model of Lichtheimia infection <u>Günter Rambach</u> , Med. Univ. Innsbruck
13:30-13:45	Complement & alveolar macrophages as local antifungal immunity in inhalative mucormycosis <u>Laura Riepl</u> , Med. Univ. Innsbruck
13:45-14:00	Monitoring of mucormycosis and drug efficacy testing by <i>M. circinelloides</i> reporter strains <u>Ulrike Binder</u> , Med. Univ. Innsbruck
14:00-14:15	Why are mucormycetes intrinsically resistant to voriconazole? <u>Michaela Lackner</u> , Med. Univ. Innsbruck
14:15-14:30	Biotin acquisition is crucial for immune evasion, <i>in vivo</i> persistence and virulence of <i>Candida glabrata</i> and <i>Candida albicans</i> <u>Marcel Sprenger</u> , HKI, Jena
14:30-14:45	Mitochondrial function as an antivirulence factor in <i>Candida glabrata</i> <u>Sofia Siscar Lewin</u> , HKI, Jena
14:45-15:00	Recognition and cytolytic killing of pathogenic <i>Candida</i> yeast by a fungivorous amoeba <u>Falk Hillmann</u> , HKI, Jena

15:00-15:30 COFFEE BREAK

Session II – Candidalysin

(Chairs: Sascha Brunke, Jena; Reinhard Würzner, HOROS, Innsbruck)

- 15:30-16:15 **Invited HOROS talk:**
Candidalysin – an important fungal virulence factor with fascinating facets
Julian Naglik, King's College, London
- 16:15-16:30 Between virulence and avirulence – the *Candida albicans* toxin Candidalysin
Annika König, HKI, Jena
- 16:30-16:45 The transcription factor Ahr1 is important for high-level expression of ECE1 and Candidalysin secretion in *Candida albicans*
Sophia Ruben, Fungal Septomics, Jena

16:45-17:15 COFFEE BREAK

Session III – Cryptococcus & Parasites

(Chairs: Toni Aebischer, RKI, Berlin; Ulrike Binder, HOROS, Innsbruck)

- 17:15-17:30 *Cryptococcus gattii* - Virulence of German environmental isolates
Rukmane Shabani, RKI, Berlin
- 17:30-17:45 Deciphering the role of plasminogen during complement evasion of the asexual blood stages of the malaria pathogen *P. falciparum*
Timo Reiss, RWTH, Aachen
- 17:45-18:00 Role of Arginine during *Giardia duodenalis* infection in mice
Toni Aebischer, RKI, Berlin

18:15 **Bus transfer from Innsbruck Clinics to Leutasch, Gaistal: Winter night walk to Hämmermoosalm (bring good shoes, gloves, cap and head lamp (if you have) with invited talk: “Vaccinations for PhD students”; downhill on toboggans on an easy slope; back to Innsbruck by bus before midnight**

Friday 7 FEBRUARY

08:00 **Bus transfer from Hotel Goldene Krone to Axamer Lizum**

Venue **Lizum 1600, Axamer Lizum 16, Axams**

Session IV – *Candida albicans*

(Chairs: Bernhard Hube, Jena; Cornelia Speth, Innsbruck)

- 09:00-09:15 Summary of yesterday’s sessions
Reinhard Würzner, HOROS, Innsbruck
- 09:15-09:30 Dissection of the *C. albicans* lipase gene family
Osama Elshafee, HKI Jena
- 09:30-09:45 Influence of microbiota composition on colonization resistance against *Candida albicans* in mice
Sarah Vielreicher, HKI, Jena
- 09:45-10:00 The immune response of genetically identical mice to *Candida albicans* is dependent on their microbiota
Wibke Krüger, HKI, Jena
- 10:00-10:15 Invasive *Candida albicans* infections: the role of complement and diabetes
Verena Harpf, HOROS, Med. Univ. Innsbruck

10:15-10:45 **Frontiers in Microbiology**-Prize winner talk
Candida albicans induced cellular damage
mediates translocation
Stefanie Allert, HKI, Jena

10:45-11:15 COFFEE BREAK

Session V – Aspergillus & fungal assays, models & therapy
(Chairs: Frank Ebel, München, Ilse Jacobsen, Jena)

11:15-11:45 Global progression of azole-resistant
Aspergillus fumigatus
Oliver Bader, Univ. Göttingen

11:45-12:00 Resistance to antifungal acting
fluoropyrimidines in *Aspergillus fumigatus*
Enrique Sastré, HOROS, Med. Univ. Innsbruck

12:00-12:15 New cutting-edge diagnostics: DNA micro-
array for direct detection of 56 dermatomy-
cosis pathogens
Melanie Harder, Euroimmun, Lübeck

12:15-12:30 Antimicrobial proteins and peptides promise
the development of effective new drugs
Anant Kakar, HOROS, Med. Univ. Innsbruck

12:30-12:45 Role of corticosteroids on immune cells
within a 3D lung fungal infection model
Maureen Luvanda, HOROS, Med. Univ. Innsbruck

12:45-13:00 Closure, group photo

13:30 Bus transfer from Axamer Lizum to central
railway station Innsbruck to reach EC train
@14:40 to be in B @21:30, MS,HH @23:30

Afternoon	Networking in small groups Several public bus transfers from Axamer Lizum to central railway station Innsbruck
Evening	Pub crawl with Reinhard Würzner

Saturday 8 FEBRUARY

08:30	Public bus or private cars to Axamer Lizum
Venue	Lizum 1600, Axamer Lizum 16, Axams
09:30-09:15	Glucose concentration in culture media <u>Reinhard Würzner</u> , HOROS, Innsbruck
09:15-afternoon	Networking in small groups
Afternoon	Several public bus transfers or private cars from Axamer Lizum to central railway station or city centre Innsbruck

NOTES



HOROS

Addresses of Venues & Hotel :

THU: Children's Clinic Innsbruck at the west end of Maximilian Str.
THU night: Hämmermoosalm, Leutasch

HOTEL: Hotel Goldene Krone at the east end of Maximilian Str.,
500m / 7 min away from central station and from venue,
info@goldene-krone.at

FRI & SAT: Lizum 1600, Axamer Lizum 19, Axams

Emergency Mobile (Reinhard Würzner): +43 650 2009592