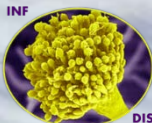


Infection & Immunity

Joint Doctoral Retreat

29.11.18 - 03.12.18

HOROS Innsbruck & intern. universities



Thursday 29 November

TRANSFERS

Four Seasons

Munich Airport: ~13:00 (Tom)

Bus

Innsbruck Clinics: 14:20 (Team Innsbruck)
(Schöpfstr/Bakery Ruetz)

Bus

Innsbruck Airport: 14:40 (Team Lübeck & Oslo)

Bus

Ötztal Station: 16:10 (Team Graz)

Taxi

Innsbruck Airport: 18:10 (for Seppo & Juha)

Innsbruck Airport: 21:30 (for Peter)

LOOK OUT FOR THE HOROS SIGN – AS SEEN ON LAST PAGE!

Address of Venue:

University center Obergurgl, Gaisbergweg 5, A-6456 Obergurgl,

www.universitycenter-obergurgl.at, obergurgl@uibk.ac.at

+43 512 507 37201

Emergency Mobiles

Marco Grasse: +43 660 713 2418

Reinhard Würzner: +43 650 2009592

Thursday 29 November

17.30-18:30 Arrival

18:30-20:15 **D I N N E R**

20:15-20:20 Opening
Reinhard Würzner, Marco Grasse

20:20-22:20 Complement Receptors

The C5a receptor as a target in inflammatory diseases

25+5min *Jörg Köhl, IRTG 1911, Lübeck*

C5a receptor 1 activation on inflammatory eosinophils drives maladaptive immune response in experimental allergic asthma

25+5min *Yves Laumonnier, IRTG 1911, Lübeck*

The C5a/C5a receptor 1 axis controls pulmonary tolerance at the level of pulmonary CD11b+conventional dendritic cells

10+5min *Konstantina Antoniou, IRTG 1911, Lübeck*

C5a/C5aR2 axis in natural killer cells

25+5min *Christian Karsten, IRTG 1911, Lübeck*

Macrophage-derived multinucleated giant cells formed in experimental allergic asthma in a C3aR dependent manner

10+5min *Katharina Quell, IRTG 1911, Lübeck*

22:20

B A R D I S C U S S I O N & D I S C O

Friday 30 November

08:15-09:45

Adaptive Immunity / DCs

HIV neutralizing antibodies induced by native-like envelope trimers incorporated into a rhabdoviral vector vaccine

10+5min

Anika Bresk, IIT, Innsbruck

Combination therapies to improve DC-based treatment of melanoma

10+5min

Athanasios Seretis, Innsbruck

MicroRNA-424 regulates monocyte-derived dendritic cell differentiation

10+5min

Victoria Zylulina, MOLIN, Graz

Human bone marrow adipocytes display distinct immune regulatory properties

10+5min

Carina Miggitsch, HOROS, Innsbruck

Peripheral antibody titers are associated with highly differentiated, senescent, and exhausted T cells, and pro-inflammatory changes in the human bone marrow

10+5min

Erin Naismith, HOROS, Innsbruck

CD8⁺ HLA-DR⁺ regulatory T cells in old age

10+5min

Franz Melzer, HOROS, Innsbruck

IN PARALELL

**CORVOS Topics & Partners I
(Garred, Köhl, Meri, Mollnes,
Wilflingseder, Würzner)**

09:45-10:00

C O F F E E B R E A K

10:00-11:45

Complement in disease

The lectin pathway of complement: an update

25+5min

Peter Garred, Copenhagen

Pathogenesis of EHEC infection

25+5min

Dorothea Orth-Höller, HOROS, Innsbruck

Shiga toxin 2a binds to complement components C3b and C5 and upregulates their gene expression in human cell lines

10+5min

Sneha Chatterjee, HOROS, Innsbruck

Characterisation of the gram-negative bacteria responses to lethal injury by complement

10+5min

Juha Kotimaa, Helsinki

The glucose-induced up-regulation of FH binding molecule Hgt1p in *C. albicans* influences the fungal killing by PMN

10+5min

Samyr Kenno, HOROS, Innsbruck

11:45-15:30

Ski & Networking

15:30-16:15

Symposium Vaccination

16:30-18:15

Immunity & Gut microbiota I

Dysbiosis, microbiota and gastrointestinal disease

25+5min

Gregor Gorkiewicz, MOLIN, Graz

Recipient-donor signature in predicting clinical response of faecal microbiota transplantation (FMT)

10+5min

Marija Durdevic, MOLIN, Graz

***Akkermansia muciniphila* in fecal microbiota transplantation**

10+5min

Barbara Jelusic, MOLIN, Graz

***Helicobacter pylori* manipulates the NKG2D tumour surveillance system**

10+5min

Margit Neger, MOLIN, Graz

IFIH1-deficiency favors tumor development in the intestine

10+5min

Sophie Macheiner, IIT, Innsbruck

Enhanced acquisition of antibiotic-resistant intestinal *E. coli* during the first year of life assessed in a longitudinal cohort study

10+5min

Benjamin Hetzer, IIT, Innsbruck

18:15-20:00

D I N N E R

20:00-22:00

Immunity & Gut microbiota II

Immune system in the gut

25+5min *Seppo Meri, Helsinki*

Western-diet-derived arachidonic acid induces intestinal inflammation in susceptible hosts

10+5min *Felix Grabherr, IIT, Innsbruck*

Unraveling multi-OMIC signatures of host-microbiota interaction to predict response to therapy in IBD

10+5min *Simon Reider, IIT, Innsbruck*

Glutathione peroxidase 4 in metabolic inflammation

10+5min *Julian Schwärzler*, IIT, Innsbruck*

Role of epithelial stress responses in initiating chronic intestinal inflammation

10+5min *Christina Watschinger*, IIT, Innsbruck*

IIT Alumni

Cancer cytogenetic: Basics and clinical significance

10+5min *Marion Steger, IIT, Innsbruck*

Because there is life outside academia

10+5min *Rita Caramalho, IIT, Innsbruck*

IN PARALELL

CORVOS Topics & Partners I
(Garred, Köhl, Meri, Mollnes,
Wilflingseder, Würzner)

22:00

BAR DISCUSSION & DISCO

* just started PhD project

Saturday 01 December

- 08:15-09:45** Animal-free models, Complement & HIV
- Designing novel human 3D cell models to study interactions at pathogen entry sites**
25+5min *Doris Wilflingseder, MCBO, Innsbruck*
- Role of corticosteroids on immune cells within a 3D lung model**
10+5min *Maureen Luvanda*, HOROS, Innsbruck*
- Optimizing animal-free culture of primary human respiratory cells for live cell analyses**
10+5min *Victoria Zaderer*, IIT, Innsbruck*
- Novel aspects of complement opsonization in host-pathogen interaction**
25+5min *Wilfried Posch, Innsbruck*
- HIV-1 hijacks the complement system to escape degradation and promote viral dissemination by human Langerhans cells**
10+5min *Marta Bermejo, MCBO, Innsbruck*
- 09:45-10:00** **C O F F E E B R E A K**

* just started PhD project

10:00-11:45

Vikings, blood and complement

A novel human whole blood model preventing fibrin formation reveals that thrombin does not cleave plasma C5 under physiological conditions

25+5min

Tom Eirik Mollnes, Oslo

Side-by-side comparison of two ex vivo human whole blood models reveals the effect of thrombin in complement activation and inflammation

10+5min

Christina Johnson, Oslo

Complement activation after out-of-hospital cardiac arrest is associated with poor cerebral outcome

10+5min

Viktorija Chaban, Oslo

Monitoring large abdominal surgery and adjuvant therapy by innate immune markers

10+5min

Camilla Schjalm, Oslo

Interaction of microvesicles from septic patients with endothelial cells in vitro

10+5min

Anna Brandtner, IIT, Innsbruck

11:45-16:00

Ski & Networking

16:00-16:30

Interaction of HOROS & other doctoral programmes

16:30-18:30

Aprés Ski Noderhütte

19:00-21:00

DINNER

Sunday 02 December

- 09:00-13:00** Ski & Networking
- 13:00-13:15** HOROS Faculty Member Meeting
- 13:15-14:00** HOROS Faculty Meeting (with HOROS students)
- 14:00-15:30** Bacteria, Fungi and Iron
- Regulation of arginase1 and inducible nitric oxide synthase in *Salmonella typhimurium* infected bone marrow derived macrophages**
10+5min *Natascha Brigo, HOROS, Innsbruck*
- Influence of iron supplementation on infections with *Salmonella Typhimurium***
10+5min *Alexander Hoffmann, HOROS, Innsbruck*
- Comparative analysis of pharmacokinetics and therapeutic efficacy of new oral and intravenous iron preparation in anemia of chronic disease (ACD)**
10+5min *Lara Valente de Souza, HOROS, Innsbruck*
- Effects of iron overload, iron deficiency and anemia on mitochondrial function and consecutive metabolic pathways**
10+5min *Christine Fischer*, IIT, Innsbruck*
- Molecular characterization of siderophore uptake in *Aspergillus fumigatus***
10+5min *Mario Aguiar, HOROS, Innsbruck*
- Aspergillus terreus*: A model for studying in vitro and in vivo persistence, tolerance or resistance**
10+5min *Roya Vahedi*, HOROS, Innsbruck*

* just started PhD project

15:30-16:00 **C O F F E E B R E A K**

16:00-18:00 Antimicrobial substances, Metabolism &
ZIKA virus

**Antimicrobial proteins and peptides promise
the development of new effective drugs**
10+5min *Anant Kakar*, HOROS, Innsbruck*

**Quantification of caspofungin in body fluids
by HPLC with tandem mass spectrometry
detection**
10+5min *Tiziana Gasperetti, IIT, Innsbruck*

TBA
10+5min *Azin Kheirkhah*, HOROS, Innsbruck*

**Setting up the cholesterol efflux capacity
(CEC) assay to study its influence on
susceptibility to infections**
10+5min *Johanna Schachtl-Rieß, HOROS Innsbruck*

**Role of high-density lipoprotein,
composition and function in allergy**
10+5min *Athina Trakaki, MOLIN, Graz*

**Interaction of ZIKA virus with the
complement system – status quo**
25+5min *Heribert Stoiber, HOROS, Innsbruck*

**Interaction of ZIKA virus with the
complement system – further investigation**
10+5min *Zahra Malekshahi*, HOROS, Innsbruck*

18:00-20:00 **D I N N E R**

20:00 **B A R D I S C U S S I O N & D I S C O**

* just started PhD project

Monday 03 December

09:00-09:30

CORVOS Summary

Reinhard Würzner, HOROS, Innsbruck

10:00

Departure of bus to Ötztal Bhf.

(will approx. arrive around 11.00-11.30)

and further to airport

(will approx. arrive around 12:00-12:30)

and further to clinics

(will approx. arrive around 12:30-13:00)

Contact:

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Marco Grasse
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Participating Universities:

Medical University Innsbruck
University of Innsbruck
Medical University of Graz
University of Lübeck
University of Oslo
University of Helsinki
University of Copenhagen

Doctoral Programs:

HOROS	HOst Response in Opportunistic infections (Innsbruck)
IIT	Infection, Immunity & Transplantation (Innsbruck)
MCBO	Molecular Cell Biology and Oncology (Innsbruck)
MOLIN	MOlecular fundamentals of INflammation (Graz)
IRTG 1911	Immunoregulation of inflammation in allergy and infection (Lübeck)



HOROS