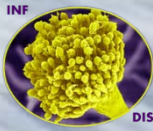


# Immunity meets Complement, Allergy & Infection

## Joint Doctoral Retreat &

## CORVOS Kick-Off

04.01.2020 - 09.01.2020





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**Saturday 04 January**

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**TRANSFERS**

**Bus**

**Innsbruck Clinics: 15:10**  
(Schöpfstr/Bakery Ruetz)

**Bus**

**Innsbruck Airport: 15:20**

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

**Address of Venue:**

**University center Obergurgl, Gaisbergweg 5, A-6456 Obergurgl,  
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**Emergency Mobiles**

**Marco Grasse: +43 660 713 2418**

**Reinhard Würzner: +43 650 2009592**

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## Saturday 04 January

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**17:00-18:30** Arrival

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

**20:15-20:30** Opening  
*Reinhard Würzner, IIT/HOROS/CORVOS &  
Marco Grasse, HOROS/CORVOS, Innsbruck*

**20:30-21:45** Aging (Chair: R. Würzner)

**Aging of the Immune System**  
*15min Erin Naismith, HOROS Alumni, Innsbruck*

**A novel Tfh population accumulates with age  
and links inflammaging with age-related  
immune-suppression**  
*45min David Hildeman, IRTG 1911, Cincinnati*

**Regulatory CD8<sup>+</sup> HLA-DR<sup>+</sup> T cells in old age**  
*15min Franz Melzer, HOROS, Innsbruck*

**21:45** **B A R D I S C U S S I O N & D I S C O**

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## Sunday 05 January

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**08:30-10:00**

Blood infections, Kidney

**Running in the blood: bacteremia and immune adherence**

30min

*Admar Verschoor, IRTG1911, Lübeck*

**Identification of potential factors interfering with molecular diagnostics for bloodstream infections**

15min

*Silke Huber, HOROS, Innsbruck*

**Pitfalls in measuring cholesterol efflux capacity and first results**

15min

*Johanna Schachtl-Rieß, HOROS, Innsbruck*

**The Role of PCSK9 in Health and Disease**

15min

*Azin Kheirkhah, HOROS, Innsbruck*

**Long live (with) the telomeres! Association between telomere length and mortality in the German Chronic Kidney disease study**

15min

*Federica Fazzini, HOROS, Innsbruck*

**IN PARALELL**

**CORVOS Topics & Partners I**

**10:00-10:15**

**C O F F E E   B R E A K**

**10:15-11:30**

Allergy

**Novel regulatory functions of prostaglandins in the lung**

30min

*Akos Heinemann, MOLIN, Graz*

**Evaluating monocytes as major prostaglandin source in lipopolysaccharide-induced inflammation**

15min

*Sonja Rittchen, MOLIN, Graz*

**Allergen-specific immunotherapy with apples: Selected cultivars could be a promising tool for birch pollen allergy**

15min

*Bettina Nothegger, IIT, Innsbruck*

**Doctoral college MOLIN**

15min

*Akos Heinemann, MOLIN, Graz*

**11:30-16:45**

Networking in small groups

**16:45-17:45**

Immunity & Gut microbiota

**Ways to influence the microbiome**

15min

*Simon Reider, IIT, Innsbruck*

**Protective Role of GPX4 in environmentally-induced colitis**

15min

*Felix Grabherr, IIT, Innsbruck*

**GPX4 in the homeostasis of metabolic inflammation**

15min

*Julian Schwärzler, IIT, Innsbruck*

**Lipid peroxidation drives intestinal Inflammation**

15min

*Lisa Mayr, IIT, Innsbruck*

## IN PARALELL

### CORVOS Topics & Partners II

17:45-18:30

#### Complement I

##### **Complement analyses – principles, indications and interpretations**

30min

*Tom Eirik Mollnes, Oslo*

##### **The role of the complement system and diabetes in invasive candidiasis**

15min

*Verena Harpf, HOROS, Innsbruck*

18:30-20:15

### D I N N E R

20:15-21:30

#### Complement II

##### **Stx2a & Complement**

15min

*Sará Kellnerová, HOROS, Innsbruck*

##### **The lectin Pathway – the Swiss army knife of innate immunity**

30min

*Peter Garred, CORVOS, Copenhagen*

##### **MAP-1 interacts with activated factor XII and attenuates coagulation in vivo**

30min

*Mikkel-Ole Skjodt, Copenhagen*

21:30

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

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## Monday 06 January

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08:30-10:00

Complement III (Chair: H. Stoiber)

**Non canonical functions of complement in inflammatory diseases**

30min

*Jörg Köhl, IRTG1911, Lübeck*

**The Role of C5a-mediated Cross-talk between NK Cells and Dendritic Cells in *Toxoplasma gondii* Infection**

15min

*Caroline Henning, IRTG1911, Lübeck*

**The role of C5a/C5aR1 axis on glycosylation of autoreactive IgG antibodies in Epidermolysis Bullosa Acquisita (EBA)**

15min

*Samyr Kenno, IRTG1911, Lübeck*

**The role of C5aR2 in pregnancy**

30min

*Christian Karsten, IRTG1911, Lübeck*

10:00-10:15

**C O F F E E B R E A K**

10:15-11:30

Fungi (Chair: F. Gsaller)

**Resistance to antifungal acting fluoropyrimidines in *Aspergillus fumigatus***

15min

*Enrique Sastre, HOROS, Innsbruck*

**Functional analysis of the *A. fumigatus* *ftmA* promoter via luciferase reporter assay**

15min

*Annie Yap, HOROS, Innsbruck*

**Molecular characterization of siderophore uptake in *Aspergillus fumigatus***

15min

*Mario Aguiar, HOROS, Innsbruck*



15min **Intrinsic azole resistance in mucormycetes**  
*Katharina Rosam, IIT, Innsbruck*

15min **The role of HIF-1 $\alpha$  in antifungal immunity during infection with *Histoplasma capsulatum***  
*Tim Quäschling, IRTG1911, Lübeck*

## IN PARALELL

### CORVOS Topics & Partners III

**11:30-16:45** Networking in small groups

**16:45-18:30** Vaccination & Treatment

15 min **Vaccination against HPV**  
*R. Würzner, IIT/HOROS/CORVOS, Ibk*

30min **Off-label use of eculizumab:clin.experiences**  
*Andreas Barrat-Due, Oslo*

15min **Passive and active immune therapy against gram-negative multi-drug resistant bacteria by breaking their immune resistance**  
*Vinaya Dulipati, Helsinki*

15min **Antimicrobial proteins and peptides promise the development of effective new drugs**  
*Anant Kakar, HOROS, Innsbruck*

15min **Pharmacokinetics of Echinocandins in Wound Secretion**  
*Tiziana Gasperetti, IIT, Innsbruck*

**Enhancement of complement-dependent cytotoxicity by SCR19-20 of factor H in a tumor model**

15min

*Lena Prantl, IIT, Innsbruck*

**18:30-20:15**

**D I N N E R**

**20:15-21:30**

Entrepreneurship &  
CORVOS Kick off celebration

15min

**Eurofins: More than sequencing**

*Anika Bresk, IIT Alumni, Eurofins*

15min

**Non-invasive approaches in treating or diagnosing female and male infertility**

*Carina Miggitsch, HOROS Alumni*

15min

**From science to research tool**

*Erik Toonen, Hycult*

30 min

**CORVOS – Kick off celebration**

**21:30**

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

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## Tuesday 07 January

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**08:30-10:00**

Intracellular infections

**Hormone-microbiome interactions disturb control of intracellular *C. trachomatis* infection**

30min

*Jan Rupp, IRTG1911, Lübeck*

**Characterization of dendritic cell function during HIV-1/Chlamydia coinfection**

30min

*Wilfried Posch, Innsbruck*

**Lipocalin2 versus Calprotectin in Inflammatory Bowel Disease**

15min

*Andreas Zollner, IIT, Innsbruck*

**Doctoral college IRTG1911**

15min

*Jörg Köhl, IRTG1911, Lübeck*

**10:00-10:15**

**C O F F E E B R E A K**

**10:15-11:30**

Parasites & Viruses

**How to block the malaria cycle**

30min

*Seppo Meri, CORVOS, Helsinki*

**Interaction of Vitronectin with ZIKV**

15min

*Zahra Malekshahi, HOROS, Innsbruck*

**Systemic Next generation disease modeling**

30min

*Doris Wilflingseder, CORVOS, Innsbruck*

**11:30-17:30**

Networking in small groups  
(HOROS Faculty till 16:30,  
HOROS-/IIT-Students till 17:00)

**16:30-16:55**      HOROS Faculty Member Meeting

**17:00-17:25**      HOROS Faculty Meeting (with HOROS students)

**17:30-18:30**      Iron & Immunity (Chair: C. Speth)

**Systemic analysis of pathogen specific  
(intracellular vs. extracellular) regulatory  
networks of iron homeostasis**

*15min*                      *Alexander Hoffmann, HOROS, Innsbruck*

**Comparative analysis of pharmacokinetics and  
therapeutic efficacy of different iron  
preparations in Anemia of Chronic Disease  
(ACD) combined or not with Iron Deficiency  
Anemia (IDA)**

*15min*                      *Lara Valente de Souza, HOROS, Innsbruck*

**Mitochondrial function and iron  
metabolism**

*15min*                      *Christine Fischer, IIT, Innsbruck*

**Upregulation of interleukin-4 induced  
Arginase1 leads to a more sufficient infection  
control in Salmonella Typhimurium infected  
macrophages**

*15min*                      *Natascha Brigo, HOROS, Innsbruck*

**18:30-20:15**      **D I N N E R**

**20:15-21:15**

HIV Disease Modelling (Chair: V. Fleischer)

**The Role of Corticosteroids on immune cells within a 3D Lung model**

15min

*Maureen Luvanda, HOROS, Innsbruck*

**Engineering a human artificial lymph node to dissect host-pathogen interactions: a new approach to investigate HIV transfer 'in vivo'**

15min

*Elliott Lafon, HOROS, Innsbruck*

**Monitoring HIV-1 infection in a mucosal 3D model**

15min

*Viktoria Zaderer, IIT, Innsbruck*

***Aspergillus terreus* as a model for studying Amphotericin B resistance, tolerance and persistence**

15min

*Roya Vahedi, HOROS, Innsbruck*

**21:15**

**BAR DISCUSSION & DISCO**

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## Wednesday 08 January

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**08:30-09:30**

Intracellular Bacteria & CORVOS

**Pathobiological diversity of *Mycobacterium tuberculosis* complex strains**

*30 min*

*Stefan Niemann, CORVOS, Borstel*

**CORVOS summary, Part I**

*30 min*

*R. Würzner, IIT/HOROS/CORVOS, Ibk*

**09:30-09:45**

**C O F F E E B R E A K**

**09:45-10:45**

Microbiology in clinical applications

*30 min*

**TBA**

*N.N.*

*30 min*

**TBA**

*N.N.*

**IN PARALELL**

**CORVOS Topics & Partners IV**

**10:45-15:45**

Networking in small groups

**15:45-18:30**

Après Ski Nederhütte

**19:00-21:00**

**D I N N E R**

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## Thursday 09 January

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**08:15-08:45**

**CORVOS summary, Part II**

*R. Würzner, HOROS/CORVOS, Ibk*

**09:00**

**Departure of bus to Ötztal Bhf.**

**(will approx. arrive around 10.00)**

**and further to airport**

**(will approx. arrive around 10:50) and**

**further to clinics**

**(will approx. arrive around 11:00)**

**Contact:**

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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)
CORVOS	Complement Regulation and Variations in Opportunistic infectionS (Innsbruck, Lübeck, Oslo, Copenhagen, Helsinki, et al.)
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

