21st Annual Meeting

Innsbruck, Austria

September 13 - 15, 2007

in cooperation with the

“DC-THERA European Network“
Dear Colleagues!

On behalf of the local organizing committee I cordially welcome you in Innsbruck at the 21st Annual Meeting of the European Macrophage and Dendritic Cells Society (EMDS). As a premiere this meeting is organized together with the European DC—THERA network which set up a very interesting imaging workshop being open to all EMDS participants on Saturday, Sept 15th, afternoon.

Research on macrophages/DCs and infectious diseases has been a central research focus of several groups here in Innsbruck. Major emphasis has been put on studying host-pathogen interaction, the regulatory networks between iron homeostasis and immunity, macrophage effector pathways including nitric oxide production, neopterin formation and indoleamine dioxygenase activation, antigen recognition, containment and processing by macrophages/DCs, immune cell/DC migration, intestinal immunity et cetera. DCs were first brought to Austria from their place of discovery, the Rockefeller University (RM Steinman & Z. Cohn), by researchers from this university (N Romani) some 20 years ago. Innsbruck was the initial center for dissemination of DC knowledge across many European countries. Innsbruck was also the place where one of the first clinical trials, using DC for tumor therapy, was initiated in 1997.

This existing focus on macrophages and DCs was a main reason why in 2004 Innsbruck Medical University (MUI) chose “Infection and Immunity” as a main strategic research area. In addition, a postgraduate doctoral study programme (MD/PhD-programme) with the topic “Infectious diseases: molecular mechanisms” has already been established at the MUI in 2000 which perfectly complements this research focus.

This year’s EMDS meeting addresses several interesting aspects of macrophage and DC biology which have not been part of recent EMDS meeting. We are grateful to the exceptional scientists who were willing to accept our invitation as speakers and to present state of the art lectures at this meeting. In addition, almost 100 high quality abstracts were submitted, from which 30 were selected for oral presentation. In accordance with the traditional format of the EMDS meetings, there is only one lecture room and the poster presentations, coffee breaks and the industrial exhibition are in one and the same area a scenario which promotes the scientific exchange and puts the poster discussions into the center of the meeting.

The conference venue was a former catholic church, monastery and school until the 1980s when the order moved to a new building at the outskirts of Innsbruck.

The conference dinner will be held at the Urich-House at the Bergisel in the South of Innsbruck. The Bergisel is a traditional place, not only because of the close-by ski-jumping stadium but more importantly for historical reasons since there were the major fightings during the liberation war of 1809 when French and Bavarian troops moved in to Tyrol and were opposed by a Tyrolean army of farmers. In addition, from the balcony of the Urich-House you can anticipate a beautiful view on Innsbruck and the surrounding mountains.

I wish you all and enjoyable, scientifically rewarding and stimulating meeting here in Innsbruck.

Günter Weiss

On the behalf of the local organizing committee and all helper, supporters and assistants.
<Organising Committee>

Günter Weiss, MD - Head  email: guenter.weiss@i-med.ac.at
Gernot Fritsche
Dietmar Fuchs
Christine Heufler-Tiefenthaler
Arthur Kaser
Nikolaus Romani
Heribert Stoiber
Martin Thurnher
Herbert Tilg

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Manfred Lutz (Würzburg)
Caetano Reis e Sousa (London)
Alexander Steinkasserer (Erlangen)
Loems Ziegler-Heitbrock (Leicester)

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Jon Austyn, Coordinator (Oxford)

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<Registration Fee>

<table>
<thead>
<tr>
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<th>paid before June 3rd</th>
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<tr>
<td>Non-Member</td>
<td>Eur 260</td>
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<tr>
<td>Member of the EMDS</td>
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<td>Student</td>
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<td>Eur 210</td>
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<td>Per day registration at the venue</td>
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<Awards, Poster price>

Members of the EMDS (below the age of 35) joining the Annual EMDS Meeting are welcome to apply for a **Young Investigator Travel Award** (information: www.macrophage.de/yita.htm).
Additionally up to five posters will be honoured with a **Poster Price**
(information: www.macrophage.de/pp.htm).

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Innrain 7, 6020 Innsbruck, Austria
## Program Overview

<table>
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<th>Time</th>
<th>Symposium III: Intestinal macrophages and dendritic cells – From host pathogen interaction to immune tolerance</th>
<th>Symposium VI: Inherited and acquired defects of phagocyte function</th>
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<td>13:30</td>
<td>Symposium IV: Antigen presentation by macrophages and DCs</td>
<td>Symposium VI: continued</td>
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<td>14:30</td>
<td>Symposium I: Phagocyte innate resistance mechanisms</td>
<td>Symposium V: Iron metabolism and macrophage effector function</td>
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<td>15:00</td>
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<td>DC-THERA European Network – IMAGING Workshop</td>
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<td>16:30</td>
<td>Poster Session I with coffee and biscuits</td>
<td>Poster Session II with beer and prezel</td>
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<td>Symposium II: Macrophages/DC as therapeutic targets</td>
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<td>EMDS Business Meeting</td>
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<td>CLOSING REMARKS</td>
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<td>19:30</td>
<td>Welcome Reception</td>
<td>CONFERENCE DINNER</td>
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Thursday, September 13

13:30  Opening
G. Weiss, Head of the Local Organising Committee
R. Landmann, President of the EMDS
C. Sorg, Rector of the Medical University Innsbruck, Austria

Symposium I:  Phagocyte innate resistance mechanisms

Chair:  R. Landmann, Basel, Switzerland
        C. Sorg, Innsbruck, Austria

14:00  O_1  Neutrophil extracellular traps and metolloproteinases
(C. Urban, Berlin, Germany)

14:30  O_2  Pentraxins and beyond
(A. Mantovani, Milan, Italy)

15:00  O_3  The Macrophage Adhesion Molecule Sialoadhesin Modulates B cell
         Responses
(Oetke C. et al., University of Dundee, Scotland)

15:15  O_4  PTEN importantly contributes to PMN influx during pneumococcal
         pneumonia in vivo
(Matt U. et al., CeMM - Research Center for Molecular Medicine of the Austrian
         Academy of Sciences, Vienna, Austria)

15:30  O_5  Senescence regulates macrophage polarization and angiogenesis at sites of
         tissue injury
(Kelly J. et al., Washington University School of Medicine, US)

15:45  O_6  LPS and interferons induce surface expression and activity of ADP-ribosyl-
         transferase ART2.1 on murine bone marrow-derived macrophages
(Brass A. et al., University Medical Center Hamburg-Eppendorf, Germany)

16:00  Poster Session I
Presentation of posters 1 – 32 (P_1 – P_32)
Thursday, September 13

Symposium II: Macrophages/DC as therapeutic targets

Chair: D. Fuchs, Innsbruck, Austria
       A. Steinkasserer, Erlangen, Germany

17:30 O_7 Cytokine resistance pathways in macrophages and DCs
       (T. Decker, Vienna, Austria)

18:00 O_8 New approaches in anticytokine therapies for inflammatory diseases
       (H. Tilg, Hall, Austria)

18:30 O_9 IgG opsonization of HIV impedes provirus formation in and infection of dendritic cells and subsequent long-term transfer to T cells
       (Wilflingseder D. et al., Innsbruck Medical University, Austria)

18:45 O_10 The adjuvant activity of Trehalose-6,6-dibehenate: activation of ......
       (Werninghaus K. et al., Technical University Munich, Germany)

19:00 O_11 Macrophage responses to hypoxia and Angiopoietin-2
       (Lewis C.E. et al., University of Sheffield Medical School, UK)

19:15 O_12 Role of PPAR-gamma in macrophages: involvement in Listeria infection-induced responses
       (Szanto A. et al., University of Debrecen, Hungary)

19:30 Welcome Reception
Friday, September 14

**Symposium III:**  Intestinal macrophages and dendritic cells – From host pathogen interaction to immune tolerance

*Chair:*  C. Bogdan, Erlangen, Germany  
H. Tilg, Hall, Austria

09:00   O_13 Immunotolerance to bacterial colonisation in the gut  
(M. Hornef, Freiburg, Germany)

09:30   O_14 Differential expression of TREM-1 in intestinal macrophages in IBD and normal control  
(C. Mueller, Bern, Switzerland)

10:00   O_15 Capnocytophaga canimorsus prevents phagocytosis & killing by macrophages  
(Meyer S. et al., University of Basel, Switzerland)

10:15   O_16 Hypoxia reprograms the transcriptome of iDC: modulation of the chemokine/receptor pathway  
(Ricciardi A. et al., Gaslini Institute, Genoa, Italy)

10:30   O_17 Alternative macrophage activation correlates with reactivation and pathology in murine tuberculosis  
(Schreiber T. et al., Research Center Borstel, Germany)

10:45   O_18 Th1/Th2 differentiation in the murine model of Leishmania major infection is controlled by dendritic cell differentiation state and their interaction with NKT cells  
(Wiethe C. et al., University Hospital Erlangen, Germany)

11:00   COFFEE BREAK
Friday, September 14

**Symposium IV: Antigen presentation by macrophages and DCs**

*Chair:*  
M. Lutz, Würzburg, Germany  
M. Thurnher, Innsbruck, Austria

11:30 O_19 CD1 mediated Ag-presentation pathways linking immunity to lipid metabolism  
(G. de Libero, Basel, Switzerland)

12:00 O_20 Differential intracellular localisation of novel stabilin-1 interacting synaptotagmin SI-Syt in human macrophages  
(Krusell L. et al., University of Heidelberg, Germany)

12:15 O_21 Differentially expressed molecules during the maturation of dendritic cells  
(Ortner D. et al., Innsbruck Medical University, Austria)

12:30 O_22 Abnormal Activation of RhoA and RhoB in SWAP-70-/- DCs Leads to Deficient Expression of Surface MHCII  
(Ocaña-Morgner C. et al., University of Technology, Dresden, Germany)

12:45 O_23 Myeloid DC and not plasmacytoid DC or macrophages are essential for the activation of natural killer cells in visceral leishmaniasis  
(Schleicher U. et al., University Clinic of Freiburg, Germany)

13:00 O_24 Absence of bystander tolerance to fetal calf serum in a peptide-specific dendritic cell vaccine model of autoimmunity  
(Rößner S. et al., University Hospital Erlangen, Germany)

13:15 O_25 Expression of CD25 on myeloid dendritic cells as an accessory regulatory molecule  
(Driesen J. et al., University of Cologne, Germany)

13:30 LUNCH
Friday, September 14

**Symposium V: Iron metabolism and macrophage effector function**

*Chair:* M. Rehli, Regensburg, Germany  
G. Weiss, Innsbruck, Austria

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tbody>
<tr>
<td>14:30</td>
<td>O_26</td>
<td>Iron homeostasis and macrophage infection</td>
<td>U.E. Schaible, London, UK</td>
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<tr>
<td>15:00</td>
<td>O_27</td>
<td>Hepcidin and antimicrobial peptides</td>
<td>T. Ganz, Los Angeles, US</td>
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<td>15:30</td>
<td>O_28</td>
<td>Analysis of the mechanisms underlying trypanosomiasis-associated anemia with focus on erythrophagocytosis and iron-homeostasis</td>
<td>Stijlemans B. et al., Vrije Universiteit Brussel, Belgium</td>
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<tr>
<td>15:45</td>
<td>O_29</td>
<td>Salmonella typhimurium infection and iron metabolism in mice presenting constitutive hemolytic anemia</td>
<td>Canonne-Hergaux F. et al., Institut de Chimie des Substances Naturelles, Gif-sur-Yvette, France</td>
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<tr>
<td>16:00</td>
<td>O_30</td>
<td>Interferon-γ limits the availability of iron for intramacrophage Salmonella typhimurium</td>
<td>Nairz M. et al., Innsbruck Medical University, Austria</td>
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<td>16:15</td>
<td>O_31</td>
<td>Regulation of macrophage peroxiredoxins by nitric oxide</td>
<td>Abbas et al., Institut de Chimie des Substances Naturelles, Gif-sur-Yvette, France</td>
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16:30 **Poster Session II**  
Presentation of posters 33 – 64 (P_33 – P_64)

18:00 **EMDS Business Meeting**

19:30 **CONFERENCE DINNER - Urichhaus**

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Wyeth
Saturday, September 15

**Symposium VI:** Inherited and acquired defects of phagocyte function (1)

*Chair:* C. Heufler-Tiefenthaler, Innsbruck, Austria
L. Ziegler-Heitbrock, Gautong, Germany

09:00  O_32  TLR pathway defects  
(J.C. Bustamante, Paris, France)

09:30  O_33  Perforins and hemophagocytosis  
(U. zur Stadt, Hamburg, Germany)

10:00  O_34  Transcription factor pu.1 Controls transcription start site positioning and alternative TLR4 promoter usage  
(Lichtinger M. et al., University Regensburg, Germany)

10:15  O_35  Deficiency of the PI3K regulatory subunit p85alpha upregulates TLR4 signaling in vitro and in vivo  
(Schabbauer G. et al., Medical University, Vienna, Austria)

10:30  O_36  SOCS-3 in macrophages/neutrophils regulates susceptibility to Mycobacterium tuberculosis infection  
(Rückerl D. et al., Research Center Borstel, Germany)

10:45  O_37  Underlying mechanisms by which IL-10 dependent alternatively activated macrophages limit inflammation-induced tissue damage: parasite infection as a model  
(Bosschaerts T. et al., Vrije Universiteit Brussel, Belgium)

11:00  COFFEE BREAK
**Symposium VI: Inherited and acquired defects of phagocyte function (2)**

*Chair: R. Beelen, Amsterdam, Holland
N. Romani, Innsbruck, Austria*

11:30  **O_38**  Defects of DC migration and function  
(P.-A. Oldenborg, Umeå, Sweden)

12:00  **O_39**  Identification and characterization of novel scavenger macrophages of apoptotic thymocytes in the human thymus  
(Takahashi K. et al., Okayama University Medical School, Japan)

12:15  **O_40**  Effects of Mycobacterium tuberculosis on DC apoptosis, maturation and oxygen free radicals production  
(Zenaro E. et al., University of Verona, Verona, Italy)

12:30  **O_41**  Herpes Simplex Virus Type 1 (HSV-1) Induces CD83 Degradation in Mature Dendritic Cells with Immediate Early Kinetics via the Cellular Proteasome  
(Kummer M. et al., University Hospital Erlangen, Erlangen, Germany)

12:45  **O_42**  Activin A induces dendritic cell migration through the secondary production of CXCL12 and CXCL14  
(Salogni L. et al., University of Brescia, Italy)

13:00  LUNCH
Saturday, September 15

DC-THERA European Network – IMAGING Workshop

Chair: C. Figdor, Imaging Platform Leader (Nijmegen)

14:00  O_43 High definition flow cytometry: unravelling the immune response
       (P.K. Chattopadhyay, Vaccine Research Center, NIAID, NIH, US)

14:35  O_44 Migration of T cell within lymphoid organs
       (R. Forster, Hannover Medical School, Germany)

15:10  O_45 Amoeboid T cell migration and interaction with DC
       (P. Friedl, University of Wurzburg, Germany)

15:45    COFFEE BREAK

16:15  O_46 Imaging immune responses in vivo
       (L. Fetler, Institute Curie, France)

16:50  O_47 MRI cell tracking using magnetic nanoparticles for non invasive
       monitoring of cell therapy
       (J. Bulte, The Johns Hopkins University School of Medicine, US)

17:25  O_48 Tracking and monitoring DC based vaccines in melanoma patients
       (J. de Vries, University of Nijmegen, The Netherlands)

18:00    CLOSING REMARKS
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