

## Welcome

The recent years have been very exciting in immunodeficiency research. We have learned enormously about the function of the human immune system from patients with rare primary immunodeficiencies. Advances in basic immunology have paved the way for this and will continue to provide the groundwork for translational research leading to innovative therapies.

The Centre of Chronic Immunodeficiency (CCI), the Collaborative Research Centre 620 Immunodeficiency – Clinical manifestations and animal models (SFB 620) and the EU consortium on systems biology of T cell activation (SYBILLA) are an example of a platform for the development of research, diagnosis and treatment of genetically determined immunodeficiency.

We cordially invite you to the joint symposium „Immunodeficiency and beyond“ and are looking forward to discuss the most important recent developments in the field of immunodeficiency with national and international experts.

Prof. Stephan Ehl  
CCI

Prof. Hanspeter Pircher  
SFB 620

Prof. Wolfgang Schamel  
SYBILLA

### Travel to and from Freiburg:

#### By air:

The nearest Airport is Basel-Mulhouse. Frankfurt Intern. Airport and Zurich Intern. Airport are both connected with Freiburg by highspeed train link (ICE).

#### By train:

ICE and Intercity trains connect Freiburg with all major centers in Europe.

#### By car:

Leave the A5 motorway at ‚Freiburg Mitte‘ and follow signs ‚Universitätszentrum‘.

### Venue:

Albert-Ludwigs-Universität Freiburg  
Kollegiengebäude I  
Aula 1. OG  
Platz der Universität 3  
79098 Freiburg  
47° 59,618' N 007° 50,766' E

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Please register until February 29, 2012

presented by  
Centre of Chronic Immunodeficiency - CCI  
Collaborative Research Centre 620 Immunodeficiency:  
Clinical manifestations and animal models - SFB 620  
Systems Biology of T-Cell Activation - SYBILLA  
in cooperation with  
kongress & kommunikation



Das Symposium ist mit  
19 CME Punkten zertifiziert



thanks to



GEFÖRDEBT VOM  
Bundesministerium  
für Bildung  
und Forschung



Thursday, March 29

Session 1 | Chair Hanspeter Pircher

- 13:30 Introduction | Welcome  
**Stephan Ehl, Hanspeter Pircher, Wolfgang Schamel**
- 13:35 **Mark Davis**  
T cell receptor organization and dynamics in the immunological synapse
- 14:05 **Wolfgang Schamel**  
Discrimination of high from low affinity antigens by the TCR
- 14:25 **Bernard Malissen**  
LAT signaling pathology – an „autoimmune“ condition without T cell self-reactivity
- 14:55 **Michael Bevan**  
Controlling the T cell response
- 15:25 **Stephan Ehl**  
Hemophagocytic syndrome – a threshold disease determined by antigen persistence
- 15:40 Coffee Break

Session 2 | Chair Stephan Ehl

- 16:10 **Thomas Boehm**  
Comparative functional genomics in immunodeficiency research
- 16:25 **Alain Fischer**  
Primary T cell immunodeficiencies and autoimmunity
- 16:55 **Hans-Reimer Rodewald**  
Immunodeficiency and T cell leukemia
- 17:25 **Antonella Viola**  
Defective T cell migration and human pathology
- 17:45 **Ana Izcue**  
Regulation of intestinal T cell responses
- 18:00 **Bodo Grimbacher**  
The role of T cells in the mucosal host defence against candida

Friday, March 30

Session 3 | Chair Thomas Boehm

- 08:30 **Luigi Notarangelo**  
SCID, evolving stories
- 09:00 **Douglas Fearon**  
Immune suppression and cachexia of cancer: A stromal cell lineage
- 9:30 **Arup Chakraborty**  
How to hit HIV where it hurts
- 10:00 **René van Lier**  
Blood and beyond: Properties of virus-specific human T cells
- 10.30 Coffee Break

Session 4 | Chair Wolfgang Schamel

- 11:00 **Robert Thimme**  
T cell failure in chronic hepatitis C virus infection
- 11:15 **Hanspeter Pircher**  
Phenotype and function of memory CD8 T cells in murine salivary glands
- 11:30 **Thomas Höfer**  
Cytokine memory in T helper cells
- 12:00 **Gottfried Baier**  
PKCalpha is a key regulator of Th17 CD4+ T cell effector functions
- 12:20 **Riitta Lahesmaa**  
New insights into molecular mechanisms of human T cell differentiation
- 12.40 Lunch Break

Friday, March 30

Session 5 | Chair Michael Reth

- 14:00 **Marina Cavazzona-Calvo**  
Immunodeficiencies: From the molecular diagnosis to innovative therapies
- 14:30 **Klaus Warnatz**  
Altered BCR signalling: Learning from human immunodeficiency
- 14:45 **Pamela Schwartzberg**  
Regulating lymphocyte interactions
- 15:15 **Alexander Rudensky**  
Regulatory T cells and control of inflammation
- 15.45 Coffee Break

Session 6 | Chair Hans-Hartmut Peter

- 16:15 **Michael Reth**  
The dissociation activation model of B cell activation
- 16:30 **Klaus Rajewsky**  
Modeling Epstein-Barr-Virus driven lymphoma genesis and immune surveillance in mice
- 17:00 **Michael Neuberger**  
Antibody diversity: Deficiencies and excesses
- 17:30 **Hermann Eibel**  
Human Baff-receptor deficiency
- 17:45 **Reinhard Völl**  
The unfolded protein response: Survival elixir and Achilles' heel for plasma cells

Evening Program

Friday, March 30  
19:30 Dinner for all  
LeBuffet Freiburg | 4th floor  
Kaiser-Joseph-Straße 165  
79098 Freiburg

Saturday, March 31

Session 7 | Chair Andreas Diefenbach

- 09:00 **Christophe Benoist**  
Genomics of tolerance
- 09:30 **Stefan Bauer**  
Control of endogenous retrovirus (ERV) and ERV-induced tumors by nucleic acid recognizing TLRs
- 10:00 **Philipp Henneke**  
Nucleotide sensing links bacterial processing and inflammatory signaling in macrophages
- 10:15 **Jean-Laurent Casanova**  
Toward a genetic theory of infectious diseases
- 10:45 **Peter Stäheli**  
Interferon-lambda determines the intestinal epithelial antiviral host defense
- 11.00 Coffee Break

Session 8 | Chair Philipp Henneke

- 11:30 **Christoph Klein**  
Monogenic defects of human immunity – genes and gene therapy
- 12:00 **Klaus Schwarz**  
Novel genetic defects in Human Severe Combined Immunodeficiency
- 12:15 **Georg Häcker**  
Gene-deficiencies in neutrophils: Defect in survival or in differentiation?
- 12:30 **Marco Colonna**  
NK cells in mucosal immune responses
- 13:00 **Andreas Diefenbach**  
Transcriptional control of effector fate decisions of innate lymphocytes