



University of Zurich

**ZIHP | CIHP | zürich**

Zentrum für Integrative Humanphysiologie  
Center for Integrative Human Physiology

# Center for Integrative Human Physiology (CIHP)

## Opening Symposium



September 29th and 30th, 2005

Grosser Hörsaal Nord 1, UniversitätsSpital Zürich

Frauenklinikstrasse 10, 8091 Zürich

Information and registration

<http://www.zihp.unizh.ch/>

University of Zurich

Center for Integrative Human Physiology (CIHP)

Institute of Physiology, Winterthurerstrasse 190, 8057 Zurich

Tel. 044 635 50 88/47, E-mail: [zihp@physiol.unizh.ch](mailto:zihp@physiol.unizh.ch)

In close collaboration with the University Research Priority Program „Integrative Human Physiology“

<http://www.ufsp.unizh.ch/physiol/>

## The Center for Integrative Human Physiology

In recent years, biomedical research has become more and more focused on the level of cells, molecules and the corresponding genes. However, an integration of findings at the cellular and molecular level is necessary for an understanding of complex functions at the level of organs and the entire organism. The Center for Integrative Human Physiology (CIHP) of the University of Zurich (UZH) was established to accentuate integrative aspects in research aiming to understand human physiology and pathophysiology. The interactions and collaborations of research groups will broaden the competence and foster the exchange between basic and clinical-oriented research.

The aim of this opening symposium is to bring together all CIHP members, to give junior researchers a platform to present and discuss their work and to exchange ideas concerning integrative approaches in physiology.

### Further information and online registration

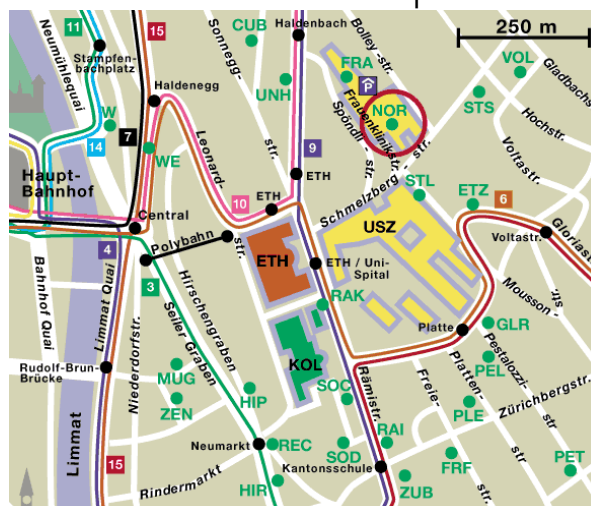
<http://www.zihp.unizh.ch/>

Registration is free of charge. Dinner (September 29th) and lunch (September 30th) will be offered to all registered participants.

Call for posters: Junior researchers (PhD students, postdoctoral researchers) are especially encouraged to contribute a poster.

**Deadline for registration and submission of posters:  
Thursday, September 22nd, 2005**

Orientation map



## Program

### Thursday, September 29th, 2005

14:00 Arrival

14:30 **Introduction**

Heini Murer

President of the Steering Committee of the CIHP, UZH

Alexander Borbély

Vice President for Research, UZH

14:45 **Opening Lecture**

*C. elegans: A Rosetta Stone for deciphering the human genetic blueprint*

Kevin Strange

Vanderbilt University, Nashville, USA

15:45 Coffee

16:15 **Keynote Lecture Application Area B: Oxygen and Movement**

*Human research in hypoxia between bench and bedside*

Peter Bärtisch

Medical University Clinic, Heidelberg, Germany

17:15 **Oral Communications**

*Cardioprotection by pre- and postconditioning: from genes to humans*

Michael Zaugg

Institute of Anesthesiology and Institute of Pharmacology & Toxicology, UZH (Application Area A)

*Role of hypoxia in rheumatoid arthritis joint destruction*

Oliver Distler

Department of Rheumatology, UZH (Application Area B)

*The Fas-FLIP pathway in insulin production and secretion: good or evil?*

Desirée Schumann

Department of Internal Medicine, UZH (Application Area C)

*Imaging genetic differences*

Dominique J.-F. de Quervain

Division of Psychiatry Research, UZH (Application Area D)

18:15 **Keynote Lecture Application Area D: Central Regulation and Coordination**

*Vestibular loss causes hippocampal atrophy and impaired spatial memory in humans*

Thomas Brandt

Neurological Clinic, Ludwig-Maximilian-University Munich, Germany

19:15 Dinner

## Friday, September 30th, 2005

### 08:30 Oral Communications

*Tissue engineering of cardiovascular structures*

Simon P. Hoerstrup

Clinic for Cardiovascular Surgery, UZH (Application Area A)

*Adaptation of breathing patterns and ventilation at high altitude*

Konrad E. Bloch

Pneumology, UZH (Application Area B)

*Hydroxycitric acid delays intestinal glucose absorption*

Peter Wielinga

Institute of Veterinary Physiology, UZH (Application Area C)

*Physiological mechanisms of chronic neurogenic pain*

Daniel Jeanmonod

Neurosurgery Clinic, UZH (Application Area D)

### 09:30 Keynote Lecture Application Area C: "Milieu intérieur"

*Glucose as a signal to control glucose and energy homeostasis*

Bernard Thorens

Department of Pharmacology and Toxicology, University of Lausanne

10:30 Coffee

### 11:00 Oral Communications

*Vascular protection by high-density lipoproteins*

Arnold von Eckardstein

Institute of Clinical Chemistry, UZH (Application Area A)

*Retinal oxygen: implications on vision*

Christian Grimm

Eye Clinic, UZH (Application Area B)

*Kidney and liver glutamine transporters involved in pH homeostasis*

Mital Dave

Institute of Physiology, UZH (Application Area C)

*Regulation of adolescent sleep: implications for behavior*

Oskar Jenni

University Children's Hospital Zurich (Application Area D)

### 12:00 Poster Session, Lunch

### 14:00 Keynote Lecture Application Area A: Cardiovascular

*Integrative human physiology and the cardiovascular system - a step into the future?*

Thomas Lüscher

Cardiology, UZH

15:00 **Concluding remarks:** Heini Murer