Why should I attend this meeting?

Our body is well equipped to cope with reduced oxygenation (hypoxia). While hypoxic conditions occurring at high altitude lead to an acclimatisation processes, more severe conditions require intense responses to minimize tissue damage. Aim of our Monte Verità meeting is to emphasize the importance to link molecular aspects of hypoxia to relevant physiological and pathological aspects of human medicine including endurance training, high altitude acclimatization and disease, tissue ischemia (e.g. stroke, myocardial infarction or multi-organ failure in circulatory shock) and rheumatoid arthritis. Interestingly, lack of oxygen is a common ground of all mentioned diseases. Distinguished speakers will give us a review of the current knowledge and highlight the new aspects.

Note that this is a small meeting with a maximum of 100 participants (including speakers) that will allow intensive discussions.
<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday, 25.11.07</th>
<th>Monday, 26.11.07</th>
<th>Tuesday, 27.11.07</th>
<th>Wednesday, 28.11.07</th>
<th>Thursday, 29.11.07</th>
<th>Friday, 30.11.07</th>
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<tr>
<td>08:30-10:00</td>
<td></td>
<td>HIFs and PHDs</td>
<td>Pulmonary hypertension</td>
<td>Acclimatisation to high altitude I</td>
<td>Transgenic models II</td>
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<tr>
<td>10:30-12:00</td>
<td>Arrival</td>
<td>Cellular ROS production</td>
<td>oral presentations from abstracts</td>
<td>Acclimatisation to high altitude II</td>
<td>Epo and hypoxic/ischemic tissue</td>
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<td>12:30-14:00</td>
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<td>Poster session I (finger food)</td>
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<td>Poster session II (finger food)</td>
<td>Lunch</td>
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<td>14:30-16:00</td>
<td></td>
<td>Transgenic models I</td>
<td>Excursion</td>
<td>High altitude illness I</td>
<td>RA and microcirculation</td>
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<tr>
<td>16:30-18:00</td>
<td>Registration</td>
<td>Hypoxia and ventilation</td>
<td></td>
<td>High altitude illness II</td>
<td>The hypoxic eye</td>
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<tr>
<td>18:00</td>
<td>Keynote speaker: T. Hornbein</td>
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<td>Public lecture: M. Maggiorini</td>
<td>Keynote speaker: O. Oelz</td>
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<tr>
<td>19:00</td>
<td>Dinner</td>
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Provisional Programme (version 03.09.07)

Sunday:
Keynote Speaker
Tom Hornbein: Everest, the world’s highest metaphor

Monday:
HIFs and PHDs
Peter Ratcliffe (UK) HIFs and PHDs: an update
Roland Wenger (SUI) Regulation of the PHD oxygen sensors
Joachim Fandrey (GER) Visualising cellular oxygen sensing

Cellular ROS production
Paul Schumacker (USA) The impact of oxygen radicals
Heimo Mairbäurl (GER) Control of epithelial transport by oxygen radicals in hypoxia
Agnes Görlach (GER) Regulation of HIF by ROS

POSTERSESSION I

Transgenic models I
Randall Johnson (USA) Targeting HIFs and PHDs in transgenic mice
Kai-Uwe Eckardt (GER) HIF as a therapeutic target for organ protection
Max Gassmann (SUI) Overexpressing erythropoietin in mice

Hypoxia and ventilation
Jean-Marc Pequinot (FRA) Central regulation of ventilation
Joseph Vincent (CAN) Hormonal regulation of ventilation
NTBA
Tuesday:

Pulmonary hypertension

Jean-François Tolsa (SUI) Persistent pulmonary hypertension of the newborn
Ekkehard Grünig (GER) Genetic link between pulmonary hypertension at low and high altitude
Almaz Aldashev (KYR) Gene polymorphisms associated with high-altitude pulmonary hypertension in Kyrgyz highlanders

Oral presentation of selected abstracts

Afternoon: Excursion

Wednesday:

High altitude exposure

Acclimatisation to high altitude I

Konrad Bloch (SUI) Ventilation
Ben Levine (USA) Blood
José A.L. Calbet (ESP) Systemic circulation and heart

Acclimatisation to high altitude II

Bengt Kayser (SUI) Aerobic performance
Robert Naeije (BEL) Exercise performance and the right heart
Hans Hoppeler (SUI) Skeletal muscle

POSTERSESSION II

High altitude illnesses I

Peter Bärtsch (GER) Acute altitude illnesses: a clinical overview
Ralph Baumgartner (SUI) The brain in acute mountain sickness (AMS)
Erik Swenson (USA) Pathophysiology of high altitude pulmonary edema (HAPE)
### High altitude illnesses II
- **Andrew Peacock** (UK) Genetics of HAPE
- **Fabiola Leon-Velarde** (Peru) Acetazolamide’s impact on the ventilatory response to CO$_2$
- **Marco Maggiorini** (SUI) High altitude pulmonary hypertension and pulmonary edema: treatment

### Public lecture (Italian)
- **Marco Maggiorini:** more than 20 years high altitude research at the Capanna Regina Margherita (4559 m)

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### Thursday

#### Clinical diseases involving hypoxia

##### Transgenic models II
- **Eli Keshet** (ISR) Hypoxia and angiogenesis
- **Amato Giaccia** (USA) HIF and cancer in mouse models
- **Norbert Weissmann** (GER) Hypoxia and pulmonary hypertension in rodents

##### Erythropoietin’s beneficial effect on the hypoxic/ischemic tissue
- **Christoph Dame** (GER) Epo and neonates
- **Hannelore Ehrenreich** (GER) Epo against stroke: clinical trials
- **Pietro Ghezzi** (ITA) Functions of Epo in the brain

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### LUNCH

### Hypoxia in the critically ill patient and rheumatoid arthritis
- **Luciano Gattinoni** (ITA) Permissive hypoxia in the critically ill patient
- **Mervyn Singer** (UK) Circulatory hypoxia and the mitochondria
- **Steffen Gay** (SUI) Joint destruction is accelerated by hypoxia at sites of synovial invasion into cartilage and bone in RA

### The hypoxic eye
- **Christian Grimm** (SUI) Retinal responses to hypoxia: lessons for neuroprotection
- **David Shima** (UK) Getting nervous: VEGF-A has multiple roles during ocular neovascular disease

### Keynote Speaker
- **Oswald Oelz** about headaches and high altitude

### BANQUET
- **Serata Ticinese**
Congress Registration and Information

**Congress secretariat:**
Cony Cajet and Hanna Bosshard
Medical Intensive Care Unit
University Hospital Zurich
phone +41 44 255 3092
medizinische.ips@usz.ch

Registration has to be performed by e-mail to the congress office: medizinische.ips@usz.ch
Please provide: First name, name, title, affiliation, e-mail address, phone number

**Registration deadline: October 1st 2007**
**Registration fee:** CHF 1,200.- (including accommodation, full meals and excursion)
(about EUR 710.- or US$ 960.-)
Because of limited space for participants, we suggest early registration. We highly recommend to submit an abstract that might be selected for oral or poster presentation.
Please inform us with whom you want to share a room (mostly double rooms available at Monte Verità and Ascona)

Registration fee has to be paid until **October 15th** to the following banking account:
Zürcher Kantonalbank Switzerland
Account-Nr. 1121-0233.034 (Hypoxia)
Clearing-Nr. 700
IBAN CH45 0070 0112 1002 3303 4
SWIFT ZKBKCHZZ80A
Please note that your registration will not be confirmed until we received your full payment in Swiss Francs (CHF). Thus, advise your bank to transfer the full amount.

**Abstracts:** should be submitted not later than **October 1st 2007**
Instructions: title, author(s), institution, country, text (not more than 250 words), acknowledgments

**Travel information:**
By Air:
International Airports:
Zürich-Kloten (Switzerland)
Milano-Malpensa (Italy)
Direct flight connections from Zürich-Kloten to Lugano-Agno exist

By Train:
Train connections are available from European cities through Basel - Bellinzona – Locarno or Zürich – Bellinzona-Locarno; Travellers from Italy: Milano Centrale – Lugano - Bellinzona – Locarno
Shuttle connections: Special shuttle from Milano-Malpensa to Lugano railway station available.
Shuttle connection Locarno railway station – Ascona – Monte Verità.

Links for further travel informations:
Train: www.sbb.ch,
Region Locarno-Ascona : www.maggiore.ch,
Link for Monte Verità: www.ticino.ch/8/business_details.jsp?lang=en&id=42592
Link for Centro Stefano Franscini: www.csf.ethz.ch

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