

Name of research institute or organization:

**Physiologisches Institut, University of Zürich**

---

Title of project:

Applied physiology: “Physiological responses to high altitude exposure”

---

Project leader and team:

Prof. Dr. Jana Kohl, project leader

---

Project description:

The yearly expedition to the Jungfrauoch is organized for medical students in their 4th semester as a part of the practical education in physiology. In self observation and self experiments as well as in experiments with their colleagues the students have the opportunity to experience the effects of hypoxia in high altitude. The visit of the HFSJG facilities belongs to the most impressive parts of the expedition and the possibility to carry out there even apparatusively quite complicated physiological measurements is gratefully acknowledged. In 2001 over 100 participants have visited the “Forschungsstation”. The students measured various respiratory parameters, heart rate and analyzed urine to assess the changes in acid-base balance. The results were discussed later on in physiological lessons and contributed substantially to students understanding of physiological regulations.

Key words

hypobaric hypoxia, hypoxia-induced respiratory and circulatory responses

---

Collaborating partners/networks:

Prof. Dr. H. Murer, Prof. Dr. Ch. Bauer, Prof. Dr. E. Berger, Prof. Dr. F. Verrey

---

Scientific publications and public outreach 2001:

The results from the 2001 expedition were used solely for teaching

---

Address:

Physiologisches Institut  
Universität Zürich  
Winterthurerstrasse 190  
CH-8057 Zürich

---

Contacts:

Jana Kohl Tel. +41 1 635 5011 e-mail: [jana@physiol.unizh.ch](mailto:jana@physiol.unizh.ch)  
URL: <http://www.unizh.ch/physiol/index.shtml#>