

MiP1999

1ST MIP MEETING, SCHRÖCKEN, VORARLBERG, AUSTRIA; 02-04 SEPT. 1999

At the present exciting time in the history of mitochondrial and cellular bioenergetics, it is just appropriate to take one step away from the rush of daily events, for reflections on the history, discussions of the present and imaginations into the future of Bioenergetics.

FINAL PROGRAM

Thursday, 99-09-02 Arrival in Schröcken, Hotel Mohnenfluh

Friday, 99-09-03 **From History to The Future of Bioenergetics**, Hotel Mohnenfluh

MITOCHONDRIAL ENERGY TRANSFORMATION

Chair: Valdur Saks

Keith Garlid (Portland, USA)

Slip, leak and energy coupling - a brief history of the flowering of false logic in bioenergetics. (09:00)

Erich Gnaiger (Innsbruck, A)

P/O ratios and efficiency - from simple saturation to compartmentalized optimization. (09:45)

Coffee

(10:30)

BEYOND MITOCHONDRIAL ENERGY TRANSFORMATION

Dieter Brdiczka (Konstanz, D)

From simple energy transformers to the control regulator of life. (11:00)

Richard K. Porter (Dublin, IR)

Ageing and Mitochondrial Function (11:45)

General Discussion with Coffee

(12:30)

Lunch

(13:00)

MITOCHONDRIAL RESPIRATORY CONTROL AND REGULATION

Chair: Dieter Brdiczka

Valdur Saks (Grenoble, F & Tallin, Est) Compartmention - from simple kinetics to a bypass of metabolic control analysis. (14:30)

Coffee/Tea

(15:15)

CONTROL BY CYTOCHROME C OXIDASE AND REGULATION BY CYTOCHROME C

Bernhard Kadenbach (Marburg, D)

Regulation of energy metabolism via nucleotide interaction, cAMP-dependent phosphorylation, and slip in cytochrome *c* oxidase. (15:45)

Andrey V. Kuznetsov (Innsbruck, A)

Mitochondrial respiratory control - from simple adenylate regulation to cytochrome *c* release. (16:30)

Kurt Kwast (Urbana, USA)

Oxygen-dependent isoforms of yeast cytochrome *c* oxidase subunit V and cytochrome *c*. (17:15)

General Discussion with Coffee

(18:00)

Dinner

(19:00)

Saturday, 99-09-04 **The Future of Bioenergetics**, Hotel Mohnenfluh

SPECIAL REPORTS

Chair: Keith Garlid

Douay Olivier , Moal F. and Cales P. (Angers, F)	Action of nitric oxide on the mitochondrial respiratory chain in cirrhotic rats treated with a NO specific donor (09:00)
Barbara Lassnig (Innsbruck, A)	Respiratory control by oxygen in endothelial cells: Comparison of isolated mitochondria, permeabilized and intact cells. (09:15)
Kathrin Renner (Innsbruck, A)	Endogenous respiration and capacity of cytochrome <i>c</i> oxidase in lymphocyte cells with Bcl-2 +/- expression. (09:30)
Rodrigue Rossignol (Bordeaux, F)	Threshold effect and tissue specificity in mitochondrial diseases. (09:45)
Frank Ter Veld (Utrecht, NL)	Characterization of heart mitochondria from creatine kinase-deficient mice. (10:00)
Alexander Rück (Konstanz, D)	The future of the ANT exchanger as regulator of apoptosis and Ca ²⁺ homeostasis. (10:15)
<i>General Discussion with Coffee</i>	(10:30)
<u>HIGH ALPINE BIOENERGETICS SEMINAR – THE FUTURE?</u>	(11:15)
<i>Lunch</i>	(12:00)

Saturday, 99-09-04 **Future and History of Alpine Farming and Cheese Making**

13:00 Walk to lake Körbersee and Hotel Körbersee

16:00 Cheese reception at Alpe Batzen;
old and new Alpine Farm Hut

19:00 Music and slides, Körbersee, over night stay

Travel: Schröcken (Bregenzer Wald, Hochtannberg, Vorarlberg) is an Alpine village, 1.300 m above sea level at the steeple of its church. It is located c. 150 km from Innsbruck in the scenic valley of the Bregenzer Wald, at the slope of the Hochtannberg Pass, most famous for its Winter sports facilities. It offers an ideal environment for relaxation and mountaineering in summer and autumn. Schröcken can be reached from Innsbruck by car within 2 h, via the Arlberg Pass (from St. Anton), Flexen Pass to Zürs and Lech, and the Hochtannberg Pass between Warth and Schröcken. Coming via Frankfurt, Stuttgart, Karlsruhe, Straßburg, Basel or Zurich, one drives from Bregenz for 1 h to the far end of the Bregenzer Wald. Let us know your travel plans, so we can arrange local transport.

Hotel Mohnenfluh (Schröcken, 1.269 m above sea level)

Tel: +43 5519 2030 or 2040; Fax: +43 5519 2035

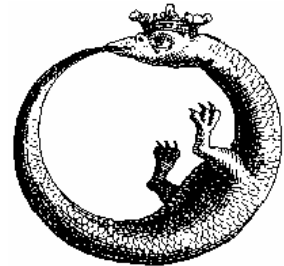
Full board is ATS 660,- per night/day per person, including breakfast and all meals, swimming pool, sauna; day care for children; apartments available.

Hotel Körbersee (Schröcken, Hochtannberg, 1700 m above sea level)

Tel: +43 5519 265; Fax: +43 5519 241

Bed and breakfast is ATS 380,- per night per person, including transport of personal luggage by cable car from Schröcken, a free one hour walk to the hotel, and an obligatory swim in the beautiful chilly lake Körbersee.

Alpe Batzen (1560 m above sea level): **Cheese reception** (Saturday) sponsored by OROBOROS, Bioenergetics and Biomedical Instruments, served by family Moosmann (even if you speak German, you will hardly understand the heavy dialect of grandfather Gottlieb, the parents Ambros and Christl, and the son Christian who continues the art of cheese making; translations will be provided as far as possible). Visit at the old and new alpine farm house, including the old farm house **Alpe Bühel** (1600 m above sea level). These “Alps” are located on the trail from Schröcken to Hotel Körbersee (c. 1 h walk). The path is comfortable and moderately steep at places, no technical difficulties. If some of you wish, an even more gentle walk can be arranged via lake Kalbelesee (1650 m above sea level).



Walking: September is the most predictable month in terms of weather, clear sky and sunshine are usual. No specific mountaineering equipment is required for the excursion (a bathing suit for a swim in the chilly lake Körbersee). Good walking shoes are recommended, and a hat, raincoat and warm pullover may be advantageous. Weather is expected to be excellent, including the possibility of occasional snow falls and chilly evenings. Various easy hikes are possible from Schröcken and from Körbersee. The mountain enthusiasts may bring along mountain boots and gloves for a summer ski event (possibly on Sunday early in the morning, with Firngliders) up to the *very* steep snowfields of the “Braunarlspitze” (2648 m). This adventure depends entirely on optimum weather and mitochondrial power output. Let us know in advance of your interest, such that enough “Firnglider skies” can be arranged (or bring them along).