



## EU-B<sub>12</sub> Meeting in Obergurgl, Austria, May 27 - May 29, 2005

### Tentative Program

#### Friday, May 27

- 08.45            Opening and Welcome  
*Bernhard Kräutler & Bernard Golding*
- 09.00 - 10.00    NMR-Seminar I:  
Introduction into Basic Concepts of NMR in Solution  
*Marc-Olivier Ebert*
- Coffee break
- 10.30 - 11.30    NMR-Seminar II:  
New Methods in NMR of Proteins and their Complexes with B<sub>12</sub>  
*Georg Kontaxis*
- 12.00            Lunch

Individual excursions (if .....)

- 18.00 - 19.00    Electrochemistry-Seminar  
*Bernhard Kräutler*
- 20.00            Conference Dinner

Saturday, May 28

08.30 - 09.10 Cobalamin - an analytical tool in studies of genotoxic agents  
*Margareta Tørnqvist*

09.15 - 10.15 Determination of Glycidol Formed in Food by Cobalamin  
*M. C. Tilotta, J. Haglund, V. Silvari, M. Tørnqvist*

Determination of Oxirane Metabolites of 1,3-Butadiene by Cobalamin  
*V. Silvari, J. Haglund, C. Fred, E. Esmans, M. Tørnqvist*

Identification of DNA Adducts from Reactive Metabolites  
*R. Ghai, B. T. Golding, J. Haglund, M. Tørnqvist, T. K. Munter, W. P. Watson*

Coffee break

10.50 - 12.00 Vitamin B<sub>12</sub> in the Toxicology of Xenobiotics  
*William Watson*

Influence of the Model Truncation for the Isobutyryl-CoA Mutase Reaction - Partial or Full Protonation ?  
*S. Pilbak, A. Croft, L. Poppe*

Nicotinate Fermentation by *Eubacterium barkeri*  
*A. Alhapel, D. J. Darley, E. Eckel, N. Elsner, M. Hornung, S. Plett, M. Schuster, T. Selmer, N. Wagener, A. J. Pierik*

12.30 Lunch



- 14.00 - 14.40 Stepwise Recognition of Cobalamin and its Analogues by the Specific Binders Transcobalamin and Intrinsic Factor  
*Sergey Fedosov*
- 14.45 - 15.45 Activity Measurement on Glutamate Mutase Reconstituted with Homo-Coenzyme B<sub>12</sub>  
*A. Łyskowski, K. Gruber, C. Kratky*
- Probing the Active Sites of 2-Methyleneglutarate and Glutamate Mutase  
*S.-M. Tu, D. Suarez, B. T. Golding*
- Models for Vitamin B<sub>12</sub>-Dependent Enzymatic Reactions: The 'Arginine Claw' of Glutamate Mutase  
*D. Suarez, B. T. Golding, T. Darbre*
- Coffee break
- 16.15 - 17.15 Aromatic Radical Interactions  
*Anna Croft*
- Mechanism of Rearrangement Catalysed by Littorine Mutase from *Datura stramonium*  
*C. Paisz, J. Rétey*
- Synthesis of a Bridged Cobalamin with a Possible Catalytic Activity  
*A. Katona, J. Rétey*
- 17.20 - 18.00 Haptocorrin – the Mysterious Cobalamin Binding Protein  
*Ebba Nexø*
- 18.30 Dinner
- 20.00 - 21.30 Excursion to David's Lodge (weather permitting)



Sunday, May 29

8.30 - 09.10 Cob(II)alamin - Spectator *and* Conductor in Coenzyme B<sub>12</sub>-Dependent Enzymatic Reactions  
*Wolfgang Buckel*

Coffee break

09.40 - 11.00 Corrinoids in the Anaerobic Ether Cleavage Enzyme Systems  
*A. Siebert, S. Studenik, G. Diekert*

"A synthesis of Norvitamin B<sub>12</sub>"  
Part I: How to prepare Cobyric Acid  
*S. Murtaza, P. Butler, B. Kräutler*

"A synthesis of Norvitamin B<sub>12</sub>"  
Part II: Preparation of the Cyclic Phosphate Diester of  $\alpha$ -Ribazole  
*R. van Deursen, P. Butler, B. Kräutler*

"A synthesis of Norvitamin B<sub>12</sub>"  
Part III: The Removal of a Methyl Group of Vitamin B<sub>12</sub>  
*P. Butler, B. Kräutler*

11.00 Closing Remarks  
*Bernhard Kräutler & Bernard Golding*

11.20 Lunch

