

**Szénhidrátkémiai kutatások Magyarországon 2010**  
(Carbohydrate research in Hungary 2010)

**Annual Meeting of the Working Group for Carbohydrate Chemistry of the  
Hungarian Academy of Sciences**  
(Programme)

**Mátrafüred, May 27-28, 2010**

Organized by

Department of Organic Chemistry and Carbohydrate Research Group of the Hungarian Academy of  
Sciences, University of Debrecen

Working Group for Carbohydrate Chemistry of the Hungarian Academy of Sciences  
Cyclolab Cyclodextrin R&D Lab. Ltd., Budapest



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27. May 2009

Thursday

11.00- *Arrival*

12.15-13.00 *Lunch*

13.25 **László Somsák**

**Opening**

13.30-14.20 **Ole Hindsgaul**

Synthetic Chemistry Yields New Tools for Glycobiology

14.25-14.50 **Péter Fügedi**

Substituent and stereoelectronic effects in glycosylations. Part 2.

14.50-15.10 **Katalin Daragics** S. Oscarson

Synthesis of *Neisseria meningitidis* lipopolysaccharide structures by orthogonal protecting group strategy

15.10-15.20 *Break*

15.20-16.10 **Stefan Oscarson**

Conjugate vaccines against fungi based on synthetic oligosaccharides – the only alternative?

J. Szemán, K. Csabai, L.  
Jicsinszky, G. Tárkányi, O.  
Töke,

16.15-16.35 **Milo Malanga**

L. Tölgyesi, F. Fenyvesi, E. Effect of DS on the properties of hydroxypropyl beta-cyclodextrin batches  
Fenyvesi, Gy. Gyémánt, J.  
Kerékgyártó, L.  
Szente

16.35-16.55 **Kata Tuza**

V. A. Karginov, L.  
Jicsinszky

A new antibacterial therapy: blocking of pore forming proteins

16.55-17.05 *Break*

**27. May 2009**

**Thursday**

|             |                       |  |   |
|-------------|-----------------------|--|---|
| 17.05-17.25 | <b>Mihály Herczeg</b> | L. Lázár, A. Borbás, A. Lipták, S. Antus                                 | First sulfonic acid analogue of idraparinix, the anticoagulant pentasaccharide  |
| 17.25-17.45 | <b>Anikó Borbás</b>   | L. Lázár, M. Herczeg, A. Lipták, S. Antus                                | Improved synthesis of sulfonic acid analogue of the nonreducing-end trisaccharide of the antithrombin-binding domain of heparin |
| 17.45-18.05 | <b>János Mótyán</b>   | E. Fazekas, B. Svensson, L. Kandra, J. Harangi, Gy. Gyémánt, P. Bagossi  | Enzymatic synthesis of 4-methylumbelliferyl group-containing maltooligosaccharides as new substrates for $\alpha$ -amylases     |
| 18.05-18.25 | <b>Erzsébet Varga</b> | R. Iványi, I. Fejős, T. Sohajda, Sz. Béni, G. Varga, L. Sente, B. Noszál | Chiral separation of vinca alkaloids  |
| 18.25-18.45 | <b>Eszter Oláh</b>    | É. Fenyvesi  | Determination of cyclodextrin content in CD modified fabrics  |
| 18.45-19.05 | <b>Eszter Brózik</b>  | A. Víg, H. Nagy, É. Fenyvesi   | Determination of cyclodextrin content by complexation (Hungarian)   |
| 19.05-19.25 | <b>Erika Fazekas</b>  | Gy. Gyémánt  | Studies on exo enzymes (Hungarian)  |

**19.30-20.00** *Dinner*

**20.15-20.45** **Committee meeting**

**28. May 2009**

**Friday**

**7.30-8.30**      *Breakfast*

|            |                         |           |  |
|------------|-------------------------|-----------|--|
| 9.00-9.20  | <b>Zsuzsanna Csiki</b>  | P. Fügedi | Synthesis of aza-D-glucuronic acid containing analogs of heparan sulfate oligosaccharides as heparanase inhibitors |
| 9.20-9.40  | <b>Zsolt Jakab</b>      | P. Fügedi | On the way to higher orthogonally protected heparin oligosaccharides: synthesis of a tetrasaccharide intermediate  |
| 9.40-10.30 | <b>Sergio Castellón</b> |           | Transition metal catalysed reactions in the synthesis of natural products - the case of galactosylceramide         |

**10.35-10.45**      *Break*

|             |                           |  |  |
|-------------|---------------------------|--|--|
| 10.45-11.05 | <b>Magdolna Csávás</b>    | A. Borbás, A. Lipták, S. Antus                   | Synthesis of sulfonic acid and <i>N</i> -acetylneuraminic acid containing galactosides by means of radical additions |
| 11.05-11.25 | <b>István Jablonkai</b>   | Sz. Sipos, O. Egyed                              | Diastereoselective synthesis of $\alpha$ - and $\beta$ -glyco-aminonitriles  |
| 11.25-11.45 | <b>Róbert Sendula</b>     | Gy. Sági   | Linear synthesis of new 5-(2-thienyl)-pyrimidine L-nucleosides   |
| 11.45-12.05 | <b>Sándor Kun</b>         | É. Bokor, L. Somsák                              | *C*-Glycosylazole derivatives for glycogen phosphorylase inhibition  |
| 12.05-12.25 | <b>Béla Szócs</b>         | M. Tóth, L. Somsák                               | Synthesis of *C*-glucopyranosyl-oxadiazoles and thiadiazoles   |
| 12.25-12.45 | <b>Ashok Kumar Ambati</b> | E. K. Kövér, T. Z. Tóthné Illyés,<br>L. Szilágyi | Se-glycosides: syntheses and NMR studies   |
| 12.45       | <b>László Somsák</b>      |  | <b>Closing</b>   |

**12.30-**      *Lunch*

## List of Participants



Hindsgaul, Ole  
Oscarson, Stefan  
Castillón, Sergio  
  
Agócs, Attila  
Ambati, Ashok Kumar  
Bokor, Éva  
Borbás, Anikó  
Bozó, Éva  
Brózik, Eszter  
Czifrák, Katalin  
Csávás, Magdolna  
Csíki Zsuzanna  
Daragics, Katalin  
Fazekas, Erika  
Fekete, Anikó  
Fenyvesi, Éva  
Fügedi, Péter  
Gyémánt, Gyöngyi  
Herczeg, Mihály  
Herczegh, Pál  
Jablonkai, István  
Jakab, Zsolt  
Jicsinszky, László  
Kandra, Lili  
Kun, Sándor  
Kónya, Bálint  
Kuszmán, János

Carlsberg Laboratory, Denmark  
Univ. College Dublin, Ireland  
Univ. Rovira y Virgili, Spain  
  
Univ. Pécs, Dept. Biochem. Med. Chem.  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Carbohydrate Res. Group  
G. Richter Pharm. Works, Budapest  
Budapest Univ. Technol. and Economy  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Dept. Org. Chem.  
Chem. Res. Center, Budapest  
Chem. Res. Center, Budapest  
Univ. Debrecen, Dept. Inorg. Chem. and Anal.  
Univ. Debrecen, Carbohydrate Res. Group  
Cyclolab R&D Lab. Ltd.  
Chem. Res. Center, Budapest  
Univ. Debrecen, Dept. Inorg. Chem. and Anal.  
Univ. Debrecen, Carbohydrate Res. Group  
Univ. Debrecen, Dept. Pharm. Chem.  
Chem. Res. Center, Budapest  
Chem. Res. Center, Budapest  
Cyclolab R&D Lab. Ltd.  
Univ. Debrecen, Dept. Inorg. Chem. and Anal.  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Dept. Org. Chem.



## List of Participants



Mándi, Attila  
Mészáros, Csilla  
Mótyán, János  
Nagy, Henrietta  
Nagy, Vera  
Oláh, Eszter  
Páhi, András  
Pintér, István  
Sági, Gyula  
Sendula Róbert  
Somsák, László  
Sipos, Attila  
Sipos, Szabolcs  
Szócs, Béla  
Tollas, Szilvia  
Tuza, Kata  
Tóthné Illyés, Tünde Zita  
Vágvolgyiné Tóth, Marietta  
Varga, Erzsébet  
Vigh, András  
Zsoldosné Mády, Virág

Univ. Debrecen, Carbohydrate Res. Group  
Univ. Bratislava, Slovakia  
Univ. Debrecen, Inst. Biochem. and Mol. Biol.  
Budapest Univ. Technol. and Economy  
Univ. Pécs, Dept. Biochem. Med. Chem.  
Cyclolab R&D Lab. Ltd.  
Univ. Debrecen, Dept. Org. Chem.  
ELTE, Budapest, Dept. Org. Chem.  
Chem. Res. Center, Budapest  
Chem. Res. Center, Budapest  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Dept. Pharm. Chem.  
Chem. Res. Center, Budapest  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Dept. Pharm. Chem.  
Cyclolab R&D Lab. Ltd.  
Univ. Debrecen, Dept. Org. Chem.  
Univ. Debrecen, Dept. Org. Chem.  
Cyclolab R&D Lab. Ltd.  
Budapest Univ. Technol. and Economy  
ELTE, Budapest, Dept. Org. Chem.

