

12:00 IL09 EVOLUTION OF ENZYMES INVOLVED IN SOME CONGENITAL DISORDERS OF GLYCOSYLATION (CDG)
Rafael Oriol, Stuart Moore, Isabelle Chantret, Rosella Mollicone, Patrice Codogno

12:30 Lunch

Auditorium 3.2.14

Chairperson: Elizabeth Hounsell

14:00 PL01 THE GLYCOCONJUGATES OF PROTOZOAN PARASITES: TOWARDS THE EXPLOITATION OF THEIR STRUCTURE AND BIOSYNTHESIS
Terry K. Smith, Arthur Crossman, Charles N. Borissow, Michael J. Paterson, Alex Dix, John S. Brimacombe, **Michael A. J. Ferguson**

Session A₂- Room 8.2.30

Chairperson: Hans Baer

14:50 IL10 DEOXY SUGARS: ENZYMATIC APPROACHES AND SYNTHETIC SOLUTIONS
Werner Klaffke

15:20 IL11 SYNTHETIC EXPLORATIONS TOWARDS 3-DEOXY-3-FLUORO DERIVATIVES OF D-PEROSAMINE
Pavol Kováč

15:50 OC01 RAPID CARBOHYDRATE PROTECTING GROUP MANIPULATIONS ASSISTED BY MICROWAVE DIELECTRIC HEATING
Eva Söderberg, **Jacob Westman**, Stefan Oscarson

16:10 OC02 CONVERSION OF MONOSACCHARIDES INTO POLYHYDROXYCYCLOPENTENES *VIA* RING CLOSING METATHESIS, AN EXPEDITIOUS ROUTES TO PENTENOMYCIN, TREHAZOLIN, AND CARBA-D-FRUCTOFURANOSE
Yousef Al-Abed, Mohindra Seepersaud

Session B₂- Room 8.2.47

Chairperson: Christian Pedersen

- 14:50 IL13* THE INTRINSIC CONFORMATION OF TREHALOSE
Alfred D. French, Glenn P. Johnson, Anne-Marie Kelterer,
Michael K. Dowd, Christopher J. Cramer
- 15:20 OC03 EXTENDED VERSUS SICKLE CONFORMATIONS OF
ALDOHEXOSE DITHIOACETALS IN SOLUTION AND IN
THE SOLID STATE
Derek Horton, Olivier Marcq, Rudy L. Luck, Tongbu Lu
- 15:40 OC04 HOW DO DIFFERENT SOLVENTS INFLUENCE THE
CONFORMATIONAL BEHAVIOR OF CARBOHYDRATES?
CONFORMATIONAL ANALYSIS STRATEGIES TO DETECT
SOLVENT EFFECTS BASED ON MOLECULAR DYNAMICS
SIMULATIONS
Martin Frank, Claus-Wilhelm von der Lieth
- 16:00 OC05 SOLVENT INTERACTIONS DETERMINE CARBOHYDRATE
CONFORMATION
Karl N. Kirschner, Robert J. Woods
- 16:20 OC06 LOW TEMPERATURE INFRARED SPECTROSCOPY OF
HYDROGEN BONDING IN CARBOHYDRATES-
TETRITOLS, PENTITOLS AND PYRANOSIDES.
Mark Rozenberg

Session C₂ – Auditorium 3.2.14

Chairperson: Elizabeth Hounsell

- 14:50 IL14 COMMON STRUCTURAL FEATURES OF NON-
MAMMALIAN PROTEIN-N-GLYCANS AND THEIR ROLE IN
ALLERGY
Friedrich Altmann, Daniel Kolarich, Iain B.H. Wilson
- 15:20 OC07 THE ACCUMULATION OF PHENOLIC GLUCOSIDES IN
POPLAR XYLEM
A. De Bruyn, R. Busson, K. Morreel, G. Goeminne, W. Boerjan,
E. Messens

* IL12 will not be presented.

- 15:40 OC08 STARCH DEGRADING ENZYMES: AN INTEGRATED MODULAR DESCRIPTION
Pedro M. Coutinho, Bernard Henrissat
- 16:00 OC09 CHARACTERISATION OF THE PLANT 4-FUCOSYL-TRANSFERASE. CHANGES IN ENZYME ACTIVITY AND EXPRESSION OF THE LEWIS^a DETERMINANT DURING SOMATIC EMBRYOGENESIS
Cidália Vila Verde, Angelina Palma, Pedro Fevereiro, **Júlia Costa**
- 16:20 OC10 A PENTASACCHARIDE ENZYME – *GLYCOZYME* WITH GTPASE ACTIVITY
Timor Baasov, Dmitry Solomon, Micha Fridman, Jeanwei Zhang

Session D₁- Room 8.2.38

Chairperson: Gérard Descostes

- 14:50 IL15 SELECTIVE TRANSFORMATIONS OF UNPROTECTED SUCROSE
Yves Queneau
- 15:20 OC11 REGIOSELECTIVE ENZYMATIC FUNCTIONALISATION OF SUCROSE NEW DERIVATIVES WITH CYANO-, AMINOACID AND ACRYLIC GROUPS
V.Timme, E. Lampe, J. Anders, R. Buczys, M. Walter, **K. Buchholz**
- 15:40 OC12 REACTIVITY OF 4-DEOXY- -L-HEX-4-ENOPYRANOSYL-URONIC ACID GROUPS IN XYLAN DURING DIFFERENT BLEACHING STAGES MONITORED BY ¹H NMR, MALDI-TOF AND ESI-MS
Dmitry V. Evtuguin, R. Marques Domingues
- 16:00 OC13 CHANGES IN CELL WALL POLYSACCHARIDE COMPOSITION OF A SUN-DRIED PEAR
Dulcineia M. S. Ferreira, Ivonne Delgadillo, Manuel A. Coimbra
- 16:20 OC14 GENETIC AND BIOCHEMICAL CHARACTERISATION OF *gelC* AND *gelE* GENES POSSIBLY INVOLVED IN THE POLYMERISATION OF THE EXOPOLYSACCHARIDE GELLAN PRODUCED BY *Sphingomonas paucimobilis*
Leonilde M. Moreira, Helena Albano, Isabel Sá-Correia
- 16:40 Coffee Break

Auditorium 3.2.14

Session dedicated to the memory of Raymond U. Lemieux

Chairperson: André Pavia

- 17:15 PL02 SURFACE PLASMON RESONANCE FOR MONITORING INTERACTIONS WITH CARBOHYDRATES
Johannis P. Kamerling, Simon R. Haseley, Henricus J. Vermeer, Ricardo Gutiérrez Gallego, José L. Jiménez Blanco, Dirk J. Lefeber, Johannes F.G. Vliegthart

Tuesday, September 4, 2001

Auditorium 3.2.14

Chairperson: Grant Buchanan

- 9:00 PL03 GLYCOCONJUGATES AS COMPONENTS OF CELL ADHESION PROCESSES AND CARBOHYDRATE-BASED COMBINATORIAL SYNTHESIS
Horst Kunz, Karen Peilstöcker, Markus Rösch, Holger Herzner, Michael Wagner, Till Opatz
- 9:45 PL04 CARBOHYDRATES IN MEDICINAL CHEMISTRY PROJECTS
Hans Peter Wessel
- 10:30 Coffee Break

Session A₃ - Auditorium 3.2.14

Chairperson: Stephen Angyal

- 11:00 IL16 ANTIMETASTATIC OLIGOSACCHARIDES FROM HYALURONIC ACID: NATURALLY DERIVED OLIGOSACCHARIDES AND SYNTHETIC MIMETICS
David C. Baker
- 11:30 IL17 SYNTHESIS OF OLIGOSACCHARIDE-BASED GLYCO-CONJUGATE VACCINES
Vince Pozsgay
- 12:00 IL18 SYNTHESIS AND BIOLOGICAL PROPERTIES OF N-LINKED OLIGOSACCHARIDES FROM GLYCOPROTEINS
Carlo Unverzagt

Session A₄- Room 8.2.30

Chairperson: Robin Ferrier

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| 11:00 | IL19 | ACYCLIC STEREOSELECTION WITH CARBOHYDRATES.
LESSONS FROM THEORY AND EXPERIMENT
Martín Avalos, Reyes Babiano, Pedro Cintas , José L. Jiménez and
Juan C. Palacios |
| 11:30 | IL20 | SUGAR SYNTHONS FOR ANTHRACYCLINE ANTIBIOTICS
Grzegorz Grynkiewicz |
| 12:00 | IL21 | CARBOHYDRATE-BASED SYNTHESIS OF ANTIBIOTIC
ANALOGUES
Ferenc Sztaricskai |

Session C₃- Room 8.2.47

Chairperson: Angela Savage

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| 11:00 | IL22 | GLYCOSYLATION AND RHEUMATIC DISEASE
John S. Axford |
| 11:30 | IL23 | SPECTROSCOPIC STUDIES OF THE STRUCTURE AND
STABILITY OF GLYCOCONJUGATE VACCINES
Christopher Jones , X. Lemercinier, S. Austin, C. Gee, D.T. Crane,
C.-T. Yuen, N. Ravenscroft |
| 12:00 | IL24 | BIOSYNTHESIS OF PARASITIC PHOSPHOGLYCANS:
SYNTHETIC PHOSPHOSACCHARIDES ARE USED FOR
CHARACTERIZATION OF A DRUG TARGET ENZYME IN
THE <i>Leishmania</i>
Andrei V. Nikolaev |
| 12:30 | | Lunch |

Session A₅ - Auditorium 3.2.14

Chairperson: Ján Hirsch

- 14:00 IL25 CARBOHYDRATE-CARBOHYDRATE-RECOGNITION BETWEEN LEWIS^X BLOOD GROUP ANTIGENS
Armin Geyer, Christian Gege and Richard R. Schmidt
- 14:30 IL26 MULTIVALENT CYCLODEXTRIN CONJUGATES AS VECTORIZED DRUG CARRIERS
Juan M. Benito, Isabelle Baussanne, Jian-Xin Yu, Carmen Ortiz Mellet, Jacques Defaye, **José M. García Fernández**
- 15:00 OC15 COMPLEX FORMATION OF LARGE-RING CYCLODEXTRINS WITH SODIUM DODECYL SULFATE IN AQUEOUS SOLUTION AS REVEALED BY ISOTHERMAL TITRATION CALORIMETRY
Shinichi Kitamura, Daisuke Tanaka
- 15:20 OC16 THE AZIDO GROUP AS A FLEXIBLE SUBSTITUENT IN THE PREPARATION OF CYCLODEXTRIN DERIVATIVES
László Jicsinszky, Róbert Iványi
- 15:40 OC17 CYCLIC HOMO-OLIGOMERS FROM SUGAR AMINO ACIDS: SYNTHESIS, CONFORMATIONAL ANALYSIS AND SIGNIFICANCE
Elsa Locardi, Matthias Stöckle, Horst Kessler
- 16:00 OC18 NOVEL BOLAAMPHIPHILES WITH SACCHARIDIC POLAR HEADGROUPS. SYNTHESIS AND SUPRAMOLECULAR SELF-ASSEMBLIES
Thierry Benvegnu, Jérôme Guilbot, Myriam Roussel, Daniel Plusquellec
- 16:20 OC19 SYNTHESIS AND SPATIAL SCREENING OF MULTIVALENT WHEAT GERM AGGLUTININ LIGANDS WITH A CYCLOPEPTIDE CORE
Valentin Wittmann, Sonja Seeberger

Session B₃- Room 8.2.30

Chairperson: Haralambas Parolis

- 14:00 IL27 5,7-DIAMINO-3,5,7,9-TETRADEOXYNON-2-ULOSONIC ACIDS: IDENTIFICATION IN BACTERIAL POLYSACCHARIDE ANTIGENS, SYTHESIS AND NMR SPECTROSCOPY
Yuriy A. Knirel, Aleksander S. Shashkov, Yury E. Tsvetkov, Sofya N. Senchenkova, Ulrich Zähringer
- 14:30 OC20 STRUCTURAL STUDIES ON THE O-POLYSACCHARIDES OF *Pseudomonas Stringae* PATHOVARS FROM GENOMOSPECIES 4
Evelina L. Zdorovenko, Vladimir V. Ovod, Aleksander S. Shashkov, Lidiya M. Pasichnik, Galina M. Zdorovenko, Yuriy A. Knirel
- 14:50 OC21 NEW STRUCTURES OF THE O-SPECIFIC POLYSACCHARIDES AND CLASSIFICATION OF *Proteus* BACTERIA
Anna N. Kondakova, Yuriy A. Knirel, Aleksander S. Shashkov, Sofya N. Senchenkova, Krystina Zych, Zygmunt Sidorczyk
- 15:10 OC22 THE FREE REDUCING OLIGOSACCHARIDES OF GUM TRAGACANTH: GUIDES FOR STRUCTURES PRESENT IN ITS POLYSACCHARIDES
Cesar A. Tischer, Marcello Iacomini, **Philip A. J. Gorin**
- 15:30 OC23 CONCURRENT MALTODEXTRIN AND CELLODEXTRIN SYNTHESIS BY *Fibrobacter. Succinogenes* S85 AS IDENTIFIED BY 2D NMR
Maria Matulova, Anne-Marie Delort, Régis Nouaille, Geneviève Gaudet, Evelyne Forano
- 15:50 OC24 STRUCTURAL FEATURES OF WHITE WINE PECTIC POLYSACCHARIDES - INFLUENCE OF MACERATION AND ENZYME CLARIFICATION
Fernando Gonçalves, A. Dias Cardoso, Manuel A. Coimbra
- 16:10 OC25 STRUCTURAL DETERMINATION OF THE LIPOPOLYSACCHARIDE FROM THE EXTREMOPHYLE BACTERIUM *Halomonas Magadii*: THE OCCURRENCE OF THE RARE SUGAR 2-ACETAMIDO-2-DEOXY-TALURONIC ACID.
Cristina De Castro, Emiliano Bedini, Susan Grant, William D. Grant, Michelangelo Parrilli

Session C₄ - Room 8.2.38

Chairperson: Roy Whistler

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| 14:00 | IL28 | STUDIES ON A NEW STRATEGY TO DELIVER DOPAMINE INTO THE BRAIN BASED ON THE USE OF THE GLUCOSE CARRIER GLUT1
Alfonso Fernández-Mayoralas |
| 14:30 | IL29 | BIOSYNTHESIS OF EXOPOLYSACCHARIDES OF BIOTECHNOLOGICAL AND MEDICAL RELEVANCE IN PSEUDOMONADS
Isabel Sá-Correia |
| 15:00 | OC26 | BIOLOGICAL ACTIVITIES OF SULFATED AND/OR PHOSPHORYLATED EXOPOLYSACCHARIDE FRACTIONS PRODUCED BY <i>Vibrio Diabolicus</i>
Olivier Roger, Sylvia Collic Jouault , Philippe Zanchetta, Dominique Helley, Jacqueline Ratiskol, Andrée Bros, Corinne Siquin, Jean Guezennec, Anne Marie Fischer, Lionel Chevolot |
| 15:20 | OC27 | DEVELOPMENT OF AN HPAEC-PAD QUANTIFICATION ASSAY FOR VACCINAL POLYSACCHARIDES AND CONJUGATES
Philippe Talaga , Sandrine Vialle, Laurent Bellamy, Monique Moreau |
| 15:40 | OC28 | <i>Helicobacter Pylori</i> : A WOLF IN SHEEP'S CLOTHING
Mario A. Monteiro |
| 16:00 | OC29 | NOVEL ASPECTS OF PROTECTIVE ACTION OF CARBOXYMETHYLATED -1,3-GLUCAN AND LIPOPOLYSACCHARIDE
Alfija F. Safina , Evgenij I. Vereschagin, Michael I. Dushkin, Yakov Sh. Schwartz |
| 16:20 | OC30 | ISOLATION AND CHARACTERIZATION OF NOVEL GENES INVOLVED IN O-GLYCOSYLATION BY A DIFFERENTIAL DISPLAY METHOD
M. Yoshida , N. Sakuragi |

Session A₆- Room 8.2.47

Chairperson: Frieder Lichtenthaler

- 14:00 IL30 TOWARD THE SYNTHESIS AND EVALUATION OF NOVEL MONOVALENT AND MULTIVALENT GLYCOCONJUGATE LIBRARIES
Paul V. Murphy, Philomena M. Enright, Helena Bradley, Julie L. O' Brien, Alan O' Brien, Amanda Dunne, Kathy M. O' Boyle
- 14:30 IL31 FROM CYCLODEXTRINS TO STARCH: MOLECULAR MODELING OF STRUCTURAL AND HYDROPHOBIC CHARACTERISTICS
Stefan Immel
- 15:00 OC31 A LITERATURE DATABASE OF OLIGOSACCHARIDE SYNTHESIS
Péter Fügedi
- 15:20 OC32 CHEMICAL SYNTHESIS OF DEFINED LINEAR AND BRANCHED MALTO-OLIGOSACCHARIDES CONTAINING -1 4 AND -1 6 LINKAGES FOR USE IN STUDIES OF STARCH BIOSYNTHESIS AND DEGRADATION
Mohammed Saddik Motawia, Iben Damager, Kim Larsen, Carl Erik Olsen, Birger Lindberg Møller
- 15:40 OC33 CHEMICAL SYNTHESIS OF CHONDROITIN SULFATE TETRA- AND HEXASACCHARIDES
Nathalie Karst, Jean-Claude Jacquinet
- 16:00 OC34 SYNTHESIS OF A CARBOXYLATE MODIFIED NOD FACTOR DERIVATIVE
Boris Vauzeilles, Sara Palmier, Jean-Marie Beau
- 16:20 OC35 A SYNTHETIC HEPARAN SULFATE NEOGLYCO-CONJUGATE WHICH BINDS INTERFERON- IN THE NANOMOLAR RANGE
David Bonnaffé, Ollivier Gavard, Hugues Lortat-Jacob, André Lubineau
- 16:40 Coffee Break

Auditorium 3.2.14

Chairperson: Richard Schmidt

17:15 PL05 SYNTHESIS AND SCREENING OF CARBOHYDRATE-BASED LIBRARIES
Ole Hindsgaul

Building C8, 3rd Floor

18:00 Poster Session

Wednesday, September 5 2001

Auditorium 3.2.14

Chairperson: Johannes Vliegthart

9:00 PL06 A NEW APPROACH TO THE SYNTHESIS OF GLYCODENDRIMERS AND GLYCOPOLYMERS
J. Fraser Stoddart

9:45 PL07 ENZYMATIC ENGINEERING OF FIBRE CARBOHYDRATES FOR PULP AND PAPER INDUSTRY
Liisa Viikari

10:30 Coffe Break

Session A7- Room 8.2.30

Chairperson: Leon Backinowsky

11:00 IL32 SYNTHESIS OF NEW PYRANOSIDE MIMICS FOR GLYCOSIDASE INHIBITION FROM UNSATURATED CARBOHYDRATE DERIVATIVES
Volker Jäger, Lars Bierer, Jörg Greul, Petra Hilgers, Rolf Kugler, Andreas Palmer, Dirk U. Hahn and Julien Pothier

11:30 IL33 TOWARD NOVEL IMINO SUGAR-BASED CARBOHYDRATE MIMICS: SYNTHETIC DEVELOPMENTS
Olivier R. Martin

12:00 IL34 NOVEL, POWERFUL PROBES FOR GLYCOSIDASES
Arnold E. Stütz

Session B₄- Room 8.2.47

Chairperson: Berit Paulsen

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| 11:00 | IL35 | SOME NEW APPROACHES FOR STRUCTURAL STUDIES OF CARBOHYDRATES
Lennart Kenne |
| 11:30 | IL36 | CP/MAS ¹³ C-NMR SPECTROSCOPY APPLIED TO STRUCTURE AND INTERACTION STUDIES ON CELLULOSE
Eva-Lena Hult, Tommy Iversen , Per Tomas Larsson and Kristina Wickholm |
| 12:00 | IL37 | NMR EXPERIMENTS TO STUDY THE BINDING OF LIGANDS TO GLYCOSYLTRANSFERASES
Thomas Peters |

Session C₅ - Auditorium 3.2.14

Chairperson: Bernardo Herold

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| 11:00 | IL38 | MEDICINAL CHEMISTRY OF ANTISENSE THERAPEUTICS: ENGINEERING CARBOHYDRATE MOIETY OF OLIGONUCLEOTIDES FOR SELECTIVE TARGETING AND DESTRUCTION OF PATHOGENIC mRNA
Muthiah Manoharan |
| 11:30 | IL39 | ALTERATIONS OF MUCIN GLYCOSYLATION IN HUMAN GASTRIC CANCER AND PRECANCEROUS LESIONS
Leonor David , Celso A. Reis |
| 12:00 | IL40 | CORECEPTOR FUNCTIONS OF HEPARAN SULFATE DURING THE HIV INFECTION
Hugues Lortat-Jacob |
| 12:30 | | Lunch |

Building C8, 1st Floor

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| 13:30 | Poster Session |
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Thursday, September 6, 2001

Auditorium 3.2.14

Chairperson: Alessandro Dondoni

- 9:00 PL08 HALF OF SUGAR CHEMISTRY RESIDES AT THE ANOMERIC CARBON
Stephen Hanessian
- 9:45 PL09 STEREOSELECTIVE SYNTHESIS OF BIOACTIVE CYCLOBUTANE DERIVATIVES FROM CARBOHYDRATES
Josep Font
- 10:30 Coffee Break

Session A₈- Room 8.2.30

Chairperson: Francesco Nicotra

- 11:00 IL41 DIVERSITY-ORIENTED STRATEGIES TOWARDS CARBOHYDRATE ANALOGUES
Giovanni Casiraghi
- 11:30 IL42 NATURAL PRODUCT SYNTHESIS FROM CARBOHYDRATES BY RING-CLOSING OLEFIN METATHESIS
Robert Madsen
- 12:00 IL43 STRATEGIES AND TACTICS FOR THE SYNTHESIS OF ENANTIOMERICALLY PURE MEDIUM-SIZED RINGS
José Marco-Contelles, Elsa de Opazo

Session C/A₁- Auditorium 3.2.14

Chairperson: George Fleet

- 11:00 IL44 CHEMOENZYMATIC SYNTHESSES OF NEW OLIGOSACCHARIDES
Hugues Driguez
- 11:30 IL45 GLYCOSYNTASES: MECHANISM, SPECIFICITY AND APPLICATIONS TO OLIGOSACCHARIDE SYNTHESIS
Antoni Planas

12:00 IL46 REGIOSELECTIVE O-DEACETYLATION OF ACETYLATED MONO- AND DISACCHARIDES BY IMMOBILIZED LIPASES
Marco Terreni

Session A₉- Room 8.2.47

Chairperson: El-Sayed El-Ashry

11:00 IL47 FROM CARBOHYDRATES TO PEPTIDES AND PEPTIDOMIMETICS
Yves Chapleur

11:30 IL48 GLYCOCONJUGATED PORPHYRINS: SYNTHESIS AND POTENTIAL APPLICATIONS
José A. S. Cavaleiro, Maria G. P. M. S. Neves, Augusto C. Tomé, João P. C. Tomé, Maria L. Valdeira, Ana F. G. Mendonça

12:00 IL49 REACTIONS OF THIOSUGARS TRIGGERED BY THE SULFUR ATOM
Éva Bozó, János Kuszmann

12:30 Lunch

Session A₁₀- Room 8.2.30

Chairperson: Inge Lundt

14:00 IL50 PREPARATION AND USES OF ANOMERIC ORGANO-METALLICS: NEW INSIGHTS
Jean-Marie Beau

14:30 IL51 NOVEL SULFONE VARIATIONS ON THE CARBOHYDRATE THEME
Patrick Rollin

15:00 OC36 LANTHANIDE TRIFLATES AS NOVEL PROMOTERS OF GLYCOSYLATIONS WITH TRICHLOROACETIMIDATE DONORS
Matteo Adinolfi, Gaspare Barone, **Alfonso Iadonisi**, Lorenzo Mangoni, Marialuisa Schiattarella

15:20 OC37 A STEREOSELECTIVE APPROACH FOR THE SYNTHESIS OF -SIALOSIDES
Cristina De Meo, Alexei V. Demchenko, Geert-Jan Boons

- 15:40 OC38 EXCEPTIONALLY SIMPLE SYNTHESIS OF O-GLYCOSYLATED D-GLUCOSAMINE DERIVATIVES BY HEYNS REARRANGEMENT
Tanja M. Wrodnigg, Brigitte Eder
- 16:00 OC39 A SHORT CUT TO DIOSGENYL SAPONIN DERIVATIVES EMPLOYING THIOGLYCOSYL DONORS AND ONE-POT GLYCOSYLATION TECHNIQUES EXPLOITING SOLVENT REACTIVITY EFFECTS
Martina Lahmann, Stefan Oscarson, René Suhr, Joachim Thiem
- 16:20 OC40 GLYCOSYLATION REACTIONS WITH C-3 NITROGEN CONTAINING D-GLUCOPYRANOSYL DERIVATIVES
Lenah M. Lebelo, **Wilfred T. Mabusela**, Haralambos Parolis, Ivan R. Green

Session B₅- Room 8.2.47

Chairperson: H Maia

- 14:00 OC41 HIGH RESOLUTION NMR SPECTROSCOPY AND MOLECULAR MECHANICS CALCULATIONS PROVIDE THE 3-D STRUCTURE OF THE COMPLEX PECTIC OLIGOSACCHARIDE: RG-II
M. A. Rodríguez-Carvajal, K. Mazeau, C. Hervé du Penhoat, **Serge Pérez**
- 14:20 OC42 PROTEIN MODELING GUIDED BY LIGAND CONFORMATION
Margaret A. Johnson, Christer Höög, B. Mario Pinto
- 14:40 OC43 IN SILICO GENERATION OF N-LINKED GLYCOPROTEINS
Andreas Bohne, **Claus-W. von der Lieth**
- 15:00 OC44 EXPLORING BIOMOLECULAR CARBOHYDRATE EPITOPE RECOGNITION – A NEW APPROACH
Simon R. Haseley, Ricardo Gutiérrez Gallego, Martin B. McDonnell, Johannis P. Kamerling, Johannes F.G. Vliegthart
- 15:20 OC45 STRUCTURAL AND ENERGETIC ANALYSIS OF THE PROMISCUITY OF GALECTIN-1
Michael G. Ford, James H. Prestegard, Thomas Weimar, **Robert J. Woods**

- 15:40 OC46 STUDYING THE DYNAMICS OF OLIGOSACCHARIDES USING RESIDUAL DIPOLAR COUPLINGS AND AQUEOUS MOLECULAR SIMULATIONS.
Andrew Almond, Jens Ø. Duus
- 16:00 OC47 THE BIOLOGICAL RECOGNITION OF OLIGOSACCHARIDES STUDIED BY SPR AND NMR
Thomas Weimar, Ralph Bukowski, Thies Köhli
- 16:20 OC48 STD NMR EXPERIMENTS AND COMPUTATIONAL MODELLING OF THE SIALOADHESIN - SIALYLACTOSE COMPLEX
Anirban Bhunia, Andrew J. Benie, Oliver Schuster, Sørge Kelm,
Thomas Peters

Session A₁₁- Room 8.2.38

Chairperson: Jose Fuentes

- 14:00 IL52 A ONE-POT STEREO-, CHEMO-, AND REGIOSELECTIVE GLYCOSYLATION STRATEGY
Wieslaw Szeja
- 14:30 IL53 EXTENSION OF THE BÍLIK REACTION TO A MUTUAL INTERCONVERSION OF KETOSES AND BRANCHED-CHAIN ALDOSES
Ladislav Petruš, Zuzana Hricovíniová, Miloš Hricovíni, Mária Petrušová
- 15:00 OC49 RING CONTRACTION REACTION OF PYRANOSIDES AN USEFUL SYNTHETIC TOOL FOR THE PREPARATION OF BIOLOGICALLY ACTIVE COMPOUNDS
Eva Alcázar, M. Isabel Matheu, **Sergio Castillón**
- 15:20 OC50 DEVELOPMENT OF A STRUCTURALLY NEW NUCLEOSIDE HIGHLY ACTIVE AGAINST MULTI-DRUG-RESISTANT HIV
Hiroshi Ohrui, Hiroaki Mitsuya
- 15:40 OC51 STEREOCONTROLLED RADICAL ACCESS TO “C-GLYCOSIDES” AND NEW TIN-FREE ROUTES TO ANHYDRO-ITOLS OR 2-DEOXY-SUGARS
Isabelle Bruyère, Hamida Benyahia, Guo-Rong Chen, Zhong Bo Fei, **Jean-Pierre Praly**, Bing Bing Qin, Azin Salek Ardakani

- 16:00 OC52 FROM SUGAR ALLYLITIN DERIVATIVES TO ENANTIOMERICALLY PURE CARBOCYCLES
S³awomir Jarosz, Stanis³aw Skóra, Katarzyna Szewczyk
- 16:20 OC53 SYNTHESIS OF 3'-AMINO N-ACETYLLACTOSAMINE DERIVATIVES; DISCOVERY OF LOW-MICROMOLAR GALECTIN-3 INHIBITORS
Pernilla Sörme, Pascal Arnoux, James M. Rini, Hakon Leffler, **Ulf J. Nilsson**

Session C/A₂ - Auditorium 3.2.14

Chairperson: Helena Florêncio

- 14:00 IL54 FROM GLYCANS TO SYNTHETIC GLYCOPOLYMERS
Sergio Paoletti, Cristiana Campa, Ivan Donati, Amelia Gamini Amedeo Vetere
- 14:30 IL55 NON-CONVENTIONAL CONVERSION AND FUNCTIONALISATION OF SUGARS AND CYCLITOLS
Ralf Mietchen
- 15:00 OC54 LESSONS FROM NATURE: PEPTIDE AND CARBOHYDRATE MIMICS
B.M. Pinto
- 15:20 OC55 CHEMOENZYMATIC SYNTHESIS OF GLYCOSAMINOGLYCAN OLIGOSACCHARIDES: USE OF MOLECULARLY DISSECTED SYNTHASES
Paul L. DeAngelis
- 15:40 OC56 SUGARS AND ENZYMES: PROTEIN GLYCOSYLATION & GLYCOSIDE SYNTHESIS
Benjamin G. Davis
- 16:00 OC57 ARTIFICIAL GOLGI APPARATUS: AUTOMATED-GLYCOSYLTRANSFERASES IMMOBILISED ON SOLID SUPPORTS
Shin-Ichiro Nishimura, Susumu Nishiguchi, Kuriko Yamada Yoshitoshi Fuji, Shigeo Shibatani, Atushi Toda, Hiroaki Nakagawa Kazuhito Fujiyama, Tatsuji Seki
- 16:20 OC58 CHARACTERIZATION OF RECOMBINANT SUCROSE SYNTHASE 1 FOR THE SYNTHESIS OF SUCROSE ANALOGUES
U. Roemer, N. Nettelstroth, L. Elling

16:40 Coffee Break

Auditorium 3.2.14

Chairperson: András Lipták

17:15 PL10 STRATEGIES FOR THE SYNTHESIS OF CLAVAMS AND 5-DETHIA-5-OXACEPHAMS FROM CARBOHYDRATES
Marek Chmielewski

Friday, September 7, 2001

Auditorium 3.2.14

Chairperson: Hans Paulsen

9:00 PL11 SYNERGISTIC CHEMICAL AND ENZYMATIC APPROACHES FOR BIOACTIVE GLYCOSTRUCTURES
Joachim Thiem

9:45 PL12 SYNTHESIS AND PROPERTIES OF MONOSACCHARIDE AND DISACCHARIDE MIMICS
Pierre Vogel, A. Bataner-Dubois, F. Cardona, F. Carrel, R. Demange, S. Gerber-Lemaire, I. Navarro, C. Pasquarello, F. Popowycz, E. Rodriguez-Garcia, Y.-H. Zhu, A. T. Carmona Asenjo, A. Moreno Vargas, I. Robina

10:30 Coffee Break

Auditorium 3.2.14

Chairperson: Jacques Defaye

11:00 PL13 SIALYLATED EXTENDED HELICAL EPITOPES AND THEIR ROLE IN GLYCOCONJUGATE VACCINES AGAINST MENINGITIS AND CANCER
Harold J. Jennings

11:45 Announcement of future Meetings

12:15 Closing Ceremony

POST SYMPOSIUM

GLUPOR IV – dedicated to the memory of Ana Freitas

Saturday, September 8, 2001

Room 8.2.30

10:00 THE LIFE OF ANA FREITAS. A RETROSPECTIVE
Ana P. Esteves

11:00 Meeting of the Portuguese Carbohydrate Chemistry Group

Publication

An issue of the *Boletim da Sociedade Portuguesa de Química* will be published and will include articles dedicated to the memory of Ana Freitas. The deadline for the submission of abstracts is January 15, 2002.

PLENARY LECTURES

- CRAL** SYNTHETIC MULTIVALENT CARBOHYDRATE LIGANDS AS EFFECTORS
Jason E. Gestwicki, Laura E. Strong, Jinwang Xu, Laura L. Kiessling*
- PL01** THE GLYCOCONJUGATES OF PROTOZOAN PARASITES: TOWARDS THE EXPLOITATION OF THEIR STRUCTURE AND BIOSYNTHESIS
Terry K. Smith, Arthur Crossman, Charles N. Borissow, Michael J. Paterson, Alex Dix, John S. Brimacombe, Michael A. J. Ferguson*
- PL02** SURFACE PLASMON RESONANCE FOR MONITORING INTERACTIONS WITH CARBOHYDRATES
Johannis P. Kamerling,* Simon R. Haseley, Henricus J. Vermeer, Ricardo Gutiérrez Gallego, José L. Jiménez Blanco, Dirk J. Lefeber, Johannes F.G. Vliegthart
- PL03** GLYCOCONJUGATES AS COMPONENTS OF CELL ADHESION PROCESSES AND CARBOHYDRATE-BASED COMBINATORIAL SYNTHESIS
Horst Kunz,* Karen Peilstöcker, Markus Rösch, Holger Herzner, Michael Wagner, Till Opatz
- PL04** CARBOHYDRATES IN MEDICINAL CHEMISTRY PROJECTS
Hans Peter Wessel
- PL05** SYNTHESIS AND SCREENING OF CARBOHYDRATE-BASED LIBRARIES
Ole Hindsgaul
- PL06** A NEW APPROACH TO THE SYNTHESIS OF GLYCODENDRIMERS AND GLYCOPOLYMERS
J. Fraser Stoddart
- PL07** ENZYMATIC ENGINEERING OF FIBRE CARBOHYDRATES FOR PULP AND PAPER INDUSTRY
Liisa Viikari
- PL08** HALF OF SUGAR CHEMISTRY RESIDES AT THE ANOMERIC CARBON
Stephen Hanessian
- PL09** STEREOSELECTIVE SYNTHESIS OF BIOACTIVE CYCLOBUTANE DERIVATIVES FROM CARBOHYDRATES
Josep Font

- PL10** STRATEGIES FOR THE SYNTHESIS OF CLAVAMS AND 5-DETHIA-5-OXACEPHAMS FROM CARBOHYDRATES
Marek Chmielewski
- PL11** SYNERGISTIC CHEMICAL AND ENZYMATIC APPROACHES FOR BIOACTIVE GLYCOSTRUCTURES
Joachim Thiem
- PL12** SYNTHESIS AND PROPERTIES OF MONOSACCHARIDE AND DISACCHARIDE MIMICS
Pierre Vogel,* A. Bataner-Dubois, F. Cardona, F. Carrel, R. Demange, S. Gerber-Lemaire, I. Navarro, C. Pasquarello, F. Popowycz, E. Rodriguez-Garcia, Y.-H. Zhu, A. T. Carmona Asenjo, A. Moreno Vargas, I. Robina
- PL13** SIALYLATED EXTENDED HELICAL EPITOPES AND THEIR ROLE IN GLYCOCONJUGATE VACCINES AGAINST MENINGITIS AND CANCER
Harold J. Jennings

INVITED LECTURES

- IL01** INTRAMOLECULAR GLYCOSYLATION AS A TOOL FOR SACCHARIDE SYNTHESIS
Thomas Ziegler
- IL02** VARIOUS ASPECTS ON THE USE OF THIOGLYCOSIDES IN OLIGOSACCHARIDE SYNTHESIS
Stefan Oscarson
- IL03** ALLYL PROTECTING GROUP MEDIATED STEREOSPECIFIC 1,2-CIS GLYCOSYLATION
Antony J. Fairbanks,* Christopher M. P. Seward, Mahmoud Aloui, Ian Cumpste
- IL04** NMR SPECTROSCOPY IN THE STRUCTURAL INVESTIGATIONS OF BACTERIAL AND PLANT POLYSACCHARIDES
Angela Savage,* Jimmy Muldoon, Michelle Cuffe, Alexander Shashkov, Anthony P. Moran, Maria G. Tuohy
- IL05** LIPOPOLYSACCHARIDES FROM VIRULENT AND LOW-VIRULENT PHASES OF *Coxiella burnetii*, THE ETIOLOGICAL AGENT OF Q FEVER AND Q FEVER ENDOCARDITIS
Rudolf Toman,* Ahmed Hussein, Peter Ftáček, Peter Palkovič

- IL06** GLYCOLIPID MEDIATORS OF PLANT-MICROBE INTERACTIONS: MASS SPECTROMETRIC STUDIES OF THEIR STRUCTURE AND BIOSYNTHESIS
Jane Thomas-Oates
- IL07** CONGENITAL DISORDERS OF GLYCOSYLATION: MODELS TO IDENTIFY ESSENTIAL STEPS IN GLYCOSYLATION PATHWAYS
Timo Imbach, Barbara Schenk, Stephanie Grünewald, Gert Matthijs, Jaak Jaeken, Eric G. Berger, Markus Aeby, Thierry Hennot*
- IL08** GENETIC ANALYSIS OF THE MECHANISM OF GLYCOSYLATION OF THE EXTRACELLULAR PROTEASES OF *Porphyromonas Gingivalis*
Mike Curtis,* Joe Aduse-Opoku, Nik Paramonov, Minnie Rangarajan, Alexandra Gallagher, Elizabeth Hounsell
- IL09** EVOLUTION OF ENZYMES INVOLVED IN SOME CONGENITAL DISORDERS OF GLYCOSYLATION (CDG)
Rafael Oriol,* Stuart Moore, Isabelle Chantret, Rosella Mollicone, Patrice Codogno
- IL10** DEOXY SUGARS: ENZYMATIC APPROACHES AND SYNTHETIC SOLUTIONS
Werner Klaffke
- IL11** SYNTHETIC EXPLORATIONS TOWARDS 3-DEOXY-3-FLUORO DERIVATIVES OF D-PEROSAMINE
Pavol Kováč
- IL12** STRATEGIES TOWARDS A VACCINE AGAINST *Shigella Flexneri*: COMBINATION OF SYNTHESIS AND STRUCTURAL STUDIES
Laurence A. Mulard,* Véronique Marcel-Peyre, Marie-Jeanne Clément, Karen Wright, Françoise Baleux, Anne Imberty, Muriel Delepierre, Armelle Phalipon
- IL13** THE INTRINSIC CONFORMATION OF TREHALOSE
Alfred D. French,* Glenn P. Johnson, Anne-Marie Kelterer, Michael K. Dowd, Christopher J. Cramer
- IL14** COMMON STRUCTURAL FEATURES OF NON-MAMMALIAN PROTEIN-N-GLYCANS AND THEIR ROLE IN ALLERGY
Friedrich Altmann,* Daniel Kolarich, Iain B.H. Wilson
- IL15** SELECTIVE TRANSFORMATIONS OF UNPROTECTED SUCROSE
Yves Queneau

- IL16** ANTIMETASTATIC OLIGOSACCHARIDES FROM HYALURONIC ACID: NATURALLY DERIVED OLIGOSACCHARIDES AND SYNTHETIC MIMETICS
David C. Baker
- IL17** SYNTHESIS OF OLIGOSACCHARIDE-BASED GLYCOCONJUGATE VACCINES
Vince Pozsgay
- IL18** SYNTHESIS AND BIOLOGICAL PROPERTIES OF N-LINKED OLIGOSACCHARIDES FROM GLYCOPROTEINS
Carlo Unverzagt
- IL19** ACYCLIC STEREOSELECTION WITH CARBOHYDRATES. LESSONS FROM THEORY AND EXPERIMENT
Martín Avalos, Reyes Babiano, Pedro Cintas,* José L. Jiménez, Juan C. Palacios
- IL20** SUGAR SYNTHONS FOR ANTHRACYCLINE ANTIBIOTICS
Grzegorz Grynkiewicz
- IL21** CARBOHYDRATE-BASED SYNTHESIS OF ANTIBIOTIC ANALOGUES
Ferenc Sztaricskai
- IL22** GLYCOSYLATION AND RHEUMATIC DISEASE
John S. Axford
- IL23** SPECTROSCOPIC STUDIES OF THE STRUCTURE AND STABILITY OF GLYCOCONJUGATE VACCINES
Christopher Jones,* X. Lemercinier, S. Austin, C. Gee, D.T. Crane, C.-T. Yuen, N. Ravenscroft
- IL24** BIOSYNTHESIS OF PARASITIC PHOSPHOGLYCANS: SYNTHETIC PHOSPHOSACCHARIDES ARE USED FOR CHARACTERIZATION OF A DRUG TARGET ENZYME IN THE *Leishmania*
Andrei V. Nikolaev
- IL25** CARBOHYDRATE-CARBOHYDRATE-RECOGNITION BETWEEN LEWIS^X BLOOD GROUP ANTIGENS
Armin Geyer,* Christian Gege, Richard R. Schmidt
- IL26** MULTIVALENT CYCLODEXTRIN CONJUGATES AS VECTORIZED DRUG CARRIERS
Juan M. Benito, Isabelle Baussanne, Jian-Xin Yu, Carmen Ortiz Mellet, Jacques Defaye, José M. García Fernández*

- IL27** 5,7-DIAMINO-3,5,7,9-TETRADEOXYNON-2-ULOSONIC ACIDS: IDENTIFICATION IN BACTERIAL POLYSACCHARIDE ANTIGENS, SYNTHESIS AND NMR SPECTROSCOPY
Yuriy A. Knirel,* Aleksander S. Shashkov, Yury E. Tsvetkov, Sofya N. Senchenkova, Ulrich Zähringer
- IL28** STUDIES ON A NEW STRATEGY TO DELIVER DOPAMINE INTO THE BRAIN BASED ON THE USE OF THE GLUCOSE CARRIER GLUT1
Alfonso Fernández-Mayoralas
- IL29** BIOSYNTHESIS OF EXOPOLYSACCHARIDES OF BIOTECHNOLOGICAL AND MEDICAL RELEVANCE IN PSEUDOMONADS
Isabel Sá-Correia
- IL30** TOWARD THE SYNTHESIS AND EVALUATION OF NOVEL MONOVALENT AND MULTIVALENT GLYCOCONJUGATE LIBRARIES
Paul V. Murphy,* Philomena M. Enright, Helena Bradley, Julie L. O' Brien, Alan O' Brien, Amanda Dunne, Kathy M. O' Boyle
- IL31** FROM CYCLODEXTRINS TO STARCH: MOLECULAR MODELING OF STRUCTURAL AND HYDROPHOBIC CHARACTERISTICS
Stefan Immel
- IL32** SYNTHESIS OF NEW PYRANOSIDE MIMICS FOR GLYCOSIDASE INHIBITION FROM UNSATURATED CARBOHYDRATE DERIVATIVES
Volker Jäger,* Lars Bierer, Jörg Greul, Petra Hilgers, Rolf Kugler, Andreas Palmer, Dirk U. Hahn, Julien Pothier
- IL33** TOWARD NOVEL IMINO SUGAR-BASED CARBOHYDRATE MIMICS: SYNTHETIC DEVELOPMENTS
Olivier R. Martin
- IL34** NOVEL, POWERFUL PROBES FOR GLYCOSIDASES
Arnold E. Stütz
- IL35** SOME NEW APPROACHES FOR STRUCTURAL STUDIES OF CARBOHYDRATES
Lennart Kenne
- IL36** CP/MAS ^{13}C -NMR SPECTROSCOPY APPLIED TO STRUCTURE AND INTERACTION STUDIES ON CELLULOSE
Eva-Lena Hult, Tommy Iversen,* Per Tomas Larsson, Kristina Wickholm

- IL37** NMR EXPERIMENTS TO STUDY THE BINDING OF LIGANDS TO GLYCOSYLTRANSFERASES
Thomas Peters
- IL38** MEDICINAL CHEMISTRY OF ANTISENSE THERAPEUTICS: ENGINEERING CARBOHYDRATE MOIETY OF OLIGONUCLEOTIDES FOR SELECTIVE TARGETING AND DESTRUCTION OF PATHOGENIC mRNA
Muthiah Manoharan
- IL39** ALTERATIONS OF MUCIN GLYCOSYLATION IN HUMAN GASTRIC CANCER AND PRECANCEROUS LESIONS
Leonor David, Celso A. Reis
- IL40** CORECEPTOR FUNCTIONS OF HEPARAN SULFATE DURING THE HIV INFECTION
Hugues Lortat-Jacob
- IL41** DIVERSITY-ORIENTED STRATEGIES TOWARDS CARBOHYDRATE ANALOGUES
Giovanni Casiraghi
- IL42** NATURAL PRODUCT SYNTHESIS FROM CARBOHYDRATES BY RING-CLOSING OLEFIN METATHESIS
Robert Madsen
- IL43** STRATEGIES AND TACTICS FOR THE SYNTHESIS OF ENANTIOMERICALLY PURE MEDIUM-SIZED RINGS
José Marco-Contelles,* Elsa de Opazo
- IL44** CHEMOENZYMATIC SYNTHESSES OF NEW OLIGOSACCHARIDES
Hugues Driguez
- IL45** GLYCOSYNTHASES: MECHANISM, SPECIFICITY AND APPLICATIONS TO OLIGOSACCHARIDE SYNTHESIS
Antoni Planas
- IL46** REGIOSELECTIVE O-DEACETYLATION OF ACETYLATED MONO- AND DISACCHARIDES BY IMMOBILIZED LIPASES
Marco Terreni
- IL47** FROM CARBOHYDRATES TO PEPTIDES AND PEPTIDOMIMETICS
Yves Chapleur

- IL48** GLYCOCONJUGATED PORPHYRINS: SYNTHESIS AND POTENTIAL APPLICATIONS
José A. S. Cavaleiro,* Maria G. P. M. S. Neves, Augusto C. Tomé, João P. C. Tomé, Ana M. G. Silva, Artur M. S. Silva, Maria L. Valdeira, Ana F. G. Mendonça, Alessandro Dondoni, Daniela Perroni
- IL49** REACTIONS OF THIOSUGARS TRIGGERED BY THE SULFUR ATOM
Éva Bozó,* János Kuszmann^b
- IL50** PREPARATION AND USES OF ANOMERIC ORGANOMETALLICS: NEW INSIGHTS
Jean-Marie Beau
- IL51** NOVEL SULFONE VARIATIONS ON THE CARBOHYDRATE THEME
Patrick Rollin
- IL52** A ONE-POT STEREO-, CHEMO-, AND REGIOSELECTIVE GLYCOSYLATION STRATEGY
Wiesław Szeja
- IL53** EXTENSION OF THE BÍLIK REACTION TO A MUTUAL INTERCONVERSION OF KETOSES AND BRANCHED-CHAIN ALDOSES
Ladislav Petruš,* Zuzana Hricovíniová, Miloš Hricovíni, Mária Petrušová
- IL54** FROM GLYCANS TO SYNTHETIC GLYCOPOLYMERS
Sergio Paoletti, Cristiana Campa, Ivan Donati, Amelia Gamini, Amedeo Vetere
- IL55** NON-CONVENTIONAL CONVERSION AND FUNCTIONALISATION OF SUGARS AND CYCLITOLS
Ralf Mietchen

ORAL COMMUNICATIONS

- OC01** RAPID CARBOHYDRATE PROTECTING GROUP MANIPULATIONS ASSISTED BY MICROWAVE DIELECTRIC HEATING
Eva Söderberg, Jacob Westman,* Stefan Oscarson
- OC02** CONVERSION OF MONOSACCHARIDES INTO POLY-HYDROXYCYCLOPENTENES *VIA* RING CLOSING METATHESIS, AN EXPEDITIOUS ROUTES TO PENTENOMYCIN, TREHAZOLIN, AND CARBA-D-FRUCTOFURANOSE
Yousef Al-Abed,* Mohindra Seepersaud

- OC03** EXTENDED VERSUS SICKLE CONFORMATIONS OF ALDOHEXOSE DITHIOACETALS IN SOLUTION AND IN THE SOLID STATE
Derek Horton,* Olivier Marcq, Rudy L. Luck, Tongbu Lu
- OC04** HOW DO DIFFERENT SOLVENTS INFLUENCE THE CONFORMATIONAL BEHAVIOR OF CARBOHYDRATES? CONFORMATIONAL ANALYSIS STRATEGIES TO DETECT SOLVENT EFFECTS BASED ON MOLECULAR DYNAMICS SIMULATIONS
Martin Frank,* Claus-Wilhelm von der Lieth
- OC05** SOLVENT INTERACTIONS DETERMINE CARBOHYDRATE CONFORMATION
Karl N. Kirschner,* Robert J. Woods
- OC06** LOW TEMPERATURE INFRARED SPECTROSCOPY OF HYDROGEN BONDING IN CARBOHYDRATES - TETRITOLS, PENTITOLS AND PYRANOSIDES.
Mark Rozenberg
- OC07** THE ACCUMULATION OF PHENOLIC GLUCOSIDES IN POPLAR XYLEM
A. De Bruyn,* R. Busson, K. Morreel, G. Goeminne, W. Boerjan, E. Messens
- OC08** STARCH DEGRADING ENZYMES: AN INTEGRATED MODULAR DESCRIPTION
Pedro M. Coutinho,* Bernard Henrissat
- OC09** CHARACTERISATION OF THE PLANT 4-FUCOSYLTRANSFERASE. CHANGES IN ENZYME ACTIVITY AND EXPRESSION OF THE LEWIS^a DETERMINANT DURING SOMATIC EMBRYOGENESIS
Cidália Vila Verde, Angelina Palma, Pedro Fevereiro, Júlia Costa*
- OC10** A PENTASACCHARIDE ENZYME – *GLYCOZYME* WITH GTPASE ACTIVITY
Timor Baasov,* Dmitry Solomon, Micha Fridman, Jeanwei Zhang
- OC11** REGIOSELECTIVE ENZYMATIC FUNCTIONALISATION OF SUCROSE NEW DERIVATIVES WITH CYANO-, AMINOACID AND ACRYLIC GROUPS
V.Timme, E. Lampe, J. Anders, R. Buczys, M. Walter, K. Buchholz*

- OC12** REACTIVITY OF 4-DEOXY- -L-HEX-4-ENOPYRANOSYLURONIC ACID GROUPS IN XYLAN DURING DIFFERENT BLEACHING STAGES MONITORED BY ^1H NMR, MALDI-TOF AND ESI-MS
Dmitry V. Evtuguin,* R. Marques Domingues
- OC13** CHANGES IN CELL WALL POLYSACCHARIDE COMPOSITION OF A SUN-DRIED PEAR
Dulcinea M. S. Ferreira,* Ivonne Delgadillo, Manuel A. Coimbra
- OC14** GENETIC AND BIOCHEMICAL CHARACTERISATION OF *gelC* AND *gelE* GENES POSSIBLY INVOLVED IN THE POLYMERISATION OF THE EXOPOLYSACCHARIDE GELLAN PRODUCED BY *Sphingomonas paucimobilis*
Leonilde M. Moreira,* Helena Albano, Isabel Sá-Correia
- OC15** COMPLEX FORMATION OF LARGE-RING CYCLODEXTRINS WITH SODIUM DODECYL SULFATE IN AQUEOUS SOLUTION AS REVEALED BY ISOTHERMAL TITRATION CALORIMETRY
Shinichi Kitamura,* Daisuke Tanaka
- OC16** THE AZIDO GROUP AS A FLEXIBLE SUBSTITUENT IN THE PREPARATION OF CYCLODEXTRIN DERIVATIVES
László Jicsinszky,* Róbert Iványi
- OC17** CYCLIC HOMO-OLIGOMERS FROM SUGAR AMINO ACIDS: SYNTHESIS, CONFORMATIONAL ANALYSIS AND SIGNIFICANCE
Elsa Locardi,* Matthias Stöckle, Horst Kessler
- OC18** NOVEL BOLAAMPHIPHILES WITH SACCHARIDIC POLAR HEADGROUPS. SYNTHESIS AND SUPRAMOLECULAR SELF-ASSEMBLIES
Thierry Benvenne,* Jérôme Guilbot, Myriam Roussel, Daniel Plusquellec
- OC19** SYNTHESIS AND SPATIAL SCREENING OF MULTIVALENT WHEAT GERM AGGLUTININ LIGANDS WITH A CYCLOPEPTIDE CORE
Valentin Wittmann,* Sonja Seeberger
- OC20** STRUCTURAL STUDIES ON THE O-POLYSACCHARIDES OF *Pseudomonas Stringae* PATHOVARS FROM GENOMOSPECIES 4
Evelina L. Zdorovenko,* Vladimir V. Ovod, Aleksander S. Shashkov, Lidiya M. Pasichnik, Galina M. Zdorovenko, Yuriy A. Knirel
- OC21** NEW STRUCTURES OF THE O-SPECIFIC POLYSACCHARIDES AND CLASSIFICATION OF *Proteus* BACTERIA
Anna N. Kondakova,* Yuriy A. Knirel, Aleksander S. Shashkov, Sof'ya N. Senchenkova, Krystina Zych, Zygmunt Sidorchuk

- OC22** THE FREE REDUCING OLIGOSACCHARIDES OF GUM TRAGACANTH: GUIDES FOR STRUCTURES PRESENT IN ITS POLYSACCHARIDES
Cesar A. Tischer, Marcello Iacomini, Philip A. J. Gorin*
- OC23** CONCURRENT MALTODEXTRIN AND CELLODEXTRIN SYNTHESIS BY *Fibrobacter. Succinogenes* S85 AS IDENTIFIED BY 2D NMR
Maria Matulova,* Anne-Marie Delort, Régis Nouaille, Geneviève Gaudet, Evelyne Forano
- OC24** STRUCTURAL FEATURES OF WHITE WINE PECTIC POLYSACCHARIDES - INFLUENCE OF MACERATION AND ENZYME CLARIFICATION
Fernando Gonçalves,* A. Dias Cardoso, Manuel A. Coimbra
- OC25** STRUCTURAL DETERMINATION OF THE LIPOPOLYSACCHARIDE FROM THE EXTREMOPHYLE BACTERIUM *Halomonas Magadii*: THE OCCURRENCE OF THE RARE SUGAR 2-ACETAMIDO-2-DEOXY-TALURONIC ACID.
Cristina De Castro,* Emiliano Bedini, Susan Grant, William D. Grant, Michelangelo Parrilli
- OC26** BIOLOGICAL ACTIVITIES OF SULFATED AND/OR PHOSPHORYLATED EXOPOLYSACCHARIDE FRACTIONS PRODUCED BY *Vibrio Diabolicus*
Olivier Roger, Sylvia Collic Jouault,* Philippe Zanchetta, Dominique Helley, Jacqueline Ratiskol, Andrée Bros, Corinne Sinquin, Jean Guezennec, Anne Marie Fischer, Lionel Chevolot
- OC27** DEVELOPMENT OF AN HPAEC-PAD QUANTIFICATION ASSAY FOR VACCINAL POLYSACCHARIDES AND CONJUGATES
Philippe Talaga,* Sandrine Vialle, Laurent Bellamy, Monique Moreau
- OC28** *Helicobacter Pylori*: A WOLF IN SHEEP'S CLOTHING
Mario A. Monteiro
- OC29** NOVEL ASPECTS OF PROTECTIVE ACTION OF CARBOXYMETHYLATED -1,3-GLUCAN AND LIPO-POLYSACCHARIDE
Alfija F. Safina,* Evgenij I. Vereschagin, Michael I. Dushkin, Yakov Sh. Schwartz
- OC30** ISOLATION AND CHARACTERIZATION OF NOVEL GENES INVOLVED IN O-GLYCOSYLATION BY A DIFFERENTIAL DISPLAY METHOD
M. Yoshida,* N. Sakuragi

- OC31** A LITERATURE DATABASE OF OLIGOSACCHARIDE SYNTHESIS
Péter Fügedi
- OC32** CHEMICAL SYNTHESIS OF DEFINED LINEAR AND BRANCHED MALTO-OLIGOSACCHARIDES CONTAINING -1 4 AND -1 6 LINKAGES FOR USE IN STUDIES OF STARCH BIOSYNTHESIS AND DEGRADATION
Mohammed Saddik Motawia,* Iben Damager, Kim Larsen, Carl Erik Olsen, Birger Lindberg Møller
- OC33** CHEMICAL SYNTHESIS OF CHONDROITIN SULFATE TETRA- AND HEXASACCHARIDES
Nathalie Karst,* Jean-Claude Jacquinet
- OC34** SYNTHESIS OF A CARBOXYLATE MODIFIED NOD FACTOR DERIVATIVE
Boris Vauzeilles,* Sara Palmier, Jean-Marie Beau
- OC35** A SYNTHETIC HEPARAN SULFATE NEOGLYCOCONJUGATE WHICH BINDS INTERFERON- IN THE NANOMOLAR RANGE
David Bonnaffé,* Ollivier Gavard, Hugues Lortat-Jacob, André Lubineau
- OC36** LANTHANIDE TRIFLATES AS NOVEL PROMOTERS OF GLYCOSYLATIONS WITH TRICHLOROACETIMIDATE DONORS
Matteo Adinolfi, Gaspare Barone, Alfonso Iadonisi,* Lorenzo Mangoni, Marialuisa Schiattarella
- OC37** A STEREOSELECTIVE APPROACH FOR THE SYNTHESIS OF -SIALOSIDES
Cristina De Meo,* Alexei V. Demchenko, Geert-Jan Boons
- OC38** EXCEPTIONALLY SIMPLE SYNTHESIS OF *O*-GLYCOSYLATED D-GLUCOSAMINE DERIVATIVES BY HEYNS REARRANGEMENT
Tanja M. Wrodnigg,* Brigitte Eder
- OC39** A SHORT CUT TO DIOSGENYL SAPONIN DERIVATIVES EMPLOYING THIOGLYCOSYL DONORS AND ONE-POT GLYCOSYLATION TECHNIQUES EXPLOITING SOLVENT REACTIVITY EFFECTS
Martina Lahmann,* Stefan Oscarson, René Suhr, Joachim Thiem
- OC40** GLYCOSYLATION REACTIONS WITH C-3 NITROGEN CONTAINING D-GLUCOPYRANOSYL DERIVATIVES
Lenah M. Lebelo, Wilfred T. Mabusele,* Haralambos Parolis, Ivan R. Green

- OC41** HIGH RESOLUTION NMR SPECTROSCOPY AND MOLECULAR MECHANICS CALCULATIONS PROVIDE THE 3-D STRUCTURE OF THE COMPLEX PECTIC OLIGOSACCHARIDE: RG-II
M. A. Rodríguez-Carvajal, K. Mazeau, C. Hervé du Penhoat, S. Pérez*
- OC42** PROTEIN MODELING GUIDED BY LIGAND CONFORMATION
Margaret A. Johnson,* Christer Höög, B. Mario Pinto
- OC43** IN SILICO GENERATION OF N-LINKED GLYCOPROTEINS
Andreas Böhne, Claus-W. von der Lieth*
- OC44** EXPLORING BIOMOLECULAR CARBOHYDRATE EPITOPE RECOGNITION – A NEW APPROACH
Simon R. Haseley,* Ricardo Gutiérrez Gallego, Martin B. McDonnell, Johannes P. Kamerling, Johannes F.G. Vliegthart
- OC45** STRUCTURAL AND ENERGETIC ANALYSIS OF THE PROMISCUITY OF GALECTIN-1
Michael G. Ford, James H. Prestegard, Thomas Weimar, Robert J. Woods*
- OC46** STUDYING THE DYNAMICS OF OLIGOSACCHARIDES USING RESIDUAL DIPOLAR COUPLINGS AND AQUEOUS MOLECULAR SIMULATIONS.
Andrew Almond,* Jens Ø. Duus
- OC47** THE BIOLOGICAL RECOGNITION OF OLIGOSACCHARIDES STUDIED BY SPR AND NMR
Thomas Weimar,* Ralph Bukowski, Thies Köhli
- OC48** STD NMR EXPERIMENTS AND COMPUTATIONAL MODELLING OF THE SIALOADHESIN - SIALYLLACTOSE COMPLEX
Anirban Bhunia,* Andrew J. Benie, Oliver Schuster, Sørge Kelm, Thomas Peters
- OC49** RING CONTRACTION REACTION OF PYRANOSIDES AN USEFUL SYNTHETIC TOOL FOR THE PREPARATION OF BIOLOGICALLY ACTIVE COMPOUNDS
Eva Alcázar, M. Isabel Matheu, Sergio Castellón*
- OC50** DEVELOPMENT OF A STRUCTURALLY NEW NUCLEOSIDE HIGHLY ACTIVE AGAINST MULTI-DRUG-RESISTANT HIV
Hiroshi Ohrai,* Hiroaki Mitsuya

- OC51** STEREOCONTROLLED RADICAL ACCESS TO “C-GLYCOSIDES” AND NEW TIN-FREE ROUTES TO ANHYDRO-ITOLS OR 2-DEOXY-SUGARS
Isabelle Bruyère, Hamida Benyahia, Guo-Rong Chen, Zhong Bo Fei, Jean-Pierre Praly,* Bing Bing Qin, Azin Salek Ardakani
- OC52** FROM SUGAR ALLYL TIN DERIVATIVES TO ENANTIOMERICALLY PURE CARBOCYCLES
Sławomir Jarosz,* Stanisław Skóra, Katarzyna Szewczyk
- OC53** SYNTHESIS OF 3'-AMINO N-ACETYLLACTOSAMINE DERIVATIVES; DISCOVERY OF LOW-MICROMOLAR GALECTIN-3 INHIBITORS
Pernilla Sörme, Pascal Arnoux, James M. Rini, Hakon Leffler, Ulf J. Nilsson*
- OC54** LESSONS FROM NATURE: PEPTIDE AND CARBOHYDRATE MIMICS
B.M. Pinto
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