

Bibliography of carbohydrate polymers

(10 weeks journals. Search completed at 31st. Oct. 2001)

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As a service to subscribers of the journal, this bibliography contains newly published material in the field of carbohydrate polymers. The bibliography is divided into thirteen sections: 1 Books, reviews & symposia; 2 Cellulose; 3 Cellulose-degrading enzymes; 4 Chitin/Chitosan; 5 Cyclodextrins; 6 Lignin; 7 Lipopolysaccharides; 8 Pectin; 9 Starch; 10 Starch-degrading enzymes; 11 Polysaccharides - Microbial; 12 Polysaccharides - Plant; 13 Polysaccharides - Other. Within each section, articles are listed in alphabetical order with respect to author. When there are no publications to appear under one of these headings, that section will be omitted.

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Pascual E, Julia MR// CSIC IIQAB, Surfactant Technol Dept, Jordi Girona 18, ES-08034 Barcelona, Spain
J Biotechnol 2001 **89** (2-3) 289

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Puttipatkhachorn S, Nunthanid J, Yamamoto K, Peck GE// Mahidol Univ, Fac Pharm, TH-10400 Bangkok, Thailand
J Controlled Release 2001 **75** (1-2) 143

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Richmond SA, Lindstrom JE, Braddock JF// Univ Alaska Fairbanks, Inst Arctic Biol, Fairbanks, AK 99775, USA

Mar Pollut Bull 2001 **42** (9) 773

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Risbud MV, Bhonde MR, Bhonde RR**// *Nat'l Ctr Cell Sci, Tissue Engr & Banking Lab, IN-411007 Pune, India
J Biomed Mater Res 2001 **57** (2) 300

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Roberts GAF, Wood FA// Nottingham Trent Univ, Dept Fash & Text, Design Mat Grp, Burton St, Nottingham NG1 4BU, England
J Biotechnol 2001 **89** (2-3) 297

A study of the influence of structure on the effectiveness of chitosan as an anti-felting treatment for wool

Sag Y, Aktay Y// Hacettepe Univ, Fac Engr, Dept Chem Engr, TR-06532 Beytepe, Ankara, Turkey
Process Biochem 2001 **36** (12) 1187

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Sashiwa H, Shigemasa Y, Roy R// Osaka National Research Inst, Dept Organ Mat, Funct Polymer Sect, 1-8-31 Midorigaoka, Ikeda City, Osaka 563 8577, Japan
Carbohydr Polym 2002 **47** (2) 191

Chemical modification of chitosan 8: Preparation of chitosan-dendrimer hybrids via short spacer

Sashiwa H, Shigemasa Y, Roy R// Address as above.

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Shimoda J, Onishi H*, Machida Y// *Hoshi Univ, Dept Clin Pharm, Shinagawa ku, 2-4-41 Ebara, Tokyo 142 8501, Japan
Drug Dev Ind Pharm 2001 **27** (6) 567

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Shin BC, Park KB, Jang BS, Lim SM, Shim CK**// *Seoul Natl Univ, Coll Pharm, Seoul, South Korea
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Preparation of ¹⁵³Sm-chitosan complex for radiation synovectomy

Singla AK, Sharma ML, Dhawan S// Panjab Univ, Inst Pharmaceut Sci, Dept Pharmaceut, IN-1160014 Chandigarh, India
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Thanou M, Verhoef JC, Verheijden JHM, Junginger HE**// *Leiden Univ, Amsterdam Ctr Drug Res, Div Pharmaceut Technol, POB 9502, NL-2300 RA Leiden, The Netherlands
Pharmaceut Res 2001 **18** (6) 823

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Tommerraas K, Varum KM, Christensen BE, Smidsrod O// Norwegian Univ Sci & Technol, Dept Biotechnol, Norwegian Biopolymer Lab, NOBIPOL, NTNU, NO-7491 Trondheim, Norway
Carbohydr Res 2001 **333** (2) 137

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Vikhoreva GA, Rogovina SZ, Pchelko OM, Galbraikh LS// Kosygin Moscow State Text Univ, Malaya Kaluzhskaya ul 1, RU-117918 Moscow, Russia
Polym Sci Ser B 2001 **43** (5-6) 166

The phase state and rheological properties of chitosan-acetic acid-water system

Wang DA, Ji J, Sun YH, Yu GH, Feng LX**// *Zhejiang Univ, Dept Polymer Sci & Engr, CN-310027 Hangzhou, Peoples Rep China
J Biomed Mater Res 2001 **58** (4) 372

Blends of stearyl poly(ethylene oxide) coupling-polymer in chitosan as coating materials for polyurethane intravascular catheters

Wu XG, Lu GH*, Zhang XY, Yao X// *Cent China Normal Univ, Dept Chem, CN-430079 Wuhan, Peoples Rep China
Anal Lett 2001 **34** (7) 1205

Anodic voltammetric behavior of iodide at a chitosan-modified glassy carbon electrode

Xiao CB, Weng LH, Lu YS, Zhang L// Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China
J Macromol Sci Pure Appl Chem 2001 **38** (8) 761

Blend films from chitosan and polyacrylamide solutions

Yan XL, Khor E, Lim LY**// *Nat'l Univ Singapore, Dept Pharm, 10 Lower

Kent Ridge Rd, SG-119260 Singapore, Rep Singapore

J Biomed Mater Res 2001 **58** (4) 358

Chitosan-alginate films prepared with chitosans of different molecular weights

Yang A, Wu RJ*// *Shanghai Jiao Tong Univ, State Key Lab Met Matrix Composite, CN-200030 Shanghai, Peoples Rep China

J Mater Sci Lett 2001 **20** (11) 977

Mechanical properties and interfacial interaction of a novel bioabsorbable chitin fiber reinforced poly(ϵ -caprolactone) composite

Yang AL, Wu RJ, Zhu PF// Shanghai Jiao Tong Univ, State Key Lab Met Matrix Composites, CN-200030 Shanghai, Peoples Rep China

J Appl Polym Sci 2001 **81** (13) 3117

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Yang J, Chung TW, Nagaoka M, Goto M, Cho CS, Akaike T*// *Tokyo Inst Technol, Dept Biomol Engr, Midori ku, 4259 Nagatsuta Cho, Yokohama, Kanagawa 226 850, Japan

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Hepatocyte-specific porous polymer-scaffolds of alginate/galactosylated chitosan sponge for liver-tissue engineering

5. Cyclodextrins

Ahsan F, Arnold JJ, Meezan E, Pillion DJ*// *Univ Alabama, Sch Med, Dept Pharmacol & Toxicol, 1670 Univ Blvd, Birmingham, Al 35294, USA

Pharmaceut Res 2001 **18** (5) 608

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Anibarro M, Gessler K, Uson I, Sheldrick GM, Saenger W*// *Free Univ Berlin, Inst Kristallog, Takustr 6, DE-14195 Berlin, Germany

Carbohydr Res 2001 **333** (3) 251

X-ray structure of β -cyclodextrin-2,7-dihydroxy-naphthalene-4,6 H₂O: An unusually distorted macrocycle

Bellini MS, Deyl Z, Manetto G, Kohlickova M// GlaxoSmithKline, Med Res Ctr, via Fleming 4, Verona, Italy

J Chromatogr A 2001 **924** (1-2) 483

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Cai WS, Xia BY, Shao XG, Guo QX, Maigret B, Pan ZX// Univ Sci & Technol China, Dept Appl Chem, CN-230026 Hefei, Peoples Rep China

Chem Phys Lett 2001 **342** (3-4) 387

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Chen FTA, Shen G, Evangelista RA// Beckman Coulter Inc, 4300 Nth Harbor Blvd, Fullerton, Ca 92835, USA

J Chromatogr A 2001 **924** (1-2) 523

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Crisma M, Fornasier R, Marcuzzi F// CNR, Biopolymer Res Ctr, via Marzolo 1, IT-35131 Padua, Italy

Carbohydr Res 2001 **333** (2) 145

The crystal structure of the 1:1 inclusion complex of β -cyclodextrin with squaric acid

Cucinotta V, Giuffrida A, Grasso G, Maccarrone G, Mazzaglia A, Vecchio G// Univ Catania, Dipt Sci Chim, Viale A Doria 6, IT-95125 Catania, Italy

Fresenius J Anal Chem 2001 **370** (4) 363

New cyclodextrin derivatives as chiral selectors in capillary electrophoresis

Engeldinger E, Armspach D, Matt D*// *Univ Louis Pasteur Strasbourg 1, Lab Chim Inorgan Mol, CNRS UMR 7513, 1 rue Blaise Pascal, FR-67008 Strasbourg, France

Angew Chem Int Ed 2001 **40** (13) 2526

Cyclodextrin cavities as probes for ligand-exchange processes

Fox SB, Culha M, Sepaniak MJ*// *Univ Tennessee, Dept Chem, Knoxville, Tn 37996, USA

J Liq Chromatogr Relat Technol 2001 **24** (9) 1209

Development of a grid search molecular mechanics modeling strategy to study elution behavior in cyclodextrin modified capillary electrophoresis

Fulton DA, Pease AR, Stoddart JF*// *UCLA, Dept Chem & Biochem, 405 Hilgard Ave, Los Angeles, Ca 90095, USA

Isr J Chem 2000 **40** (3-4) 325

Cyclodextrin-based carbohydrate clusters by amide bond formation

Galaverna G, Paganuzzi MC, Corradini R, Dossena A, Marchelli R*// *Univ Parma, Dipt Chim Organ & Ind, Parco Area Sci 17-A, IT-43100 Parma, Italy

Electrophoresis 2001 **22** (15) 3171

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Grard S, Elfakir C*, Dreux A// *Univ Orleans, Inst Chim Organ & Analyt,

CNRS UMR 6005, BP 6759, FR-45067 Orleans 2, France

J Chromatogr A 2001 **925** (1-2) 79

Analysis of sulfolbutyl ether- β -cyclodextrin mixtures by ion-spray mass spectrometry and liquid chromatography-ion-spray mass spectrometry

Hirayama F, Zaoh K, Harata K, Saenger W, Uekama K*// *Kumamoto Univ, Fac Pharmaceut Sci, 5-1 OE Honmachi, Kumamoto 862 0973, Japan

Chem Lett 2001 (7) 636

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Kobetic R, Jursic BS*, Bonnette S, Tsai JSC, Salvatore SJ// *Univ New Orleans, Dept Chem, New Orleans, La 70148, USA

Tetrahedron Lett 2001 **42** (35) 6077

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Koester LS, Gutierrez SS, Le Roch M, Eifler Lima VL, Zuanazzi JA, Bassani VL*// *Univ Fed Rio Grande Sul, Fac Farm, Curso Posgrad Ciencias Farmaceut, Avda Ipiranga 2752, BR-90610-000 Porto Alegre, RS, Brazil

Drug Dev Ind Pharm 2001 **27** (6) 533

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Larrucea E, Arellano A, Santoyo S, Ygartua P// Univ Navarra, Fac Farm, Dept Farm & Tecnol Farmaceut, ES-31080 Pamplona, Spain

Drug Dev Ind Pharm 2001 **27** (3) 251

Interaction of tenoxicam with cyclodextrins and its influence on the *in vitro* percutaneous penetration of the drug

Lebrilla CB// Univ Calif, Dept Chem, Davis, Ca 95616, USA

Account Chem Res 2001 **34** (8) 653

The gas-phase chemistry of cyclodextrin inclusion complexes

Lee S, Seo DH, Kim HW, Jung SH*// *Konkuk Univ, Dept Microbial Engr, Gwangjin Gu, Hwayangdong 1, Seoul 143701, South Korea

Carbohydr Res 2001 **334** (2) 119

Investigation of inclusion complexation of paclitaxel by cyclohexenicosakis-(1 $\rightarrow$ 2)(β -D-glucopyranosyl), by cyclic-(1 $\rightarrow$ 2)- β -D-glucans (cyclosophoraoses), and by cyclomaltoheptaoses (β -cyclodextrins)

Leung DK, Atkins JH, Breslow R*// *Columbia Univ, Dept Chem, New York, NY 10027, USA

Tetrahedron Lett 2001 **42** (36) 6255

Synthesis and binding properties of cyclodextrin trimers

Liu Y, Kang SZ// Nankai Univ, Dept Chem, CN-300071 Tianjin, Peoples Rep China

Sci China B 2001 **44** (3) 260

Molecular recognition on supramolecular systems (XXXV). Synthesis of novel β -cyclodextrin derivative bearing pyridinio group and its chiral discrimination of amino acids

Lu J, Hill MA, Hood M, Greeson DF, Horton JR, Orndorff PE, Herndon AS, Tonelli AE*// *Nth Carolina State Univ, POB 8301, Raleigh, NC 27695, USA

J Appl Polym Sci 2001 **82** (2) 300

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Makedonopoulou S, Mavridis IM*// *NCSR Demokritos, Inst Phys Chem, GR-15310 Athens, Greece

Carbohydr Res 2001 **335** (3) 213

The dimeric complex of cyclomaltoheptaose with 1,14-tetradecanedioic acid. Comparison with related complexes

Maynard DK, Vigh G*// Texas A&M Univ, Dept Chem, POB 30012, College Station, Tx 77842, USA

Electrophoresis 2001 **22** (15) 3152

Hepatakis(2-*O*-methyl-3,6-di-*O*-sulfo)- β -cyclodextrin: A single-isomer, 14-sulfated β -cyclodextrin for use as a chiral resolving agent in capillary electrophoresis

Mu TW, Liu L, Li XS, Guo QX*// *Univ Sci & Technol China, Dept Chem, CN-230026 Hefei, Peoples Rep China

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Ohtaki A, Kondo S, Shimura Y, Tonozuka T, Sakano Y, Kamitori S*// *Tokyo Univ Agr & Technol, Dept Biotechnol & Life Sci, 2-24-16 Naka cho, Koganei, Tokyo 184 8588, Japan

Carbohydr Res 2001 **334** (4) 309

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X-ray structures of the mutant TVAIIs, F286A and F286Y, and kinetic analyses of the Phe-286-replaced mutant TVAIIs

Olson K, Chen YY, Baker GL*// *Michigan State Univ, Dept Chem, East Lansing, MI 48824, USA

J Polym Sci A-Polym Chem 2001 **39** (16) 2731

Inclusion complexes of α -cyclodextrin and (AB)_n block copolymers

Panova IG, Matukhina EV, Popova EI, Gerasimov VI, Topchieva IN// Moscow MV Lomonosov State Univ, Fac Chem, Vorobevy Gory, RU-119899 Moscow, Russia

Polym Sci Ser A 2001 **43** (7) 771

Structure of inclusion complexes of (β -cyclodextrin with poly(propylene oxide)

Perrin C, Van der Heyden Y, Maftouh M, Massart DL*// *Free Univ Brussels, Inst Pharmaceut, Dept Pharmaceut & Biomed Anal, Laarbeeklaan 103, BE-1090 Brussels, Belgium

Electrophoresis 2001 **22** (15) 3203

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Piel G, Llabres G, Evrard B, Van Hees T, De Hassonville SH, Delattre L// Univ Liege, Inst Pharm Pharmaceut Technol Lab, BE-4000 Liege, Belgium

STP Pharma Sciences 2001 **11** (3) 235

A nuclear magnetic resonance study of the miconazole- β -cyclodextrin inclusion complex in an acidic medium: Determination of the structure and stability constants

Proniuk S, Blanchard J*// *Univ Arizona, Coll Pharm, Dept Pharmacol & Toxicol, Tucson, AZ 85721, USA

J Pharm Sci 2001 **90** (8) 1086

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Rao VM, Haslam JL, Stella VJ*// *Univ Kansas, Dept Pharmaceut Chem, 2095 Constant Ave, Lawrence, KS 66047, USA

J Pharm Sci 2001 **90** (7) 807

Controlled and complete release of a model poorly water-soluble drug, prenisolone, from hydroxypropyl methylcellulose matrix tablets using (SBE)_{7M}- β -cyclodextrin as a solubilizing agent

Shizuma M, Takai Y, Kawamura M, Takeda T, Sawada M// Osaka Municipal Tech Res Inst, Technochem Dept, Joto ku, Osaka 536 8553, Japan

J Chem Soc Perkins Trans 2 2001 (8) 1306

Complexation characteristics of permethylated cycloinulohexaose, cycloinulohptaose, and cycloinulooctaose with metal cations

Stenzel-Rosenbaum MH, Davis TP*, Chen VK, Fane AG// *Univ New Sth Wales, Sch Chem Engrg & Ind Chem, Ctr Adv Macromol Design, Sydney, NSW 2052, Australia

Macromolecules 2001 **34** (16) 5433

Synthesis of poly(styrene) star polymers grown from sucrose, glucose, and cyclodextrin cores via living radical polymerization mediated by a half-metallocene iron carbonyl complex

Stichler-Bonaparte J, Vasella A*// *ETH Zurich, Organ Chem Lab, Universitatstr 16, CH-8092 Zurich, Switzerland

Helv Chim Acta 2001 **84** (8) 2355

Oligosaccharide analogues of polysaccharides. Part XXIII. synthesis of a dimeric acetyleno cyclodextrin from a mannopyranose-derived dialkyne

Teranishi K// Mie Univ, Fac Bioresources, 1515 Kamihama, Tsu, Mie 514 8507, Japan

Tetrahedron Lett 2001 **42** (32) 5477

Regioselective 2^A,2^D-disulfonyl capping of β -cyclodextrin for practical bifunctionalization on the secondary hydroxyl face

Veiga F, Fernandes C, Maincent P// Univ Coimbra, Fac Farm, Lab Tecnol Farmaceut, Rua Norte, PT-3000 Coimbra, Portugal

Drug Dev Ind Pharm 2001 **27** (6) 523

Influence of the preparation method on the physicochemical properties of tolbutamide/cyclodextrin binary systems

Yang JY, Jung BT, Suh DH*// *Hanyang Univ, Dept Ind Chem, Seongdong gu, Haengdang 1 dong, Seoul 133791, South Korea

Polymer 2001 **42** (20) 8349

A simple attempt to change the solubility of polyimide by physical inclusion with β -cyclodextrin and its derivatives

Yuan DQ, Koga K, Kouogi Y, Fujita K// Nagasaki Univ, Fac Pharmaceut Sci, 1-14 Bunkyo machi, Nagasaki 852 8521, Japan

Tetrahedron Lett 2001 **42** (38) 6727

Synthesis of fullerene-cyclodextrin conjugates

Zannou EA, Streng WH, Stella VJ*// *Univ Kansas, Dept Pharmaceut Chem, Lawrence, KS 66047, USA

Pharmaceut Res 2001 **18** (8) 1226

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Zhu QH, Yu PX, Deng QY*, Zeng LM// *Zhongshan Univ, Sch Chem & Chem Engrg, CN-510275 Guangzhou, Peoples Rep China

J Planar Chromatogr Mod TLC 2001 **14** (2) 137

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Zia V, Rajewski RA, Stella VJ*// *Univ Kansas, Dept Pharmaceut Chem, 2095 Constant Ave, Lawrence, KS 66047, USA

Pharmaceut Res 2001 **18** (5) 667

Effect of cyclodextrin charge on complexation of neutral and charged substrates: Comparison of (SBE)_{7M}- β -CD to HP- β -CD

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Akim LG, Argyropoulos DS*, Jouanin L, Leple JC, Pilate G, Pollet B, Lapierre C// *McGill Univ, Dept Chem, Pulp & Paper Res Ctr, Montreal, Quebec, Canada H3A 2A7

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Capanema EA, Balakshin MY, Chen CL, Gratzl JS, Kirkman AG// Nth Carolina State Univ, Dept Wood & Paper Sci, Box 8005, Raleigh, NC 27695, USA

Holzforchung 2001 **55** (4) 397

Oxidative ammonolysis of technical lignins: Part I. Kinetics of the reaction under isothermal condition at 130°C

Capanema EA, Balakshin MY, Chen CL, Gratzl JS, Kirkman AG// Address as above.

Holzforchung 2001 **55** (4) 405

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Cathala B, Monties B// INRA, Unite Physicochim & Biotechnol Polymeres, Equipe Biochim Macromol Vegetales, FR-51686 Reims, France

Int J Biol Macromol 2001 **29** (1) 45

Influence of pectins on the solubility and the molar mass distribution of dehydrogenative polymers (DHPs, lignin model compounds)

Fukushima RS, Hatfield RD// Univ Sao Paulo, Fac Zootecnia & Engrg Alimentos, Avda Duque Caxias Norte 225, BR-13630-000 Pirassununga, SP, Brazil

J Agric Food Chem 2001 **49** (7) 3133

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Gundersen SA, Saether O, Sjoblom J*// *Statoil AS, R&D Ctr, NO-7005 Trondheim, Norway

Colloid Surface A 2001 **186** (3) 141

Salt effects on lignosulfonate and Kraft lignin stabilized o/w-emulsions studied by means of electrical conductivity and video-enhanced microscopy

7. Lipopolysaccharides

De Castro C, Lanzetta R, Molinaro A, Parrilli M, Piscopo V// Univ Naples Federico II, Dipt Chim Organ & Biochim, Complesso Univ Monte S Angelo, IT-80126 Naples, Italy

Carbohydr Res 2001 **335** (3) 205

Acetyl substitution of the O-specific polysaccharide caryophyllan from the phenol phase of *Pseudomonas (Burkholderia) caryophylli*

Kaplan JB, Perry MB, Maclean LL, Furgang D, Wilson ME, Fine DH// UMDNJ, New Jersey Dent Sch, Dept Oral Pathol Biol & Diagnost Sci, 185 Sth Orange Ave, Newark, NJ 07103, USA

Infect Immun 2001 **69** (9) 5375

Structural and genetic analyses of O polysaccharide from *Actinobacillus actinomycetemcomitans* serotype f

Knirel YA, Bystrova OV, Shashkov AS, Lindner B, Kochanova NA, Senchenkova SN, Moll H, Zahringer U, Hatano K, Pier GB// Russian Acad Sci, ND Selinskii Organ Chem Inst, Leninsky prospekt 47, RU-119991 Moscow, Russia

Eur J Biochem 2001 **268** (17) 4708

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Kocharova NA, Zatonsky GV, Bystrova OV, Shashkov AS, Knirel YA*, Kholodkova EV, Stanislavsky ES// *Russian Acad Sci, ND Zelinsky Inst Organ Chem, Leninsky prospekt 47, RU-119991 Moscow, Russia

Carbohydr Res 2001 **333** (4) 335

Structure of the O-specific polysaccharide of *Citrobacter braakii* O7a,3b,1c

Kondakova AN, Perepelov AV, Bartodziejska B, Shashkov AS, Senchenkova SN, Wykrota M, Knirel YA*, Rozalski A// *Russian Acad Sci, NZ Zelinskii Organ Chem Inst, Leninsky prospekt 47, RU-119991 Moscow, Russia

Carbohydr Res 2001 **333** (3) 241

Structure of the acidic O-specific polysaccharide from *Proteus vulgaris* O39 containing 5,7-diacetamido-3,5,7,9-tetraoxy-L-glycero-L-manno-non-2-ulonic acid

Lins RD, Straatsma TP// *Pacific NW Natl Labs, Environm Mol Sci Lab, Richland, Wa 99352, USA
Biophys J 2001 **81** (2) 1037

Computer simulation of the rough lipopolysaccharide membrane of *Pseudomonas aeruginosa*

Manzo E, Molinaro A, Bedini E, De Castro C, Parrilli M// *Univ Naples Federico II, Dipt Chim Organ & Biochem, via Cintia, IT-80126 Naples, Italy
Carbohydr Res 2001 **333** (4) 339

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Muldoon J, Perepelov AV, Shashkov AS, Gorshkova RP, Nazarenko EL, Zubkov VA, Ivanova EP, Knirel YA, Savage AV// *Natl Univ Ireland, Univ Coll Galway, Dept Chem, Galway, Rep Ireland
Carbohydr Res 2001 **333** (1) 41

Structure of a colitose-containing O-specific polysaccharide of the marine bacterium *Pseudoalteromonas tetraodonis* IAM 14160(T)

Paramonov N, Bailey D, Rangarajan M, Hashim A, Kelly G, Curtis MA, Hounsell EF// *Univ London, Birbeck Coll, Sch Biol & Chem Sci, Gordon House, 29 Gordon Sq, London WC1H 0PP, England
Eur J Biochem 2001 **268** (17) 4698

Structural analysis of the polysaccharide from the lipopolysaccharide of *Porphyromonas gingivalis* strain W50

Therisod H, Labas V, Caroff M// *Univ Paris 11, Equipe Endotoxines, CNRS UMR 8619, FR-91405 Orsay, France
Anal Chem 2001 **73** (16) 3804

Direct microextraction and analysis of rough-type lipopolysaccharides by combined thin-layer chromatography and MALDI mass spectrometry

Vinogradov EV, Pantophlet R, Brade H, Holst O// *Res Ctr Borstel, Div Analyt Biochem, Pk Allee 22, DE-23845 Borstel, Germany
J Endotoxin Res 2001 **7** (2) 113

Structural and serological characterisation of the O-antigenic polysaccharide of the lipopolysaccharide from *Acinetobacter* strain 96 (DNA group 11)

Yildirim H, Weintraub A, Widmalm G// *Univ Stockholm, Arrhenius Lab, Dept Organ Chem, SE-10691 Stockholm, Sweden
Carbohydr Res 2001 **333** (2) 179

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Zdorovenko GM, Vermeichenko SN// Natl Acad Sci Ukraine, Inst Microbiol & Virol, Zabolotny St 154, UA-252143 Kiev, Ukraine
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Zych K, Toukach FV, Arbatsky NP, Kolodziejska K, Senchenkova SN, Shashkov AS, Knirel YA, Sidorczyk Z// *Univ Lodz, Inst Microbiol & Immunol, Dept Gen Microbiol, Banacha 12-16, PL-90237 Lodz, Poland
Eur J Biochem 2001 **268** (15) 4346

Structure of the O-specific polysaccharide of *Proteus mirabilis* D52 and typing of this strain to *Proteus serogroup* O33

8. Pectin

Hada N, Ogino T, Yamada H, Takeda T// *Kyoritsu Coll Pharmaceut Sci, Minato ku, Shibakoen 1-5-30, Tokyo 105 8512, Japan
Carbohydr Res 2001 **334** (1) 7

Syntheses of model compounds related to an antigenic epitope in pectic polysaccharides from *Bupleurum falcatum* L

Hotchkiss AT, Lecrinier SL, Hicks KB// USDA/ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Wyndmoor, Pa 19038, USA
Carbohydr Res 2001 **334** (2) 135

Isolation of oligogalacturonic acids up to DP 20 by preparative high-performance anion-exchange chromatography and pulsed amperometric detection

Kobayashi T, Higaki N, Yajima N, Suzumatsu A, Hagihara H, Kawai S, Ito S// Kao Corp, Tochigi Res Labs, 2606 Akabane, Ichikai machi, Haga, Tochigi 321 3497, Japan
Biosci Biotechnol Biochem 2001 **65** (4) 842

Purification and properties of a galacturonic acid-releasing exopolysaccharidase from a strain of *Bacillus*

Monsoor MA, Proctor A// Univ Arkansas, Dept Food Sci, 2650 Nth Young Ave, Fayetteville, Ar 72704, USA
J Am Oil Chem Soc 2001 **78** (7) 709

Preparation and functional properties of soy hull pectin

Needs PW, Rigby NM, Ring SG, MacDougall AJ// Inst Food Res, Nutr Hlth

& Consumer Sci Div, Norwich Res Pk, Colney Lane, Norwich NR4 7UA, England

Carbohydr Res 2001 **333** (1) 47

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Sakiyama CCH, Paula EM, Pereira PC, Borges AC, Silva DO// *Univ Fed Vicos, BIOAGRO, Dept Microbiol, BR-36571-000 Vicos, MG, Brazil
Lett Appl Microbiol 2001 **33** (2) 117

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Schmelter T, Wientjes R, Vreeker R, Klaffke W// *Unilever Res Vlaardingen, PO Box 114, NL-3130 AC Vlaardingen, The Netherlands
Carbohydr Polym 2002 **47** (2) 99

Enzymatic modifications of pectins and the impact on their rheological properties

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