

Bibliography of carbohydrate polymers

(6 weeks journals. Search completed at 19th. May 2004)

1. Books, reviews & symposia

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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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5. Cyclodextrins

Charoenlap N, Dharmstithi S, Sirisansaneeyakul S, Lertsiri S*// *Mahidol Univ, Fac Sci, Dept Biotechnol, Rama VI Rd, TH-10400 Bangkok, Thailand

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Optimization of cyclodextrin production from sago starch

Choi HG, Kim DD, Jun HW, Yoo BK, Yong CS*// *Yeungnam Univ, Coll Pharm, Kyongsan 712 749, South Korea

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Carbohydr Res 2004 **339** (2) 241

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Dodziuk H, Kozminski W, Ejchart A// Polish Acad Sci, Inst Phys Chem, Kasprzaka 44-52, PL-01224 Warsaw, Poland

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Pharmazie 2004 **59** (1) 30

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Jambhekar S, Casella R*, Maher T// *AstraZeneca Inc, AstraZeneca Pharmaceut, 35 Gatehouse Dr, Waltham, Ma 02451, USA

Int J Pharm 2004 **270** (1-2) 149

The physicochemical characteristics and bioavailability of indomethacin from β -cyclodextrin, hydroxyethyl- β -cyclodextrin, and hydroxypropyl- β -cyclodextrin complexes

Jug M, Becirevic-Lacan M*// *Univ Zagreb, Fac Pharm & Biochem, Dept Pharmaceut, A Kovacica 1, HR-10000 Zagreb, Croatia

Eur J Pharm Sci 2004 **21** (2-3) 251

Influence of hydroxypropyl- β -cyclodextrin complexation on piroxicam release from buccoadhesive tablets

Loftsson T, Sigurdsson HH, Masson M, Schipper N// Univ Iceland, Fac Pharm, Hofsvallagata 53, IS-107 Reykjavik, Iceland

Pharmazie 2004 **59** (1) 25

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Mayes BA, Stetz RJE, Ansell CWG, Fleet GWJ*// *Univ Oxford, Dyson Perrins Lab, Sth Parks Rd, Oxford OX1 3QY, England

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Mocanu G, Carpov A// Inst Macromol Chem, Aleea Gr Ghica Voda 41 A, RO-6600 Iassi, Romania

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Functional carriers based on poly(ethyleneimine)-cyclodextrins microparticles

O'Brien EP, Moyna G*// *Univ Sci Philadelphia, Dept Chem & Biochem, 600 Sth 43rd St, Philadelphia, Pa 19104, USA

Carbohydr Res 2004 **339** (1) 87

Use of ¹³C chemical shift surfaces in the study of carbohydrate conformation. Application to cyclomaltooligosaccharides (cyclodextrins) in the solid state and in solution

Pose-Vilarnovo B, Rodriguez-Tenreiro C, Dos Santos JFR, Vazquez-Doval J, Concheiro A, Alvarez-Lorenzo C, Torres-Labandeira JJ*// *Univ Santiago de Compostela, Fac Farm, Dept Farm & Tecnol Farmaceut, Campus Sur, ES-15782 Santiago de Compostela, Spain

J Controlled Release 2004 **94** (2-3) 351

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Saito Y, Misawa K, Hashizaki K, Taguchi H, Ogawa N, Ueda H// Nihon Univ, Coll Pharm, 7-7-1 Narashinodai, Funabashi, Chiba 274 8555, Japan

Chem Pharm Bull Tokyo 2004 **52** (2) 259

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Trapani G, Lopedota A, Boghetich G, Latrofa A, Franco M, Sanna E, Liso G// Univ Bari, Fac Farm, Dipt Farmacochim, Via Orabona 4, IT-70125 Bari, Italy

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Bedini E, Barone G, Unverzagt C, Parrilli M*// *Univ Naples Federico II, Complesso Univ Monte Santangelo, Dipt Chim Organ & Biochim, IT-80126 Naples, Italy

Carbohydr Res 2004 **339** (2) 393

Synthesis of the pentasaccharide repeating unit of the major O-antigen component from *Pseudomonas syringae* pv. *ribicola* NVPPB 1010

Belot F, Wright K, Costachel C, Phalipon A, Mulard LA*// *Inst Pasteur, Unite Chim Organ, URA CNRS 2128, 28 rue Dr Roux, FR-75724 Paris 15, France

J Org Chem 2004 **69** (4) 1060

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Katzenellenbogen E, Kocharova NA, Bogulska M, Shashkov AS, Knirel YA// Polish Acad Sci, L Hirsfeld Inst Immunol & Expt Therapy, PL-53114 Wroclaw, Poland

Carbohydr Res 2004 **339** (3) 723

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Kilcoyne M, Perepelov AV, Tomshich SV, Komandrova NA, Shashkov AS, Romanenko LA, Knirel YA, Savage AV*// *Nat'l Univ Ireland, Univ Coll Galway, Dept Chem, Galway, Rep Ireland

Carbohydr Res 2004 **339** (3) 477

Structure of the O-polysaccharide of *Idiomarina zobellii* KMM 231^T containing two unusual amino sugars with the free amino group, 4-amino-4,6-dideoxy-D-glucose and 2-amino-2-deoxy-L-guluronic acid

Kocharova NA, Torzewska A, Zatonsky GV, Blaszczyk A, Bystrova OV, Shashkov AS, Knirel YA*, Rozalski A// *Russian Acad Sci, ND Zelinskii Organ Chem Inst, RU-119991 Moscow, Russia

Carbohydr Res 2004 **339** (2) 195

Structure of the O-polysaccharide of *Providencia stuartii* O4 containing 4-(N-acetyl-L-aspart-4-yl) amino-4,6-dideoxy-D-glucose

Kocharova NA, Mieszala M, Zatonsky GV, Staniszevska M, Shashkov AS, Gamian A*, Knirel YA// *Polish Acad Sci, L Hirsfeld Inst Immunol & Expt Therapy, Dept Immunol Infect Dis, Wiegla 12, PL-53114 Wroclaw, Poland

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Structure of the O-polysaccharide of *Citrobacter youngae* O1 containing an α-D-ribofuranosyl group

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Immunol, Dept Immunobiol Bacteria, PL-90237 Lodz, Poland

Carbohydr Res 2004 **339** (2) 409

Structure and cross-reactivity of the O-antigen of *Providencia stuartii* O18 containing 3-acetamido-3,6-dideoxy-D-glucose

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Carbohydr Res 2004 **339** (2) 415

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Kondakova AN, Fudala R*, Bednarska K, Senchenkova SN, Knirel YA, Kaca W// *Univ Lodz, Inst Microbiol & Immunol, PL-90237 Lodz, Poland

Carbohydr Res 2004 **339** (3) 623

Structure of the neutral O-polysaccharide and biological activities of the lipopolysaccharide of *Proteus mirabilis* O20

Ma ZC, Zhang JJ, Kong FZ*// *Chinese Acad Sci - Acad Sinica, Ecoenvironm Sci Res Ctr, POB 2871, CN-100085 Beijing, Peoples Rep China

Carbohydr Res 2004 **339** (1) 43

A concise synthesis of two isomeric pentasaccharides, the O repeat units from the lipopolysaccharides of *P. syringae* pv. *porri* NCPPB 3364^T and NCPPB 3365

Senchenkova SN, Shashkov AS, Knirel YA*, Wydra K, Witt F, Mavridis A, Rudolph K// *Russian Acad Sci, ND Zelinskii Organ Chem Inst, RU-119991 Moscow, Russia

Carbohydr Res 2004 **339** (1) 157

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Vinogradov E, Conlan WJ, Gunn JS, Perry MB*// *Nat'l Res Council Canada, Inst Biol Sci, Ottawa, Ontario, Canada K1A 0R6

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Vinogradov E, Korenevsky A, Beveridge TJ// NRC, Inst Biol Sci, 100 Sussex Dr, Ottawa, Ontario, Canada K1A 0R6

Carbohydr Res 2004 **339** (3) 737

The structure of the core region of the lipopolysaccharide from *Shewanella alga* BrY, containing 8-amino-3,8-dideoxy-D-manno-oct-2-ulosonic acid

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Diaz-Rojas EI, Pacheco-Aguilar R, Lizardi J, Arguelles-Monal W, Valdez MA, Rinaudo M, Goycoolea FM*// *Ctr Investig Aliment & Desarrollo AC - CIAD, Lab Biopolymers, PO Box 1735, Hermosillo, MX-83000 Sonora, CP, Mexico

Food Hydrocolloid 2004 **18** (2) 293

Linseed pectin: Gelling properties and performance as an encapsulation matrix for shark liver oil

Iglesias MT, Lozano JE*// *UNS, CONICET, PLAPIQUI, Camino Carrindanga km 7, CC 717, AR-8000 Bahia Blanca, Buenos Aires, Argentina

J Food Eng 2004 **62** (3) 215

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Levaj B, Dragovic-Uzelac V, Dancevic A, Frlan J// Univ Zagreb, Fac Food Technol & Biotechnol, Pierottieva 6, HR-10000 Zagreb, Croatia

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The effect of ripening and storage on peach pectin and gel strength of related jams

Marudova M, MacDougall AJ, Ring SG*// *AFRC Inst Food Res, Div Food Mat Sci, Norwich Res Pk, Colney, Norwich NR4 7UA, England

Carbohydr Res 2004 **339** (2) 209

Physicochemical studies of pectin/poly-L-lysine gelation

Matia-Merino L, Lau K, Dickinson E*// *Univ Leeds, Procter Dept Food Sci, Leeds LS2 9JT, England

Food Hydrocolloid 2004 **18** (2) 271

Effects of low-methoxyl amidated pectin and ionic calcium on rheology and

microstructure of acid-induced sodium caseinate gels

Mura P, Maestrelli F, Cirri M, Rodriguez MLG, Alvarez AMR// Univ Florence, Dipt Sci Farmaceut, Via Gino Capponi 9, IT-50121 Florence, Italy
J Drug Targ 2003 **11** (6) 365

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Murata Y, Miyashita M, Kofuji K, Miyamoto E, Kawashima S// Hokuriku Univ, Fac Pharmaceut Sci, Ho 3, Kanagawa machi, Kanazawa, Ishikawa 920 118, Japan

J Controlled Release 2004 **95** (1) 61

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Roy I, Gupta MN*// *Indian Inst Technol, Dept Chem, Hauz Khas, IN-110016 New Delhi, India

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Wehr JB, Menzies NW, Blamey FPC// Univ Queensland, Sch Land & Food Sci, Brisbane, Qld 4072, Japan

Food Hydrocolloid 2004 **18** (3) 375

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Yoo B, Yoo D, Kim YR, Lim ST// Dongguk Univ, Dept Food Sci & Technol, 3 Pil dong, Seoul 100 715, South Korea

Food Sci Biotechnol 2003 **12** (3) 316

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Food Sci Biotechnol 2003 **12** (5) 533

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9. Starch

Aggarwal V, Singh N*, Kamboj SS, Brar PS// *Guru Nanak Dev Univ, Dept Food Sci & Technol, IN-143005 Amritsar, India

Food Chem 2004 **85** (4) 585

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Al-Muhtaseb AH, McMinn WAM, Magee TRA*// *Queens Univ Belfast, Sch Chem Engr, Food Proc Engr Res Grp, David Keir Bldg, Stranmillis Rd, Belfast BT9 5AG, Northern Ireland

J Food Eng 2004 **62** (2) 135

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Boesel LF, Mano JF, Reis RL// Univ Minho, Dept Polymer Engr, Campus Azurem, PT-4800-058 Guimaraes, Portugal

J Mater Sci-Mater Med 2004 **15** (1) 73

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Boyaci IH, Williams PC, Koksel H*// *Hacettepe Univ, Dept Food Engr, Beytepe Campus, TR-06532 Ankara, Turkey

J Cereal Sci 2004 **39** (1) 139

A rapid method for the estimation of damaged starch in wheat flours

Bultosa G, Taylor JRN*// *Univ Pretoria, Dept Food Sci, ZA-0002 Pretoria, Rep Sth Africa

Starch 2004 **56** (1) 20

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Chatakononda P, Dickinson LC, Chinachoti P*// *Univ Massachusetts, Dept Food Sci, Amherst, Ma 01003, USA

J Agric Food Chem 2003 **51** (25) 7445

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Chen Z, Schols HA, Voragen AGJ*// *Univ Wageningen & Res Ctr, Dept Agrotechnol & Food Sci, Food Chem Lab, Bomenweg 2, NL-6703 HD Wageningen, The Netherlands

J Food Sci 2003 **68** (9) 2630

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Chuang GCC, Yeh AI*// *Natl Taiwan Univ, Grad Inst Food Sci & Technol, 1 Roosevelt Rd, Sect 4, Taipei 106, Taiwan

J Food Eng 2004 **63** (1) 21

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Chung HJ, Woo KS, Lim ST*// *Korea Univ, Grad Sch Life Sci & Biotechnol, 5-1 Anam-dong, Sungbuk-ku, Seoul 136-701, South Korea

Carbohydr Polym 2004 **55** (1) 9

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Dokic-Baucal L, Dokic P, Jakovljevic J// Fac Technol, Blvd Cara Lazara 1, YU-21000 Novi Sad, Yugoslavia

Food Hydrocolloid 2004 **18** (2) 233

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Fertig CC, Podczek F*, Jee RD, Smith MR*// *Univ Sunderland, Sunderland Pharm Sch, HNSS, Sunderland SR1 3SD, England

Eur J Pharm Sci 2004 **21** (2-3) 155

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Fiedorowicz M, Chaczatran G// Univ Agr, Dept Chem, Mickiewicza 21, PL-31120 Krakow, Poland

J Sci Food Agric 2004 **84** (1) 36

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Finkenstadt VL, Willett JL// USDA/ARS, Nat Ctr Agr Utilizat Res, Plant Polym Res, 1815 Nth Univ St, Peoria, IL 61604, USA

Carbohydr Polym 2004 **55** (2) 149

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Freitas RA, Paula RC, Feitosa JPA, Rocha S, Sierakowski MR*// *UFPR, Dept Quim, Lab Biopolimeros, PO Box 19081, BR-81531-990 Curitiba, PR, Brazil

Carbohydr Polym 2004 **55** (1) 3

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Gersh S, Gdalevsky GY, Gilboa L, Voorspoels J, Remon JP, Kost J// Ben Gurion Univ Negev, Inst Appl Biosci, POB 653, IL-84105 Beer Sheva, Israel

J Controlled Release 2004 **94** (2-3) 391

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Guan J, Hanna MA*// *211 LW Chase Hall, East Campus, Lincoln, Ne 68583, USA

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Han JA, Lim ST*// *Korea Univ, Grad Sch Biotechnol, Seoul 136-701, South Korea

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Haros M, Perez OE, Rosell CM// Inst Agroquim & Tecnol Alimentos - CSIC, POB 73, ES-46100 Burjassot, Spain

Cereal Chem 2004 **81** (1) 10

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Heinemann C, Cardinaux F, Scheffold F, Schurtenberger P, Escher F, Conde-Petit B*// *Swiss Fed Inst Technol - ETH Zurich, Inst Food Sci & Nutr, Lab Food Chem & Technol, CH-8092 Zurich, Switzerland

Carbohydr Polym 2004 **55** (2) 155

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Ishiguro K, Noda T, Yamakawa O// Natl Agr Res Ctr Kyushu Okinawa Res, Dept Upland Farming Res, 6651-2 Yokoichi, Miyakonojo, Miyazaki 885 0091, Japan

Starch 2003 **55** (12) 564

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Ji Y, Seetharaman K, White PJ*// *Iowa State Univ, Dept Food Sci & Human Nutr, Ames, Ia 50011, USA

Cereal Chem 2004 **81** (1) 55

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Ji Y, Pollak LM, Duvick S, Seetharaman K, Dixon PM, White PJ*// *Address as above

Cereal Chem 2004 **81** (1) 59

Gelatinization properties of starches from three successive generations of six exotic corn lines grown in two locations

Jonhed A, Jarnstrom L// Karlstad Univ, Dept Chem, SE-65188 Karlstad, Sweden

Starch 2003 **55** (12) 569

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Kaur L, Singh N*, Singh J// *Guru Nanak Dev Univ, Dept Food Sci & Technol, IN-143005 Amritsar, India

Carbohydr Polym 2004 **55** (2) 211

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Kawada J, Marchessault RH*// *McGill Univ, Dept Chem, 3420 Univ St, Montreal, Quebec, Canada H3A 2A7

Starch 2004 **56** (1) 13

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Kim S, Willett JL*// *USDA/ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, IL 61604, USA

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Carbohydr Polym 2004 **55** (1) 27

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Kiribuchi-Otobe C, Kurita K, Yanagisawa T, Takeda G, Inazu A// Natl Inst Crop Sci, Tsukuba, Ibaraki 305 8518, Japan

Cereal Chem 2004 **81** (1) 48

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Kitahara K, Copeland L// Kagoshima Univ, Fac Agr, Dept Biochem Sci & Technol, Korimoto 1-21-24, Kagoshima 890 0065, Japan

J Cereal Sci 2004 **39** (1) 91

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Kurakake M, Hagiwara H, Komaki T// Fukuyama Univ, Dept Appl Biol Sci, Hiroshima 729 0292, Japan

Cereal Chem 2004 **81** (1) 108

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Lawton JW, Shogren RL, Tiefenbacher KF// USDA/ARS, Natl Ctr Agr Utilizat Res, Plant Polymer Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA

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Lee YS, Oh SH, Lee JW, Kim JH, Kim DS, Byun MW*// *Korea Atom Energy Res Inst, Team Radiat Food Sci & Biotechnol, Dept Radiat Food Sci & Biotechnol, Taejon 305 600, South Korea

Food Sci Biotechnol 2003 **12** (5) 508

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Levy I, Paldi T, Shoseyov O*// *Hebrew Univ Jerusalem, Fac Agr Food & Environm Qual Sci, Inst Plant Sci & Genet Agr, POB 12, IL-76100 Rehovot, Israel

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Li FD, Li LT*, Li ZG, Tatsumi E// *China Agr Univ, Sino-Japanese Food Res Ctr, 17 Qinghua Donglu, CN-100083 Beijing, Peoples Rep China

J Food Eng 2004 **62** (2) 113

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Lourdin D, Colonna P, Ring SG// Inst Natl Rech Agron, BP 71627, FR-44316 Nantes, France

Carbohydr Res 2003 **338** (24) 2883

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Mandala IG, Bayas E// Agr Univ Athens, Dept Food Sci & Technol, Lab Engn Proc & Preservation Foods, 75 Iera Odos, GR-11855 Votanikos, Athens, Greece

Food Hydrocolloid 2004 **18** (2) 191

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Marconi E, Messia MC, Palleschi G, Cubadda R// Univ Molise, DISTAAM, Via Sanctis, IT-86100 Campobasso, Italy

Cereal Chem 2004 **81** (1) 6

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Miyazaki M, Maeda T, Morita N*// *Univ Osaka Prefecture, Coll Agr, Grad Sch Agr & Biol Sci, Food Chem Lab, 1-1 Gakuen cho, Sakai, Osaka 599 8531, Japan

Food Res Int 2004 **37** (1) 59

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Mukprasirt A, Sajjaanantakul K// King Mongkuts Inst Technol Nth Bangkok, Fac Sci Appl, Dept Agroind, TH-10800 Bangkok, Thailand

Int J Food Sci Technol 2004 **39** (3) 271

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Nagamori M, Funazukuri T*// *Chuo Univ, Inst Sci & Engr, Dept Appl Chem, 1-13-27 Kasuga, Bunkyo ku, Tokyo 112 8551, Japan

J Chem Technol Biotechnol 2004 **79** (3) 229

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Nakazawa Y, Wang YJ*// *Univ Arkansas, Dept Food Sci, 2650 Nth Young Ave, Fayetteville, Ar 72704, USA

Carbohydr Res 2003 **338** (24) 2871

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Food Hydrocolloid 2004 **18** (3) 379

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Peirs A, Scheerlinck N, De Baerdemaeker J, Nicolai BM// Catholic Univ Louvain, Lab Postharvest Technol, Willem Croylaan 42, BE-3001 Heverlee, Belgium

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Pohja S, Suihko E, Vidgren M, Paronen P, Ketolainen J*// *Univ Kuopio, Dept Pharmaceut, POB 1627, FI-70211 Kuopio, Finland

J Controlled Release 2004 **94** (2-3) 293

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Qi X, Tester RF*, Snape CE, Yuryev V, Wasserman LA, Ansell R// *Glasgow Caledonian Univ, Dept Biol & Biomed Sci, City Campus, Cowcaddens Rd, Glasgow, G4 0BA, Scotland

J Cereal Sci 2004 **39** (1) 57

Molecular basis of the gelatinisation and swelling characteristics of waxy barley starches grown in the same location during the same season. Part II. Crystallinity and gelatinisation characteristics

Rombo GO, Taylor JRN, Minnaar A*// *Univ Pretoria, Dept Food Sci, ZA-0002 Pretoria, Rep Sth Africa

J Sci Food Agric 2004 **84** (4) 350

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Shamai K, Shimoni E, Bianco-Peled H*// *Technion - Israel Inst Technol, Dept Chem Engr, IL-32000 Haifa, Israel

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Siriwong W, Tulyathan V*, Waeprub Y// *Chulalongkorn Univ, Fac Sci, Dept Food Technol, TH-10330 Bangkok, Thailand

J Food Biochem 2003 **27** (6) 471

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Spigno G, De Faveri DM// Univ Cattolica Sacro Cuore, Inst Oenol & Food Engr, Via Emilia Parmense 84, IT-29100 Piacenza, Italy

J Food Eng 2004 **62** (4) 337

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Tan I, Wee CC, Sopade PA, Halley PJ// Univ Queensland, Sch Engr, Chem Engr Div, Ctr High Performance Polymers, St Lucia, Qld 4072, Australia

Starch 2004 **56** (1) 6

Estimating the specific heat capacity of starch-water-glycerol systems as a function of temperature and compositions

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