

## Bibliography of carbohydrate polymers

(2 weeks journals. Search completed at 4th. July 2001)

### 1. Books, reviews & symposia

- Ann Dermatol Venereol* 2001 **128** (3 Suppl)  
Special issue: IALUSET - Use of hyaluronic acid in the treatment of crural ulcers
- Huttermann A, Mai C, Kharazipour A// Univ Gottingen, Inst Forstbot, Abt Tech Mykol, Busgenweg 2, DE-37077 Gottingen, Germany  
*Appl Microbiol Biotechnol* 2001 **55** (4) 387  
Modification of lignin for the production of new compounded materials (Mini-Review)
- Stevens CV, Meriggi A, Booten K// State Univ Ghent, Fac Agr & Appl Biol Sci, Dept Organ Chem, Coupure Links 653, BE-9000 Ghent, Belgium  
*Biomacromolecules* 2001 **2** (1) 1  
Chemical modification of inulin, a valuable renewable resource, and its industrial applications (Review)
- Tanaka A// Mie Univ, Fac Bioresources, Lab Mol Bioinformation, Tsu, Mie 514, Japan  
*Nippon Nogeikagaku Kaishi* 2001 **75** (5) 566  
Calorimetric aspects of the structure and function of glucoamylase (Mini-Review) (Japanese, English Abstract)

### 2. Cellulose

- Ahn BG, Choi US, Kim CH, Kwon OK// KAIST, Tribol Res Ctr, POB 131, Seoul 130650, South Korea  
*Int J Mod Phys B* 2001 **15** (6-7) 1009  
The effect of activation time of phosphoric ester cellulose particles on the electrorheological properties of anhydrous ER fluids
- Alves CR, Herrasti P\*, Ocon P, Avaca LA, Otero TF// \*Univ Autonoma Madrid, Dept Quim Fis Aplicada, ES-28049 Madrid, Spain  
*Polym J* 2001 **33** (3) 255  
Electrodeposition of polypyrrole/carboxymethyl cellulose on platinum and indium tin oxide
- Berggren J, Alderborn G// \*Uppsala Univ, Dept Pharm, Box 580, SE-75123 Uppsala, Sweden  
*Int J Pharm* 2001 **219** (1-2) 133  
Drying behaviour of two sets of microcrystalline cellulose pellets
- Biederman H, Boyaci IH, Bilkova P, Slavinska D, Mutlu S, Zemek J, Trchova M, Klimovic J, Mutlu M// Charles Univ, Dept Macromol Phys, V Holesovickach 2, CZ-18000 Prague 8, Czech Republic  
*J Appl Polym Sci* 2001 **81** (6) 1341  
Characterization of glow-discharge-treated cellulose acetate membrane surfaces for single-layer enzyme electrode studies
- Boerstel H, Maatman H, Picken SJ, Remmers R, Westerink JB// Acordis Res, POB 9600, NL-6800 TC Arnhem, The Netherlands  
*Polymer* 2001 **42** (17) 7363  
Liquid crystalline solutions of cellulose acetate in phosphoric acid
- Boerstel H, Maatman H, Westerink JB, Koenders BM// Address as above.  
*Polymer* 2001 **42** (17) 7371  
Liquid crystalline solutions of cellulose in phosphoric acid
- Fleming K, Gray DG, Matthews S// \*Univ London, Imperial Coll Sci Technol & Med, Ctr Struct Biol, Dept Biochem, London SW7 2AZ, England  
*Chem-Eur J* 2001 **7** (9) 1831  
Cellulose crystallites
- Gupta KC, Sahoo S// Univ Roorkee, Dept Chem, Polymer Res Lab, IN-

- 247667 Roorkee, India  
*Biomacromolecules* 2001 **2** (1) 239  
Graft copolymerization of acrylonitrile and ethyl methacrylate comonomers on cellulose using ceric ions
- Hino T, Ford JL// \*Liverpool John Moores Univ, Sch Pharm & Chem, James Parsons Bldg, Byrom St, Liverpool L3 3AF, England  
*Int J Pharm* 2001 **219** (1-2) 39  
Characterization of the hydroxypropylmethylcellulose-nicotinamide binary system
- Kim HS, Kim YJ, Kim JJ, Lee SD, Kang YS, Chin CS// KAIST, CFC Alternat Res Ctr, POB 131, Seoul 130650, South Korea  
*Chem Mater* 2001 **13** (5) 1720  
Spectroscopic characterization of cellulose acetate polymer membranes containing Cu(1,3-butadiene) OTf as a facilitated olefin transport carrier
- Kim UJ, Kuga S, Wada M, Okano T, Kondo T// Grad Sch Agr & Life Sci, Dept Biomat Sci, Bunkyo ku, Yayoi 1-1-1, Tokyo 113 8657, Japan  
*Biomacromolecules* 2000 **1** (3) 488  
Priodate oxidation of crystalline cellulose
- Kobayashi S, Hobson LJ, Sakamoto J, Kimura S, Sugiyama J, Imai T, Itoh T// Kyoto Univ, Grad Sch Engn, Dept Chem Mat, Kyoto 606 8501, Japan  
*Biomacromolecules* 2000 **1** (2) 168  
Formation and structure of artificial cellulose spherulites via enzymatic polymerization
- Li XG, Kresse I, Xu ZK, Springer J// Tongji Univ, Coll Mat Sci & Engn, Dept Polymer Mat Sci & Engn, 1239 Siping Rd, CN-200092 Shanghai, Peoples Rep China  
*Polymer* 2001 **42** (16) 6801  
Effect of temperature and pressure on gas transport in ethyl cellulose membrane
- Luukkonen P, Schaefer T, Podczek F, Newton M, Hellen L, Yliruusi J// Univ Helsinki, Dept Pharm, Pharmaceut Technol Div, POB 56, FI-00014 Helsinki, Finland  
*Eur J Pharm Sci* 2001 **13** (2) 143  
Characterization of microcrystalline cellulose and silicified microcrystalline cellulose wet masses using a powder rheometer
- Nakamichi K, Yasuura H, Fukui H, Oka M, Izumi S// Nippon Shinyaku Co Ltd, Pharmaceut Res Lab, Minami ku, 14 Nishinosyou Monguti cho, Kyoto 601 8500, Japan  
*Int J Pharm* 2001 **218** (1-2) 103  
Evaluation of a floating dosage form of nifedipine hydrochloride and hydroxypropylmethylcellulose acetate succinate prepared using a twin-screw extruder
- Okrasa L, Boiteux G, Ulanski J, Seytre G// Tech Univ Lodz, Dept Mol Phys, ul Zeromskiego 116, PL-90924 Lodz, Poland  
*Mater Res Innov* 2001 **4** (5-6) 278  
Molecular relaxations in the composites of liquid crystalline cellulose derivatives with poly(acrylic acid)
- Ou YF, Huang QL, Chen JN// Chinese Acad Sci, Guangzhou Inst Chem, Lab Cellulose & Lignocellulose Chem, CN-510650 Guangzhou, Peoples Rep China  
*J Appl Polym Sci* 2001 **81** (4) 809  
Degradation of new cellulose-based complex material
- Rajulu AV, Reddy RL, Rao GB, He JS, Zhang J// Sri Krishnadevaraya Univ, Dept Polymer Sci & Technol, Polymer Blends & Composites Div, IN-515003 Anantapur, Andhra Pradesh, India  
*J Appl Polym Sci* 2001 **81** (3) 557

As a service to subscribers, each issue of the Journal contains a bibliography of 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.

Miscibility study of cellulose acetate/carboxylated poly(vinyl chloride) blend in cyclohexanone by viscosity, ultrasonic velocity, refractive index, and polarizing microscopic methods

Roder T, Morgenstern B, Schelosky N, Glatter O// Graz Univ, Inst Chem, Heinrichstr 28, AU-8010 Graz, Austria  
*Polymer* 2001 **42** (16) 6765

Solutions of cellulose in *N,N*-dimethylacetamide/lithium chloride studied by light scattering methods

Rohrling J, Potthast A, Rosenau T, Lange T, Borgards A, Sixta H, Kosma P// \*Univ Agr Sci Vienna, Christian Doppler Lab, Muthgasse 18, AU-1190 Vienna, Austria  
*Synlett* 2001 (5) 682

Synthesis and testing of a novel fluorescence label for carbonyls in carbohydrates and celluloses

Stamatialis DF, Dias CR, De Pinho MN// \*Inst Super Tecn, Dept Chem Engrn, Avda Rovisco Pais, PT-1049-001 Lisbon, Portugal  
*Biomacromolecules* 2000 **1** (4) 564

Structure and permeation properties of cellulose esters asymmetric membranes

Sun YY, Sun G// \*Univ Calif, Div Text & Clothing, Davis, Ca 95616, USA  
*J Appl Polym Sci* 2001 **81** (3) 617

Novel regenerable *N*-halamine polymeric biocides. II. Grafting hydantoin-containing monomers onto cotton cellulose

Suzuki T, Kikuchi H, Yamamura S, Terada K, Yamamoto K// Daiichi Pharmaceutical Co Ltd, Pharmaceut Technol Res Labs, 16-13 Kita Kasai 1 chome Edogawa ku, Tokyo 134 8630, Japan  
*J Pharm Pharmacol* 2001 **53** (5) 609

The change in characteristics of microcrystalline cellulose during wet granulation using a high-shear mixer

### 3. Cellulose-degrading enzymes

Baker CS, Suvajittanont W, Bothwell MK\*, McGuire J// \*Oregon State Univ, Dept Bioengn, 116 Gilmore Hall, Corvallis, Or 97331, USA  
*Appl Biochem Biotechnol* 2001 **94** (1) 29

Adsorption of *Thermomonospora fusca* E5 and *Trichoderma reesei* cellobiohydrolase I cellulases on synthetic surfaces

Darias R, Villalonga R// \*Univ Matanzas, Fac Agron, Ctr Biotechnol Studies, Autopista Veradero km 3 1-2, CU-44740 Matanzas, Cuba  
*J Chem Technol Biotechnol* 2001 **76** (5) 489

Functional stabilization of cellulase by covalent modification with chitosan

Khalil AI, Beheary MS, Salem EM// Univ Alexandria, Inst Grad Studies & Res, Dept Environm Studies, Alexandria, Egypt  
*World J Microbiol Biotechnol* 2001 **17** (2) 155

Monitoring of microbial populations and their cellulolytic activities during the composting of municipal solid wastes

### 4. Chitin/Chitosan

Aiedeh K, Taha MO// Univ Jordan, Fac Pharm, Dept Pharmaceut Technol & Pharmaceut, Amman, Jordan

*Eur J Pharm Sci* 2001 **13** (2) 159

Synthesis of iron-crosslinked chitosan succinate and iron-crosslinked hydroxamated chitosan succinate and their *in vitro* evaluation as potential matrix materials for oral theophylline sustained-release beads

An XN, Su ZX// \*Lanzhou Univ, Dept Chem, CN-730000 Gansu, Peoples Rep China  
*J Appl Polym Sci* 2001 **81** (5) 1175

Characterization and application of high magnetic property chitosan particles

Auzely-Velty R, Rinaudo M// Univ Grenoble 1, CNRS, Ctr Rech Macromol Vegetales, BP 53, FR-38041 Grenoble, France  
*Macromolecules* 2001 **34** (11) 3574

Chitosan derivatives bearing pendant cyclodextrin cavities: Synthesis and inclusion performance

Bhatia SC, Ravi N// \*Spellman Coll, Dept Chem, Atlanta, Ga 30314, USA  
*Biomacromolecules* 2000 **1** (3) 413

A magnetic study of an Fe-chitosan complex and its relevance to other biomolecules

Cho YW, Jang J, Park CR, Ko SW// \*Seoul Natl Univ, Dept Fiber & Polymer Sci, Seoul 151742, South Korea  
*Biomacromolecules* 2000 **1** (4) 609

Preparation and solubility in acid and water of partially deacetylated chitins

Choi US, Ahn BG, Kwon OK// KAIST, Tribol Ctr, POB 131, Seoul 130650, South Korea  
*Int J Mod Phys B* 2001 **15** (6-7) 1025

Electrorheological behaviour of chitosan derivative suspensions

Chow KS, Khor E// \*Natl Univ Singapore, Dept Chem, 3 Sci Dr 3, SG-117543 Singapore, Rep Singapore

*Biomacromolecules* 2000 **1** (1) 61

Novel fabrication of open-pore chitin matrixes

Chow KS, Khor E\*, Wan ACA// \*Address as above.

*J Polym Res* 2001 **8** (1) 27

Porous chitin matrixes for tissue engineering: Fabrication and *in vitro* cytotoxic assessment

Fuentes S, Retuert PJ, Ubilla A, Fernandez J, Gonzalez G// \*Univ Chile, Fac Sci, Dept Chem, Casilla 653, Santiago, Chile

*Biomacromolecules* 2000 **1** (2) 239

Relationship between composition and structure in chitosan-based hybrid films

Heux L, Brugnerotto J, Desbrieres J, Versali MF, Rinaudo M// Univ Grenoble 1, CNRS, Ctr Rech Macromol Vegetales, BP 53, FR-38041 Grenoble 9, France  
*Biomacromolecules* 2000 **1** (4) 746

Solid state NMR for determination of degree of acetylation of chitin and chitosan

Kabalnova NN, Murinov KY, Mullagaliev IR, Krasnogorskaya NN, Shershovets VV, Monakov YB, Zaikov GE// \*Russ Acad Sci, Inst Biochem Phys, Ave Kosygin 4, RU-117901 Moscow, Russia  
*J Appl Polym Sci* 2001 **81** (4) 875

Oxidative destruction of chitosan under the effect of ozone and hydrogen peroxide

Matsuoka K, Matsuzawa Y, Kusano K, Terunuma D, Kuzuhara H// Saitama Univ, Fac Engrn, Dept Funct Mat Sci, Urawa, Saitama 338 8570, Japan  
*Biomacromolecules* 2000 **1** (4) 798

An improved preparation of *N,N'*-diacetylchitobiose by continuous enzymatic degradation of colloidal chitin using dialysis tubing as a convenient separator

Muzzarelli RAA, Muzzarelli C, Tarsi R, Miliani M, Gabbanelli F, Cartolari M// Univ Ancona, Fac Med, Ctr Innovat Biomat, via Ranieri 67, IT-60100 Ancona, Italy  
*Biomacromolecules* 2001 **2** (1) 165

Fungistatic activity of modified chitosans against *Saprolegnia parasitica*

Sakiyama T, Takata H, Toga T, Nakanishi K// Okayama Univ, Fac Engrn, Dept Biosci & Biotechnol, 3-1-1 Tsushima naka, Okayama 700 8530, Japan  
*J Appl Polym Sci* 2001 **81** (3) 667

pH-sensitive shrinking of a dextran sulfate/chitosan complex gel and its promotion effect on the release of polymeric substances

Sashiwa H, Thompson JM, Das SK, Shigemasa Y, Tripathy S, Roy R// \*Univ Ottawa, Dept Chem, Ottawa, Ontario, Canada K1N 6N5  
*Biomacromolecules* 2000 **1** (3) 303

Chemical modification of chitosan: Preparation and lectin binding properties of  $\alpha$ -galactosyl-chitosan conjugates. Potential inhibitors in acute rejection following xenotransplantation

Serizawa T, Yamaguchi M, Matsuyama T, Akashi M// \*Kagoshima Univ, Fac Engrn, Dept Appl Chem & Chem Engrn, 1-21-40 Korimoto, Kagoshima 890 0065, Japan  
*Biomacromolecules* 2000 **1** (3) 306

Alternating bioactivity of polymeric layer-by-layer assemblies: Anti- vs procoagulation of human blood on chitosan and dextran sulfate layers

Strand SP, Vandvik MS, Varum KM, Ostgaard K// Norwegian Univ Sci & Technol, Dept Biotechnol, Norwegian Biopolymer Lab, NO-7034 Trondheim, Norway  
*Biomacromolecules* 2001 **2** (1) 126

Screening of chitosan and conditions for bacterial flocculation

Yamada K, Chen TH, Kumar G, Vesnovsky O, Topoleski LDT, Payne GF// \*Nihon Univ, Coll Ind Technol, Dept Ind Chem, 1-2-1 Izumo cho, Narashino, Chiba 275 8575, Japan  
*Biomacromolecules* 2000 **1** (2) 252

Chitosan based water-resistant adhesive. Analogy to mussel glue

Yoon HG, Kim HY, Kim HK, Hong BS, Shin DH, Cho HY// \*Korea Univ, Grad Sch Biotechnol, Seoul 136701, South Korea  
*Biosci Biotechnol Biochem* 2001 **65** (4) 802

Thermostable chitosanase from *Bacillus* sp strain CK4: Its purification, characterization, and reaction patterns

### 5. Cyclodextrins

Boudad H, Legrand P, Lebas G, Cheron M, Duchene D, Ponchel G// \*CNRS UMR 8612, Fac Pharm, Lab Pharmacotech & Biopharm, 5 rue JB Clement, FR-92296 Chatenay Malabry, France  
*Int J Pharm* 2001 **218** (1-2) 113

Combined hydroxypropyl- $\beta$ -cyclodextrin and poly(alkylcyanoacrylate) nanoparticles intended for oral administration of saquinavir

Cucinotta V, Giuffrida A, Grasso G, Maccarrone G, Vecchio G// Univ Cata-

- nia, Dipt Sci Chim, Viale A Doria 6, IT-95125 Catania, Italy  
*J Chromatogr A* 2001 **916** (1-2) 61  
 Hemispherodextrins, a new class of cyclodextrin derivatives, in capillary electrophoresis  
 Ishiguro T, Fuse T, Oka M, Kurasawa T, Nakamichi M, Yasumura Y, Tsuda M, Yamaguchi T, Nogami I// Takeda Chem Ind Ltd, Div Pharmaceut Res, Dept Biotechnol, Yodogawa ku, 2-17-85 Jusohonmachi, Osaka 532 8686, Japan  
*Carbohydr Res* 2001 **331** (4) 423  
 Synthesis of branched cyclomaltooligosaccharide carboxylic acids (cyclodextrin carboxylic acids) by microbial oxidation  
 Kokkinou A, Yannakopoulou K, Mavridis IM, Mentzafos D\*// \*Agr Univ Athens, Phys Lab, Iera Odos 75, GR-11855 Athens, Greece  
*Carbohydr Res* 2001 **332** (1) 85  
 Structure of the complex of  $\beta$ -cyclodextrin with  $\beta$ -naphthoxyacetic acid in the solid state and in aqueous solution  
 Madison PH, Long TE\*// \*Virginia Polytech Inst & State Univ, Dept Chem, Blacksburg, Va 24061, USA  
*Biomacromolecules* 2000 **1** (4) 615  
 Carbohydrate/monomer complexes in aqueous polymerizations: Methylated- $\beta$ -cyclodextrin mediated aqueous polymerization of hydrophobic methacrylic monomers  
 Mazzaglia A, Donohue R, Ravoo BJ, Darcy R\*// \*Natl Univ Ireland, Univ Coll Dublin, Dept Chem, Lab Carbohydrate & Mol Recognit Chem, Belfield, Dublin 4, Rep Ireland  
*Eur J Org Chem* 2001 (9) 1715  
 Novel amphiphilic cyclodextrins: Graft-synthesis of heptakis(6-alkylthio-6-deoxy)- $\beta$ -cyclodextrin 2-oligo(ethylene glycol) conjugates and their  $\omega$ -halo derivatives  
 Mura P, Faucci MT, Bettinetti GP// Univ Florence, Dipt Sci Farmaceut, via G Capponi 9, IT-50121 Florence, Italy  
*Eur J Pharm Sci* 2001 **13** (2) 187  
 The influence of polyvinylpyrrolidone on naproxen complexation with hydroxypropyl- $\beta$ -cyclodextrin  
 Porbeni FE, Edeki EM, Shin ID, Tonelli AE\*// \*Nth Carolina State University, Fiber & Polymer Sci Program, Campus Box 8301, Raleigh, NC 27695, USA  
*Polymer* 2001 **42** (16) 6907  
 Formation and characterization of the inclusion complexes between poly(dimethylsiloxane) and polyacrylonitrile with  $\gamma$ -cyclodextrin  
 Sata T, Kawamura K, Higa M, Matsusaki K// Yamaguchi Univ, Choahima, Ohara 89-57, Tokuyama, Yamaguchi 745 08, Japan  
*Colloid Polym Sci* 2001 **279** (5) 413  
 Electrodialytic transport properties of anion-exchange membranes in the presence of  $\alpha$ -cyclodextrin  
 Sawunyama P, Jackson M, Bailey GW// US/EPA, Natl Res Council, 960 Coll Stn Rd, Athens, Ga 30605, USA  
*J Colloid Interface Sci* 2001 **237** (2) 153  
 Interactions of methyl orange with cyclodextrin/sodium-montmorillonite systems probed by UV-visible spectroscopy  
 Sreenivasan K// Sree Chitra Tirunal Inst Med Sci & Technol, Biomed Technol Wing, IN-695012 Trivandrum, Kerala, India  
*J Appl Polym Sci* 2001 **81** (2) 520  
 Effect of blending methyl  $\beta$ -cyclodextrin on the release of hydrophobic hydrocortisone into water from polyurethane  
 Stezotski JJ, Parker W, Hilgenkamp S, Gdaniec M// Univ Nebraska, Ctr Mat Res & Anal, Dept Chem, Lincoln, Ne 68588, USA  
*J Am Chem Soc* 2001 **123** (17) 3919  
 Pseudopolymorphism in tetradeca-2,6-*O*-methyl- $\beta$ -cyclodextrin: The crystal structures for two new hydrates-conformational variability in the alkylated  $\beta$ -cyclodextrin molecule  
 Takahashi K, Imotani K, Kitsuta M// Tokyo Inst Polytech, Fac Engr, Dept Appl Chem, 1583 Iiyama Atsugi, Kanagawa 243 029, Japan  
*Polym J* 2001 **33** (3) 242  
 Formation of superstructure composed of modified cyclodextrins as molecular "blocks" in aqueous solution with host-guest complexation. Correlation of chemical structure of modified group with complexation

## 6. Lignin

- Feldman D, Banu D, Camapanelli J, Zhu H// Concordia Univ, Dept Bldg Civil & Environm Engr, Montreal, Quebec, Canada H3G 1M8  
*J Appl Polym Sci* 2001 **81** (4) 861  
 Blends of vinylic copolymer with plasticized lignin: Thermal and mechanical properties  
 Kuroda K, Ozawa T, Ueno T// Univ Tsukuba, Inst Agr & Forest Engr, Tsu-

- kuba, Ibaraki 305 8572, Japan  
*J Agric Food Chem* 2001 **49** (4) 1840  
 Characterization of sago palm (*Metroxylon sagu*) lignin by analytical pyrolysis  
 Rozman HD, Tan KW, Kumar RN, Abubakar A// Univ Sains, Sch Ind Technol, George Town, Malaysia  
*J Appl Polym Sci* 2001 **81** (6) 1333  
 Preliminary studies on the use of modified ALCELL lignin as a coupling agent in the biofiber composites

## 7. Lipopolysaccharides

- Lorinczy D, Kocsis B// Univ Pecs, Fac Med, Inst Biophys, Szigeti ut 12, HU-7643 Pecs, Hungary  
*Thermochim Acta* 2001 **372** (1-2) 19  
 Interaction between lipopolysaccharide and detergents detected by differential scanning calorimetry

## 8. Pectin

- Missang GE, Renard CMGC, Baron A, Drilleau JF// Univ Sci & Tech Masuku, Dept Genie Agr, BP 941, Masuku Franceville, Gabon  
*J Sci Food Agric* 2001 **81** (8) 781  
 Changes in the pectic fraction of bush butter (*Dacryodes edulis* (G Don) HJ Lam) fruit pulp during ripening  
 Teixeira MFS, Lima JL, Duran N\*// \*Univ Estadual Campinas, Inst Quim, Lab Quim Biol, CP 6154, BR-13083-970 Campinas SP, Brazil  
*Braz J Microbiol* 2000 **31** (4) 286  
 Carbon sources effect on pectinase production from *Aspergillus japonicus* 586

## 9. Starch

- Ancona DAB, Guerrero LAC, Matos RIC, Ortiz GD// Univ Autonoma Yucatan, Fac Ing Quim, Avda Juarez 421, CD Ind, Apdo Postal 1226-a, Merida, MX-97288 Yucatan, Mexico  
*Starch* 2001 **53** (5) 219  
 Physicochemical and functional characterization of baby lima bean (*Phaseolus lunatus*) starch  
 De Souza FS, Barreto APG, Macedo RO\*// \*Univ Fed Paraiba, Lab Tecnol Farmaceut, Campus 1, BR-58059-900 Joao Pessoa, Paraiba, Brazil  
*J Therm Anal Calorim* 2001 **64** (2) 739  
 Characterization of starch pharmaceuticals by DSC coupled to a photovisual system  
 Einfeldt J, Meissner D, Kwasniewski A, Einfeldt L// Univ Rostock, Dept Phys Polymerphys, Universitätspl 3, DE-18051 Rostock, Germany  
*Polymer* 2001 **42** (16) 7049  
 Dielectric spectroscopic analysis of wet and well dried starches in comparison with other polysaccharides  
 Escalante LV, Merca FE, Juliano BO\*// \*Mindanao State Univ, Dept Chem, Marawi City, Philippines  
*Philipp Agric Sci* 2001 **84** (1) 76  
 Amylodextrin produced by hydrochloric acid corrosion of raw rice as fat replacer  
 Fernandez-Munoz JL, Zelaya-Angel O\*, Cruz-Orea A, Sanchez-Sinencio F// \*IPN, Ctr Invest Ciencia Aplicada & Tecnol Avanzada, Legaria 694 Col Irrigacion, MX-11500 Mexico City, DF, Mexico  
*Anal Sci* 2001 **17** (Suppl 1) S338  
 Phase transitions in amylose and amylopectin under the influence of  $\text{Ca}(\text{OH})_2$  in aqueous solution  
 Franz A, Braunlich P, Gamsjager T, Felfernig M, Gustorff B, Kozek-Langenecker SA\*// \*Univ Vienna, Dept Anesthesiol & Intens Care B, Sch Med, Wahringer Gurtel 18-20, AU-1090 Vienna, Austria  
*Anaesth Analg* 2001 **92** (6) 1402  
 The effects of hydroxyethyl starches of varying molecular weight on platelet function  
 Glorieux C, Antoniow JS, Chirtoc M, Chirtoc I, Thoen J// Katholieke Univ Leuven, Dept Nat Kunde, Lab Akoestiek & Therm Fys, Celestunenlaan 2000, BE-3001 Louvain, Belgium  
*Anal Sci* 2001 **17** (Suppl 1) S398  
 Neural network photothermal depth profiling of a heat source distribution, application to water migration in starch sheets  
 Hibi Y// Univ Shiga Prefecture, Sch Human Cultures, Dept Life Style Studies, Course Food Sci & Nutr, Hikone 522 8533, Japan  
*Starch* 2001 **53** (5) 227  
 Effects of retrograded waxy corn starch on bread staling  
 Kapusniak J, Ciesielski QW, Koziol JJ, Tomasik P\*// \*Univ Agr, Dept Chem,

Mickiewicz Ave 21, PL-31120 Krakow, Poland

*Thermochim Acta* 2001 **372** (1–2) 119

Thermogravimetry- and differential scanning calorimetry-based studies of the solid state reactions of starch polysaccharides with proteogenic amino acids

Kim CH, Cho KY, Park JK\*// \*KAIST, Dept Chem Engr, 373-1 Kusung dong, Taejon 305701, South Korea

*J Appl Polym Sci* 2001 **81** (6) 1507

Reactive blends of gelatinized starch and polycaprolactone-g-glycidyl methacrylate

Kozhevnikov GO, Protserov VA, Wasserman LA, Pavlovskaya NE, Golischkin LV, Milyaev VN, Yuryev VP\*// \*Russian Acad Sci, Inst Biochem Phys, Kosygina St 4, Moscow, Russia

*Starch* 2001 **53** (5) 201

Changes of thermodynamic and structural properties of wrinkled pea starches (Z-301 and Paramazent varieties) during biosynthesis

Kuakpetoon D, Wang YJ\*// \*Univ Arkansas, Dept Food Sci, Fayetteville, Ar 72704, USA

*Starch* 2001 **53** (5) 211

Characterization of different starches oxidized by hypochlorite

Lee EJ, Lee SW, Choi HG, Kim CK\*// \*Seoul Natl Univ, Coll Pharm, Natl Res Lab Drug & Gene Delivery, Kwanak ku, San 56-1 Shinlim dong, Seoul 151742, South Korea

*Int J Pharm* 2001 **218** (1–2) 125

Bioavailability of cyclosporin A dispersed in sodium lauryl sulfate-dextrin based solid microspheres

Oliver A, Cazaux F, Gors C, Coqueret X\*// \*Univ Sci & Technol Lille, UPRESA CNRS 8009, Lab Chim Macromol, FR-59655 Villeneuve d'Ascq, France

*Biomacromolecules* 2000 **1** (2) 282

Physical stabilization of starch-allylurea blends by EB-grafting: A compositional and structural study

Pan DD, Jane JL\*// \*Iowa State Univ, Dept Food Sci & Human Nutr, Ames, Ia 50011, USA

*Biomacromolecules* 2000 **1** (1) 126

Internal structure of normal maize starch granules revealed by chemical surface gelatinization

Perry PA, Donald AM\*// \*Univ Cambridge, Cavendish Lab, Polymers & Colloids Grp, Madingley Rd, Cambridge CB3 0HE, England

*Biomacromolecules* 2000 **1** (3) 424

The role of plasticization in starch granule assembly

Resio AC, Suarez C\*// \*Fac Ciencias Exactas & Nat Buenos Aires, Dept Ind, Ciudad Univ, AR-1428 Buenos Aires, DF, Argentina

*Int J Food Sci Technol* 2001 **36** (4) 441

Gelatinization kinetics of amaranth starch

Souza RCR, Andrade CT\*// \*Univ Fed Rio de Janeiro, Inst Macromol Prof Eloisa Mano, POB 68525, BR-21945-970 Rio de Janeiro, Brazil

*J Appl Polym Sci* 2001 **81** (2) 412

Processing and properties of thermoplastic starch and its blends with sodium alginate

Vaz CM, Reis RL, Cunha AM// Univ Minho, Dept Polymer Engr, PT-4800-058 Guimaraes, Portugal

*Mater Res Innov* 2001 **4** (5–6) 375

Degradation model of starch-EVOH + HA composites

Watanabe H, Fukuoka M, Tomiya A, Mihori T// Tokyo Univ Fisheries, Food Sci & Technol Dept, Konan 4 chome, Tokyo 108 8477, Japan

*J Food Eng* 2001 **49** (1) 1

A new non-Fickian diffusion model for water migration in starchy food during cooking

Zhu ZF, Zhuo RX// Wuhan Univ, Dept Chem, Res Lab SEDC Biomed Polymer Mat, CN-430072 Wuhan, Peoples Rep China

*J Appl Polym Sci* 2001 **81** (6) 1535

Controlled release of carboxylic-containing herbicides by starch-g-poly(butyl acrylate)

## 10. Starch-degrading enzymes

Odibo FJC, Ulbrich-Hofmann R\*// \*Univ Halle Wittenberg, Fachbereich Biochem Biotechnol, Kurt Mothes Str 3, DE-06120 Halle an der Saale, Germany

*Acta Biotechnol* 2001 **21** (2) 141

Thermostable  $\alpha$ -amylase and glucoamylase from *Thermomyces lanuginosus* F1

Teodoro CED, Martins MLL\*// \*Univ Estadual Norte Fluminense, Ctr Ciencias & Tecnol Agropecuarias, Avda Alberto Lamego 2000, BR-28015-620 S Jose Campos, RJ, Brazil

*Braz J Microbiol* 2000 **31** (4) 298

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Walker JW, Bringham TA, Broadhead AL, Brosnan JM, Pearson SY// Scotch Whisky Res Inst, Res Pk North, Robertson Trust Bldg, Edinburgh, Scotland

*J Inst Brew* 2001 **107** (2) 99

The survival of limit dextrinase during fermentation in the production of Scotch whisky

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Amici E, Clark AH\*, Normand V, Johnson NB// \*Unilever Res Colworth, Colworth Lab, Sharnbrook MK44 1LQ, England

*Biomacromolecules* 2000 **1** (4) 721

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Bao XF, Liu CP, Fang JN\*, Li XY\*// \*Chinese Acad Sci, Inst Biol Sci, Inst Mat Med, 294 Tai Yuan Rd, CN-200031 Shanghai, Peoples Rep China

*Carbohydr Res* 2001 **332** (1) 67

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Chern CS, Lee CK, Tsai YJ// Natl Taiwan Univ Sci & Technol, Dept Chem Engr, 43 Keelung Rd Sec 4, Taipei 106, Taiwan

*Colloid Polym Sci* 2001 **279** (5) 420

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Gorret N, Maubois JL, Ghoul M, Engasser JM// MIT, Dept Biol, Room 68-370, 77 Massachusetts Ave, Cambridge, Ma 02139, USA

*J Appl Microbiol* 2001 **90** (5) 779

Exopolysaccharide production by *Propionibacterium acidi-propionici* on milk microfiltrate

Gorret N, Maubois JL, Engasser JM, Ghoul M// Address as above.

*J Appl Microbiol* 2001 **90** (5) 788

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Heng LS, Ning J, Kong FZ\*// \*Chinese Acad Sci, Ecoenvironm Sci Res Ctr, POB 2871, CN-100085 Beijing, Peoples Rep China

*Carbohydr Res* 2001 **331** (4) 431

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Huynh R, Chaubet F\*, Jozefonvicz J// \*Inst Galilee, CNRS FRE 2314, Lab Rech Macromol, 99 Ave JB Clement, FR-93430 Villeteuse, France

*Carbohydr Res* 2001 **332** (1) 75

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Ioan CE, Aberle T, Burchard W\*// \*Univ Freiburg, Inst Macromol Chem, DE-79104 Freiburg, Germany

*Macromolecules* 2001 **34** (11) 3765

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Letisse F, Chevallereau P, Simon JL, Lindley ND\*// \*Inst Natl Sci Appl, UMR CNRS, Lab Biotechnol Bioprocedes, 135 Ave De Ranguell, FR-31077 Toulouse 4, France

*Appl Microbiol Biotechnol* 2001 **55** (4) 417

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Lopez MJ, Moreno J, Ramos-Cormenzana A// Univ Almeria, Cite 2B, Dept Biol Aplicada, Unidad Microbiol, Canada de San Urbano, ES-04120 Almeria, Spain

*J Appl Microbiol* 2001 **90** (5) 829

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Mahapatra AP, Samal RK, Samal RN, Roy GS\*// \*Pathani Samanta Planetarium, Bhubaneswar, Orissa, India

*J Appl Polym Sci* 2001 **81** (2) 440

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Marshall VM, Dunn H, Elvin M, McLay N, Gu Y, Laws AP\*// \*Univ Huddersfield, Dept Chem & Biol Sci, Huddersfield HD1 3DH, England

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Martin GG, Cannon GC, McCormick CL\*// \*Univ Sthn Mississippi, Dept Chem & Biochem, Hattiesburg, Ms 39406, USA

*Biomacromolecules* 2000 **1** (1) 49

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Rougeaux H, Guezennec M, Che LM, Payri C, Deslandes E, Guezennec J\*// \*IFREMER, Ctr Brest Drv, VP BMM BP 70, FR-29280 Plouzane, France

*Mar Biotechnol* 2001 **3** (2) 181

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Saito K, Kazama S, Tanizawa H, Ito T, Tada M, Ogata T, Yoshioka H// Univ Shizuoka, Sch Pharmaceut Sci, Inst Environm Sci, 52-1 Yada, Shizuoka 422 8526, Japan

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Steels JD, Schoth RM, Jensen JP// Univ Guelph, Dept Chem & Biochem, Guelph, Ontario, Canada N1G 2W1

*Zuckerindustrie* 2001 **126** (4) 264

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Stenekes RJH, De Smedt SC, Demeester J, Sun GZ, Zhang ZB, Hennink WE// \*Univ Utrecht, Inst Pharmaceut Sci, Dept Pharmaceut, POB 80082, NL-3508 TB Utrecht, The Netherlands

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Tuinier R, Oomen CJ, Zoon P, Stuart MAC, De Kruif CG// NIZO Food Res, POB 20, NL-6710 BA Ede, The Netherlands

*Biomacromolecules* 2000 **1** (2) 219

Viscoelastic properties of an exocellular polysaccharide produced by a *Lactococcus lactis*

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Cheng Y, Prudhomme RK// Princeton Univ, Dept Chem Engr, Princeton, NJ 08544, USA

*Biomacromolecules* 2000 **1** (4) 782

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Crescenzi V, Hartmann M, De Nooy AEJ, Rori V, Masci G, Skjak-Braek G// \*Norwegian Univ Sci & Technol, Dept Biotechnol, Sem Saelands Vei 6-8, NO-7491 Trondheim, Norway

*Biomacromolecules* 2000 **1** (3) 360

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Dong Q, Fang JN// Chinese Acad Sci, Inst Mat Med, 294 Tai Yuan Rd, CN-20031 Shanghai, Peoples Rep China

*Carbohydr Res* 2001 **332** (1) 109

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Freccer V, Rizzo R, Miertus S// \*UNIDO, Inst Ctr Sci & High Technol, Area Sci Pk, Padriciano 99, IT-34012 Trieste, Italy

*Biomacromolecules* 2000 **1** (1) 91

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Jones F, Colfen H\*, Antonietti M// \*Max-Planck-Inst Colloid & Interfaces, Res Campus Potsdam-Golm, DE-14424 Potsdam, Germany

*Biomacromolecules* 2000 **1** (4) 556

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Ju HK, Kim SY, Lee YM// Hanyang Univ, Coll Engr, Sch Chem Engr, Seongdong ku, Seoul 133791, South Korea

*Polymer* 2001 **42** (16) 6851

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Mangin CM, Gooldall DM, Roberts MA// \*Nestle Res Ctr, CH-1000 Lausanne, Switzerland

*Electrophoresis* 2001 **22** (8) 1460

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Missang CE, Renard CMGC, Baron A, Drilleau JF// Univ Sci & Tech Masuku, Dept Genic Agr, BP 941, Masuku Franceville, Gabon

*J Sci Food Agric* 2001 **81** (8) 773

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Motomura H, Nozaki Y// Omur Jyonan Senior High Sch, Nagasaki 856 0835, Japan

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Normand V, Lootens DL, Amici E, Plucknett KP, Aymard P// Fermentich SA, 1 Route Jeunes, CH-1211 Geneva 8, Switzerland

*Biomacromolecules* 2000 **1** (4) 730

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Roubroeks JP, Mastronmauro DI, Andersson R, Christensen BE, Aman P// Univ Agr Sci, Dept Food Sci, POB 7051, SE-75007 Uppsala, Sweden

*Biomacromolecules* 2000 **1** (4) 584

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Schneider G, Strehaiano P, Taillandier P// \*INP-ENSIGC Lab Gen Chim, CNRS UMR 5503, 18 Chemin Loge, FR-31078 Toulouse 4, France

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Williams MAK, Foster TJ, Martin DR, Norton IT, Yoshimura M, Nishinari K// Unilever Res, Colworth House, Sharnbrook MK44 1LQ, England

*Biomacromolecules* 2000 **1** (3) 440

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Xiao CB, Lu YS, Zhang L// Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China

*J Appl Polym Sci* 2001 **81** (4) 882

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*J Appl Polym Sci* 2001 **81** (5) 1049

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Back MG, Roy R// \*Univ Ottawa, Dept Chem, Ottawa, Ontario, Canada K1N 6N5

*Biomacromolecules* 2000 **1** (4) 768

Design and synthesis of water-soluble glycopolymers bearing breast tumor marker and enhanced lipophilicity for solid-phase assays

Bratskaya SY, Avramenko VA// Russian Acad Sci, Inst Chem, Far East Div, pr Stoletiya Vladivostoka 159, RU-690022 Vladivostok, Russia

*Colloid J-Engl Tr* 2001 **63** (2) 137

Sorption of anionic polysaccharides and bovine serum albumin on a macroporous glass

De Nooy AEJ, Capitani D, Masci G, Crescenzi V// \*Univ Roma La Sapienza, Dept Chem, Ple Aldo Moro 5, IT-00185 Rome, Italy

*Biomacromolecules* 2000 **1** (2) 259

Ionic polysaccharide hydrogels *via* the Passerini and Ugi multicomponent condensations: Synthesis, behavior and solid-state NMR characterization

Iijima M, Hatakeyama T\*, Takahashi M, Hatakeyama H// \*Otsuma Women's Univ, Chiyoda ku, 12 Sanban cho, Tokyo 102 8357, Japan

*J Therm Anal Calorim* 2001 **64** (2) 617

Thermomechanical analysis of polysaccharide hydrogels in water

Krause WE, Bellomo EG, Colby RH// \*Penn State Univ, Dept Chem, 152 Davey Lab, University, Pa 16802, USA

*Biomacromolecules* 2001 **2** (1) 65

Rheology of sodium hyaluronate under physiological conditions

Luo Y, Ziebell MR, Prestwich GD// \*Univ Utah, Dept Med Chem, 30 South 2000 East, Room 201, Salt Lake City, Ut 84112, USA

*Biomacromolecules* 2000 **1** (2) 208

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Mischnick P, Hennig C// Braunschweig Univ Technol, Inst Food Chem, Schleinitzstr 20, DE-38106 Braunschweig, Germany

*Biomacromolecules* 2001 **2** (1) 180

A new model for the substitution patterns in the polymer chain of polysaccharide derivatives

Nagahori N, Nishimura SI// \*Hokkaido Univ, Grad Sch Sci, Div Biol Sci, Lab Biomacromol Chem, Sapporo, Hokkaido 060 081, Japan

*Biomacromolecules* 2001 **2** (1) 22

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Sugahara S, Okuno S, Yano T, Hamana H, Inoue K// Drug Delivery Syst Int Ltd, 2669 Yamazaki, Noda, Chiba 278 0022, Japan

*Biol Pharm Bull* 2001 **24** (5) 535

Characteristics of tissue distribution of various polysaccharides as drug carriers: Influence of molecular weight and anionic charge on tumor targeting

Tamura J, Urashima H, Tsuchida K, Kitagawa H, Sugahara K// Tottori Univ, Fac Educ & Reg Sci, Dept Environm Sci, Tottori 680 8551, Japan

*Carbohydr Res* 2001 **332** (1) 41

Synthesis of linear-type chondroitin clusters having a  $C_8$  spacer between disaccharide moieties and enzymatic transfer of D-glucuronic acid to the artificial glycans

Zhu YL, Kong FZ// \*Chinese Acad Sci, Acad Sinica, Ecoenvironm Sci Res Ctr, POB 2871, CN-100085 Beijing, Peoples Rep China

*Carbohydr Res* 2001 **332** (1) 1

A facile and effective synthesis of  $\alpha$ -(1 $\rightarrow$ 6)-linked mannose di-, tri-, tetra-, hexa-, octa-, and dodecasaccharides, and  $\beta$ -(1 $\rightarrow$ 6)-linked glucose di-, tri-, tetra-, hexa-, and octasaccharides using sugar trichloroacetimidates as the donors and unprotected or partially protected glycosides as the acceptors