

# Bibliography of carbohydrate polymers

(3 weeks journals. Search completed at 28th. Mar. 2007)

## 1. Reviews

Gerente C, Lee VKC, Le Cloirec P, McKay G\*// \*Hong Kong Univ Sci & Technol, Dept Chem Engr, Clearwater Bay, Kowloon, Hong Kong, Peoples Rep China

*Crit Rev Environ Sci Technol* 2007 **37** (1) 41

Application of chitosan for the removal of metals from wastewaters by adsorption - Mechanisms and models review

Miyazaki M, Van Hung P, Maeda T, Morita N\*// \*Univ Osaka Prefecture, Food Chem Lab, 1-1 Gakuen cho, Sakai, Osaka 599 8531, Japan

*Trends Food Sci Technol* 2006 **17** (11) 591

Recent advances in application of modified starches for breadmaking

## 2. Cellulose

Chakraborty T, Chakraborty I, Ghosh S\*// \*Jadavpur Univ, Dept Chem, Ctr Surface Sci, IN-700032 Kolkata, India

*Langmuir* 2006 **22** (24) 9905

Sodium carboxymethylcellulose-CTAB interaction: A detailed thermodynamic study of polymer-surfactant interaction with opposite charges

Chiba R, Nishio Y\*, Sato Y, Ohtaki M, Miyashita Y// \*Kyoto Univ, Grad Sch Agr, Div Forest & Biomat Sci, Kyoto 606 8502, Japan

*Biomacromolecules* 2006 **7** (11) 3076

Preparation of cholesteric (hydroxypropyl) cellulose/polymer networks and ion-mediated control of their optical properties

Dadi AP, Varanasi S, Schall CA\*// \*Univ Toledo, Dept Environm Chem & Engr, Toledo, Oh 43606, USA

*Biotechnol Bioeng* 2006 **95** (5) 904

Enhancement of cellulose saccharification kinetics using an ionic liquid pretreatment step

Gindl W, Martinschitz KJ, Boesecke P, Keckes J// Univ Nat Resources & Appl Life Sci, Dept Mat Sci & Proc Engr, Vienna, Austria

*Biomacromolecules* 2006 **7** (11) 3146

Changes in the molecular orientation and tensile properties of uniaxially drawn cellulose films

Keshk S, Sameshima K// Ain Shams Univ, Inst Environm Studies & Res, Cairo, Egypt

*Enzyme Microb Technol* 2006 **40** (1) 4

Influence of lignosulfonate on crystal structure and productivity of bacterial cellulose in a static culture

Keshk S// Address as above

*Enzyme Microb Technol* 2006 **40** (1) 9

Physical properties of bacterial cellulose sheets produced in presence of lignosulfonate

Kleimann J, Lecoultré G, Papastavrou G, Jeanneret S, Galletto P, Koper GJM, Borkovec M\*// \*Univ Geneva, Dept Inorgan Anal & Appl Chem, 30 Quai Ernest Ansermet, CH-1211 Geneva 4, Switzerland

*J Colloid Interface Sci* 2006 **303** (2) 460

Deposition of nanosized latex particles onto silica and cellulose surfaces studied by optical reflectometry

Kosaka PM, Kawano Y, Petri HM, Fantini MCA, Petri DFS\*// \*Univ Sao Paulo, Inst Quim, Av Prof Lineu Prestes 748, Sao Paulo, Brazil

*J Appl Polym Sci* 2007 **103** (1) 402

Structure and properties of composites of polyethylene or maleated polyethylene and cellulose or cellulose esters

Kube T, Sutter M, Trittler R, Feltgen N, Hansen LL, Agostini HT\*// \*University Freiburg, Department Ophthalmology, Killianstrasse 5, DE-79106 Freiburg, Germany

*Graefes Arch Clin Exp Ophthalmol* 2006 **244** (11) 1385

Carboxymethylcellulose as a new carrier substance for intravitreal injection of reproducible amounts of triamcinolone

Liu CF, Xu F, Sun JX, Ren JL, Curling S, Sun RC\*, Fowler P, Baird MS// \*NW Univ Agr & Forest Sci & Technol, Coll Forestry, CN-712100 Yangling, Peoples Rep China

*Carbohydr Res* 2006 **341** (16) 2677

Physicochemical characterization of cellulose from perennial ryegrass leaves (*Lolium perenne*)

O'Connell DW, Birkinshaw C, O'Dwyer TF\*// \*Univ Limerick, Chem & Environm Sci Dept, Limerick, Rep Ireland

*J Chem Technol Biotechnol* 2006 **81** (11) 1820

A modified cellulose adsorbent for the removal of nickel(II) from aqueous solutions

Shen XL, Xia LM// Zhejiang Univ, Coll Biol & Environm Engr, CN-310014 Hangzhou, Peoples Rep China

*World J Microbiol Biotechnol* 2006 **22** (11) 1109

Lactic acid production from cellulosic waste by immobilized cells of *Lactobacillus delbrueckii*

Suflet DM, Chitanu GC\*, Popa VI// \*Romanian Academy Petru Poni, Institute Macromol Chem, Bioact & Biocompatible Polymers Dept, RO-700487 Iasi, Romania

*React Funct Polym* 2006 **66** (11) 1240

Phosphorylation of polysaccharides: New results on synthesis and characterisation of phosphorylated cellulose

Villareal MLM, Prata AMR, Felipe MGA, Silva JBAE// Chem Engr Coll Lorena, Dept Biotechnol, Rod Itajuba-Lorena km 74.5, Lorena, SP, Brazil

*Enzyme Microb Technol* 2006 **40** (1) 17

Detoxification procedures of eucalyptus hemicellulose hydrolysate for xylitol production by *Candida guilliermondii*

Watanabe A, Morita S, Ozaki Y\*// \*Kwansei Gakuin Univ, Dept Chem, 2-1 Gakuen, Sanda 669 1337, Japan

*Biomacromolecules* 2006 **7** (11) 3164

Study on temperature-dependent changes in hydrogen bonds in cellulose I $\beta$  by infrared spectroscopy with perturbation-correlation moving-window two-dimensional correlation spectroscopy

Watanabe A, Morita S, Kokot S, Matsubara M, Fukai K, Ozaki Y\*// \*Kwansei Gakuin Univ, Sch Sci & Technol, Dept Chem, Res Ctr Near Infrared Spectroscopy, 2-1 Gakuen, Sanda 669 1337, Japan

*J Mol Struct* 2006 **799** (1-3) 102

Drying process of microcrystalline cellulose studied by attenuated total reflection IR spectroscopy with two-dimensional correlation spectroscopy and principal component analysis

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 Reviews; 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.

Yoon DJ, Kim YD\*// \*Chonnam Natl Univ, Fac Appl Chem, 300 Yongbong dong, Kwangju 500 757, South Korea  
*J Colloid Interface Sci* 2006 **303** (2) 573  
 Synthesis and electrorheological behavior of sterically stabilized polypyrrole-silica-methylcellulose nanocomposite suspension

#### 4. Chitin/Chitosan

Arslan H, Hazer B, Yoon SC// Zonguldak Karaelmas Univ, Dept Chem, TR-67100 Zonguldak, Turkey  
*J Appl Polym Sci* 2007 **103** (1) 81

Grafting of poly(3-hydroxyalkanoate) and linoleic acid onto chitosan

Bodnar M, Hartmann JF, Borbely J\*// \*Univ Debrecen, Dept Colloid & Environm Chem, HU-4010 Debrecen, Hungary  
*Biomacromolecules* 2006 **7** (11) 3030

Synthesis and study of cross-linked chitosan-*N*-poly(ethylene glycol) nanoparticles

Cha J, Lee WB, Park CR\*, Cho YW, Ahn CH, Kwon IC// \*Seoul Natl Univ, Sch Mat Sci & Engrn, Enviro-Polymers Design Lab, Hyperstructured Organ Material Res Ctr, Seoul 151 742, South Korea  
*Macromol Res* 2006 **14** (5) 573

Preparation and characterization of cisplatin-incorporated chitosan hydrogels, microparticles, and nanoparticles

Clasen C, Wilhelms T, Kulicke WM// Univ Hamburg, Inst Tech & Macromol Chem, DE-20146 Hamburg, Germany  
*Biomacromolecules* 2006 **7** (11) 3210

Formation and characterization of chitosan membranes

Feng H, Dong CM\*// \*Shanghai Jiao Tong Univ, Sch Chem & Chem Technol, Dept Polymer Sci & Engrn, CN-200240 Shanghai, Peoples Rep China  
*Biomacromolecules* 2006 **7** (11) 3069

Preparation, characterization, and self-assembled properties of biodegradable chitosan-poly(L-lactide) hybrid amphiphiles

Fu JH, Ji J\*, Fan DZ, Shen JC// \*Zhejiang Univ, Dept Polymer Sci & Engrn, Key Lab Macromol Synt & Funct MoE, CN-310027 Hangzhou, Peoples Rep China  
*J Biomed Mater Res Pt A* 2006 **79A** (3) 665

Construction of antibacterial multilayer films containing nanosilver *via* layer-by-layer assembly of heparin and chitosan-silver ions complex

Ikemoto S, Mochizuki M, Yamada M, Takeda A, Uchinuma E, Yamashina S, Nomizu M, Kadoya Y\*// \*Kitasato Univ, Sch Med, Dept Anat, Sagami-hara, Kanagawa 228, Japan  
*J Biomed Mater Res Pt A* 2006 **79A** (3) 716

Laminin peptide-conjugated chitosan membrane: Application for keratinocyte delivery in wounded skin

Kang HS, Park SH, Lee YG, Son TI\*// \*Chung Ang Univ, Dept Biotechnol, Ansong 456 756, Gyeonggi, South Korea  
*J Appl Polym Sci* 2007 **103** (1) 386

Polyelectrolyte complex hydrogel composed of chitosan and poly( $\gamma$ -glutamic acid) for biological application: Preparation, physical properties, and cytocompatibility

Katas H, Alpar HO\*// \*Univ London, Sch Pharm, 29-39 Brunswick Sq, London WC1N 1AX, England  
*J Controlled Release* 2006 **115** (2) 216

Development and characterisation of chitosan nanoparticles for siRNA delivery

Kim SJ, Kim MS, Kim SI, Spinks GM\*, Kim BC, Wallace GG// \*Univ Wollongong, Intelligent Polymer Res Inst, ARC Ctr Excellence Electromaterial Sci, Wollongong, NSW 2522, Australia  
*Chem Mater* 2006 **18** (24) 5805

Self-oscillatory actuation at constant DC voltage with pH-sensitive chitosan/polyaniline hydrogel blend

Kulkarni VH, Kulkarni PV\*, Keshavayya J// \*SETs Coll Pharm, Dharwad, Karnataka, India  
*J Appl Polym Sci* 2007 **103** (1) 211

Glutaraldehyde-crosslinked chitosan beads for controlled release of diclofenac sodium

Liu L, Li FZ, Fang YE, Guo SR// Shanghai Jiao Tong Univ, Sch Pharm, 800 Dongchuan Rd, CN-200240 Shanghai, Peoples Rep China  
*Macromol Biosci* 2006 **6** (10) 855

Regioselective grafting of poly(ethylene glycol) onto chitosan and the properties of the resulting copolymers

Makino A, Ohmae M, Kobayashi S\*// \*Kyoto Univ, Grad Sch Engrn, Dept Chem Mat, Nishikyo ku, Kyoto 615 8510, Japan  
*Macromol Biosci* 2006 **6** (10) 862

Synthesis of fluorinated chitin derivatives *via* enzymatic polymerization

Makino A, Ohmae M, Kobayashi S\*// \*Kyoto Inst Technol, R&D Ctr Biobased Material, Sakyo ku, Kyoto 606 8585, Japan  
*Polym J* 2006 **38** (11) 1182

Chitinase-catalyzed copolymerization to a chitin derivative having glucosamine unit in controlled proportion

Nakamura R, Aoi K\*, Okada M// \*Nagoya Univ, Grad Sch Bioagr Sci, Chikusa ku, Nagoya, Aichi 464 8601, Japan  
*Macromol Rapid Commun* 2006 **27** (20) 1725

Controlled synthesis of a chitosan-based graft copolymer having polysarcosine side chains using the NCA method with a carboxylic acid additive

Ohkawa K, Minato KI, Kumagai G, Hayashi S, Yamamoto H// Shinshu Univ, Fac Text Sci & Technol, Inst High Polymer Res, Tokida 3-15-1, Ueda, Nagano 386 8567, Japan  
*Biomacromolecules* 2006 **7** (11) 3291

Chitosan nanofiber

Reddy KR, Rajgopal K, Maheshwari CU, Kantam ML// Indian Inst Chem Technol, Inorgn & Phys Chem Div, IN-500007 Hyderabad, India  
*New J Chem* 2006 **30** (11) 1549

Chitosan hydrogel: A green and recyclable biopolymer catalyst for aldol and Knoevenagel reactions

Sandri G, Poggi P, Bonferoni MC, Rossi S, Ferrari F, Caramella C\*// \*Univ Pavia, Dept Expt Med, Sect Normal Anat, IT-27100 Pavia, Italy  
*J Pharm Pharmacol* 2006 **58** (10) 1327

Histological evaluation of buccal penetration enhancement properties of chitosan and trimethyl chitosan

Saxena A, Kumar A, Shahi VK\*// \*Cent Salt & Marine Chem Res Inst, Electro Membrane Process Div, IN-364002 Bhavnagar, Gujarat, India  
*J Colloid Interface Sci* 2006 **303** (2) 484

Preparation and characterization of *N*-methylene phosphonic and quaternized chitosan composite membranes for electrolyte separations

Sionkowska A, Kaczmarek H, Wisniewski M, Skopinska J, Lazare S, Tokarev V// Nicholas Copernicus University, Fac Chem, Gagarin 7, PL-87100 Torun, Poland  
*Surface Sci* 2006 **600** (18) 2775

The influence of UV irradiation on the surface of chitosan films

Sonvico F, Cagnani A, Rossi A, Motta S, Di Bari MT, Cavatorta F, Alonso MJ, Deriu A, Colombo P\*// \*Univ Parma, Dipt Farmaceut, Vle GP Usberti 27/A, IT-43100 Parma, Italy  
*Int J Pharm* 2006 **324** (1) 67

Formation of self-organized nanoparticles by lecithin/chitosan ionic interaction

Tiera MJ, Qiu XP, Bechaouch S, Shi Q, Fernandes JC, Winnik FM\*// \*Univ Montreal, Fac Pharm, CP 6128, Succursale Ctr-ville, Montreal, Quebec, Canada H3C 3J7  
*Biomacromolecules* 2006 **7** (11) 3151

Synthesis and characterization of phosphorylcholine-substituted chitosans soluble in physiological pH conditions

Wbowo S, Velazquez G, Savant V, Torres JA\*// \*Oregon State Univ, Dept Food Sci & Technol, Food Proc Engrn Grp, 100 Wiegand Hall, Corvallis, Or 97331, USA  
*Bioresource Technol* 2007 **98** (3) 539

Effect of chitosan type on protein and water recovery efficiency from surimi wash water treated with chitosan-alginate complexes

Zhou HY, Chen XG\*, Liu CS, Meng XH, Liu CG, Yu LJ// \*Ocean Univ Qingdao, Coll Marine Life Sci, 5 Yushan Rd, CN-266003 Qingdao, Peoples Rep China  
*Biochem Eng J* 2006 **31** (3) 228

Release characteristics of three model drugs from chitosan/cellulose acetate multimicrospheres

#### 5. Cyclodextrins

Karginov VA, Nestorovich EM, Yohannes A, Robinson TM, Fahmi NE, Schmidtman F, Hecht SM, Bezrukov SM// Innovative Biologics Inc, 10900 University Blvd, MSN 1A8, Manassas, Va 20110, USA  
*Antimicrob Agents Chemother* 2006 **50** (11) 3740

Search for cyclodextrin-based inhibitors of anthrax toxins: Synthesis, structural features, and relative activities

Lin CH, Kuo CM, Liu YC, Cheng HT, Lin WY, Wu JC, Wang LF, Lin CE\*// \*Natl Taiwan Univ, Dept Chem, Taipei 10671, Taiwan  
*Electrophoresis* 2006 **27** (21) 4345

Enantioselectivity of basic analytes in CZE enantioseparation under reversed-polarity mode using sulfated  $\beta$ -cyclodextrins as chiral selectors: An unusual temperature effect

Taniguchi M, Kawai T// Osaka University, Institute Science & Industrial Research, Nanosci & Nanotechnol Ctr, 8-1 Mihogaoka, Ibaraki, Osaka 567 0047, Japan

*Chem Phys Lett* 2006 **431** (1-3) 127

Effect of  $\alpha$ -cyclodextrin coating on electronic properties of molecular wires

Wenz G, Gruber C, Keller B, Schilli C, Albuzat T, Muller A// Univ Saarland, Gebaude C4-2, DE-66123 Saarbrücken, Germany

*Macromolecules* 2006 **39** (23) 8021

Kinetics of threading  $\alpha$ -cyclodextrin onto cationic and zwitterionic poly(bola-amphiphiles)

Wistuba D, Bogdanski A, Larsen KL, Schurig V// \*Univ Tübingen, Inst Organ Chem, Auf der Morgenstelle 18, DE-72076 Tübingen, Germany

*Electrophoresis* 2006 **27** (21) 4359

$\delta$ -Cyclodextrin as novel chiral probe for enantiomeric separation by electromigration methods

Zeidan RK, Kalovidouris SA, Schluep T, Fazio R, Andresini R, Davis ME// \*California Institute Technol, Div Chem & Chem Engr, Pasadena, Ca 91125, USA

*Bioconjug Chem* 2006 **17** (6) 1624

A solvent-free method for isotopically or radioactively labeling cyclodextrins and cyclodextrin-containing polymers

## 6. Lignin

Jahan MS, Chowdhury DAN, Islam MK, Moeiz SMI// BCSIR Labs, Pulp & Paper Res Div, Dr Quadrat-i-Khuda Rd, BD-1205 Dhaka, Bangladesh

*Bioresource Technol* 2007 **98** (2) 465

Characterization of lignin isolated from some nonwood available in Bangladesh

## 7. Lipopolysaccharides

Silipo A, Molinaro A, Comegna D, Sturiale L, Crescutti P, Garozzo D, Lanzetta R, Parrilli M// Univ Naples Federico II, Dipt Chim Organ & Biochim, Via Cinthia, IT-80126 Naples, Italy

*Eur J Org Chem* 2006 (21) 4874

Full structural characterisation of the lipooligosaccharide of a *Burkholderia pyrrocinia* clinical isolate

## 8. Pectin

Panouille M, Thibault JF, Bonnin E// \*INRA, BIA, BP 71627, FR-44316 Nantes 3, France

*J Agric Food Chem* 2006 **54** (23) 8926

Cellulase and protease preparations can extract pectins from various plant byproducts

## 9. Starch

Chen YX, Liu SY, Wang GY// \*Chinese Acad Sci, Chengdu Inst Organ Chem, CN-610041 Chengdu, Peoples Rep China

*J Colloid Interface Sci* 2006 **303** (2) 380

Kinetics and adsorption behavior of carboxymethyl starch on  $\alpha$ -alumina in aqueous medium

Chen YX, Wang GY// \*Address as above

*Colloid Surface A* 2006 **289** (1-3) 75

Adsorption properties of oxidized carboxymethyl starch and cross-linked carboxymethyl starch for calcium ion

Davey CL, Kiely DE, Manley-Harris M// \*Univ Waikato, Dept Chem, Private Bag 3105, Hamilton, New Zealand

*Carbohydr Res* 2006 **341** (16) 2688

Esterification of select polyols with D-glucaric acid as model reactions for esterification of starch

Ermolovich OA, Makarevich AV// Natl Acad Sci Belarus, Belyi Inst Mechanics Metal-Polymer Syst, Gomel, Belarus

*Russ J Appl Chem Eng Tr* 2006 **79** (9) 1526

Effect of compatibilizer additives on the technological and performance characteristics of biodegradable materials based on starch-filled polyethylene

Ganjyal GM, Hanna MA// \*Univ Nebraska, Ind Agr Prod Ctr, 208 LW Chase Hall, Lincoln, Ne 68583, USA

*Cereal Chem* 2006 **83** (6) 577

Role of blowing agents in expansion of high-amylose starch acetate during extrusion

Kiribuchi-Otobe C, Fujita M, Matsunaka H, Sekine M// Headquarters Natl Agr & Biooriented Res Org, Tsukuba, Ibaraki 305 8518, Japan

*Cereal Chem* 2006 **83** (6) 590

Properties of cross-linked starch from waxy mutant wheat Tanikei A6599-4

Li A, Zhang JP, Wang AQ// \*Chinese Acad Sci, Lanzhou Inst Chem Phys, Ctr Ecol & Green Chem, CN-730000 Lanzhou, Peoples Rep China

*Bioresource Technol* 2007 **98** (2) 327

Utilization of starch and clay for the preparation of superabsorbent composite

Lipatova IM, Losev NV, Yusova AA// Inst Solution Chem, Ivanovo, Russia

*Russ J Appl Chem Eng Tr* 2006 **79** (9) 1532

Mechanical degradation of gelatinized starch upon hydroacoustic treatment

Park SH, Bean SR, Wilson JD, Schober TJ// USDA/ARS, Grain & Mktg & Prod Res Ctr, Manhattan, Ks 66502, USA

*Cereal Chem* 2006 **83** (6) 611

Rapid isolation of sorghum and other cereal starches using sonication

Shi R, Liu QY, Ding T, Han YM, Zhang LQ\*, Chen DF, Tian W// \*Beijing Univ Chem Technol, Key Lab Beijing City Preparation & Processing Novel Polym Materials, CN-100029 Beijing, Peoples Rep China

*J Appl Polym Sci* 2007 **103** (1) 574

Ageing of soft thermoplastic starch with high glycerol content

Singh N, Sodhi NS, Bhambri V, Singh H// Guru Nanak Dev Univ, Dept Food Sci & Technol, IN-143005 Amritsar, India

*J Food Sci Technol Mysore* 2006 **43** (6) 594

Effect of acetic anhydride on physico-chemical, thermal, retrogradation and pasting properties of rice starches differing in crystallinity

Thunwall M, Boldizar A, Rigdahl M\*, Kuthanova V// Chalmers, Dept Material & Mfg Technol Polymer Materials & Composites, SE-41296 Gothenburg, Sweden

*Int J Polym Anal Charact* 2006 **11** (6) 419

On the stress-strain behavior of thermoplastic starch melts

Xia H, Thompson DB// \*Penn State Univ, Dept Food Sci, University Park, Pa 16802, USA

*Cereal Chem* 2006 **83** (6) 668

Debranching of  $\beta$ -dextrins to explore branching patterns of amylopectins from three maize genotypes

Zhang GY, Ao ZH, Hamaker BR// \*Purdue Univ, Whistler Ctr Carbohydrate Res, Food Sci Bldg, West Lafayette, In 47907, USA

*Biomacromolecules* 2006 **7** (11) 3252

Slow digestion property of native cereal starches

Zhang GY, Venkatachalam M, Hamaker BR// \*Address as above

*Biomacromolecules* 2006 **7** (11) 3259

Structural basis for the slow digestion property of native cereal starches

## 10. Starch-degrading enzymes

Bibi I, Bhatti HN, Asgher M, Waqar MA// Univ Agr Faisalabad, Dept Chem, PK-38040 Faisalabad, Pakistan

*J Chem Soc Pakistan* 2006 **28** (4) 401

Efficient utilization of tea wastes by *Fusarium solani* to produce glucoamylase under solid state fermentation

Saxena RK, Dutt K, Agarwal L, Nayyar P// Univ Delhi, Dept Microbiol, Benito Juarez Rd, IN-110021 New Delhi, India

*Bioresource Technol* 2007 **98** (2) 260

A highly thermostable and alkaline amylase from a *Bacillus* sp PN5

## 11. Polysaccharides - Microbial

Ahmad S, Tester RF\*, Corbett A, Karkalas J// \*Glasgow Caledonian Univ, Dept Biol & Biomed Sci, Glasgow G4 0BA, Scotland

*Carbohydr Res* 2006 **341** (16) 2694

Dextran and 5-aminosalicylic acid (5-ASA) conjugates: Synthesis, characterisation and enzymic hydrolysis

Bajaj IB, Saudagar PS, Singhal RS\*, Pandey A// \*Univ Bombay, Inst Chem Technol, Food & Fermentat Technol Dept, IN-400019 Mumbai, India

*J Biosci Bioeng* 2006 **102** (3) 150

Statistical approach to optimization of fermentative production of gellan gum from *Sphingomonas paucimobilis* ATCC 31461

Banik RM, Santhiagu A, Upadhyay SN// Banaras Hindu Univ, Sch Biochem Engrn, Inst Technol, IN-221005 Varanasi, India

*Bioresource Technol* 2007 **98** (4) 792

Optimization of nutrients for gellan gum production by *Sphingomonas paucimobilis* ATCC-31461 in molasses based medium using response surface methodology

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*Int J Pharm* 2006 **325** (1-2) 155
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- Casadei MA, Cerreto F, Cesa S, Giannuzzo M, Feeney M, Marianecchi C, Paolicelli P// Univ Roma La Sapienza, Dipt Chim & Tecnol Sostanze Biol Attive, IT-00185 Rome, Italy  
*Int J Pharm* 2006 **325** (1-2) 140
- Solid lipid nanoparticles incorporated in dextran hydrogels: A new drug delivery system of oral formulations
- Chen Q, Wang AY, Li TT, Li CF, Jiao QC// \*Nanjing Univ, Sch Life Sci, State Key Lab Pharmaceut Biotechnol, CN-210093 Nanjing, Peoples Rep China  
*Chin J Polym Sci* 2006 **24** (6) 637
- Sulfation of pachyman with chlorosulfonic acid using the improved Wolf from method
- Cui FJ, Tao WY\*, Xu ZH, Guo WJ, Xu HY, Ao ZH, Jin J, Wei YQ// \*Sthn Yangtze Univ, MoE Key Lab Ind Biotechnol, CN-214036 Wuxi, Peoples Rep China  
*Bioresource Technol* 2007 **98** (2) 395
- Structural analysis of anti-tumor heteropolysaccharide GFPS1b from the cultured mycelia of *Grifola frondosa* GF9801
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*J Chromatogr A* 2006 **1134** (1-2) 236
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- Marudova-Zsivanovits M, Jilov N, Gencheva E// Paisij Hilendarski Univ Plovdiv, Rheol Lab, BG-4000 Plovdiv, Bulgaria  
*J Appl Polym Sci* 2007 **103** (1) 160
- Rheological investigation of xanthan gum-chromium gelation and its relation to enhanced oil recovery
- Miyazaki Y, Onuki Y, Yakou S, Takayama K// Tokyo Womens Medical University Med Ctr E, Dept Pharm, Nishiogu 2-1-10, Arakawa ku, Tokyo 116 8567, Japan  
*Int J Pharm* 2006 **324** (2) 144
- Effect of temperature-increase rate on drug release characteristics of dextran microspheres prepared by emulsion solvent evaporation process
- Numata M, Tamesue S, Fujisawa T, Haraguchi S, Hasegawa T, Bae AH, Li C, Sakurai K, Shinkai S// Kyushu Univ, Grad Sch Engn, Dept Chem & Biochem, Fukuoka 819 0395, Japan  
*Org Lett* 2006 **8** (24) 5533
- $\beta$ -1,3-Glucan polysaccharide (schizophyllan) acting as a one-dimensional host for creating supramolecular dye assemblies
- Survase SA, Saudagar PS, Singhal RS// \*Univ Mumbai, Inst Chem Technol, Food Engn & Biotechnol Dept, IN-400019 Mumbai, India  
*Bioresource Technol* 2007 **98** (2) 410
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- Vlugt-Wensink KDF, Jiang XL, Schotman G, Kruijtz G, Vredenberg A, Chung JT, Zhang ZB, Versluis C, Ramos D, Verrijck R, Jiskoot W, Crommelin DJ, Hennink WE// Univ Utrecht, Utrecht Inst Pharmaceut Sci, Dept Pharmaceut, POB 80082, NL-3508 TB Utrecht, The Netherlands  
*Biomacromolecules* 2006 **7** (11) 2983
- In vitro* degradation behavior of microspheres based on cross-linked dextran
- Zou X, Sun M\*, Guo X// \*SW Univ, Sch Life Sci, 2 Tian Sheng Rd, CN-400715 Chongqing, Peoples Rep China  
*World J Microbiol Biotechnol* 2006 **22** (11) 1129
- Quantitative response of cell growth and polysaccharide biosynthesis by the medicinal mushroom *Phellinus linteus* to NaCl in the medium
- Dror Y, Cohen Y\*, Yerushalmi-Rozen R// \*Technion - Israel Inst Technol, Dept Chem Engn, IL-32000 Haifa, Israel  
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*Biomacromolecules* 2006 **7** (11) 3098
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- Lee JH, Shim JS, Lee JS, Kim JK, Yang IS, Chung MS\*, Kim KH// \*Duksung Womens Univ, Dept Food Sci & Nutr, Seoul 132 714, South Korea  
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