

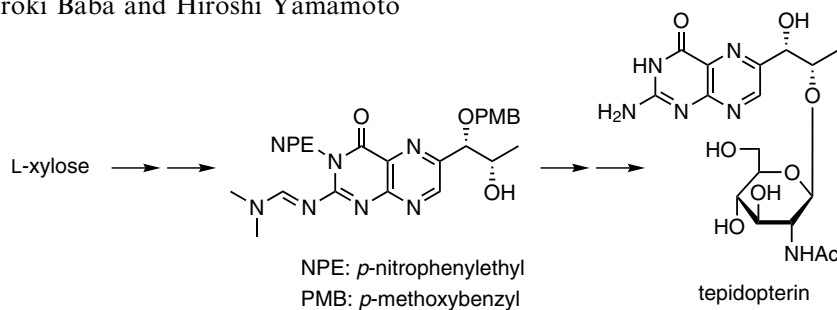
Contents

RAPID COMMUNICATION

First synthesis of tepidopterin [2'-*O*-(2-acetamido-2-deoxy- β -D-glucopyranosyl)-L-threo-biopterin]

pp 2159–2162

Tadashi Hanaya,* Hiroki Baba and Hiroshi Yamamoto

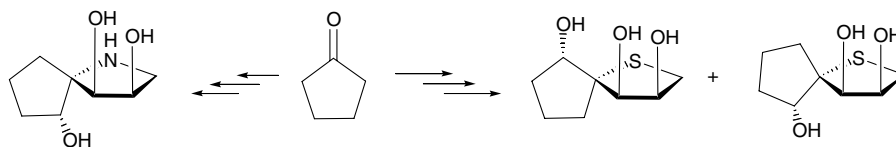


FULL PAPERS

Synthesis of aza- and thia-spiroheterocycles and attempted synthesis of spiro sulfonium compounds related to salacinol

pp 2163–2172

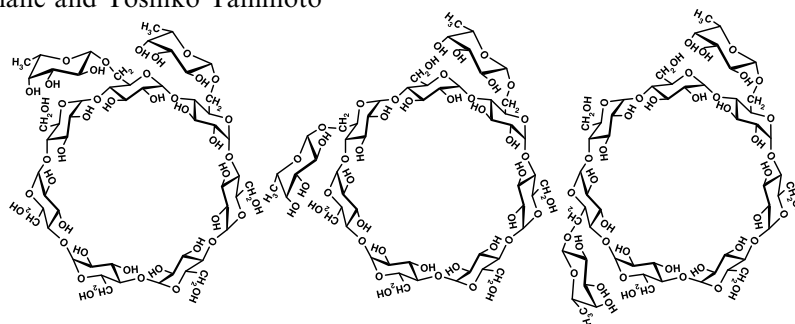
Wang Chen and B. Mario Pinto*



Preparation and characterization of 6^I,6^{II}-di-*O*-(L-fucopyranosyl)- β -cyclodextrin ($n = \text{II–IV}$) and investigation of their functions

pp 2173–2181

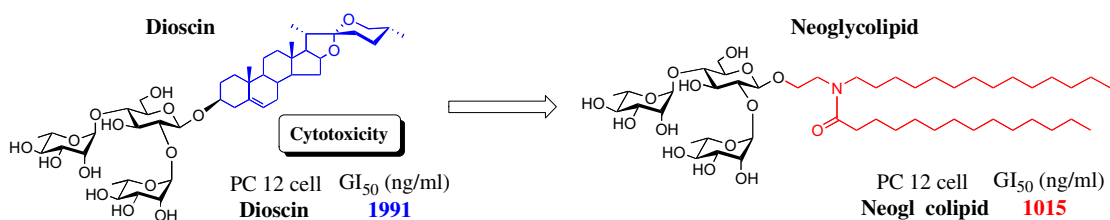
Yuki Nishi, Naoe Yamane and Toshiko Tanimoto*



Synthesis of neosaponins and neoglycolipids containing a chacotriosyl moiety

pp 2182–2191

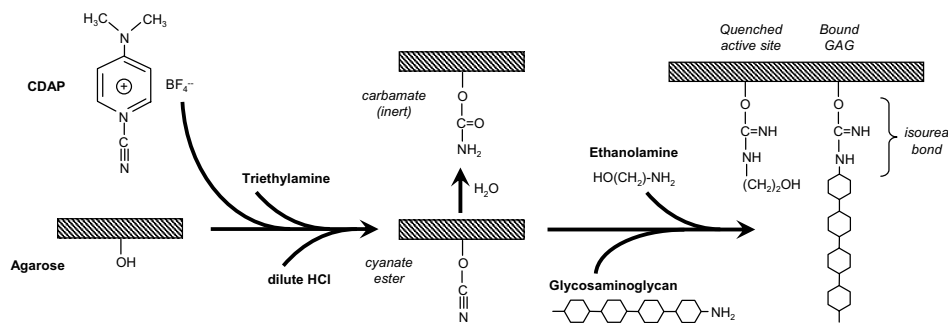
Hiroyuki Miyashita, Tsuyoshi Ikeda and Toshihiro Nohara*



Binding of glycosaminoglycans to cyano-activated agarose membranes: kinetic and diffusional effects on yield and homogeneity

pp 2192–2201

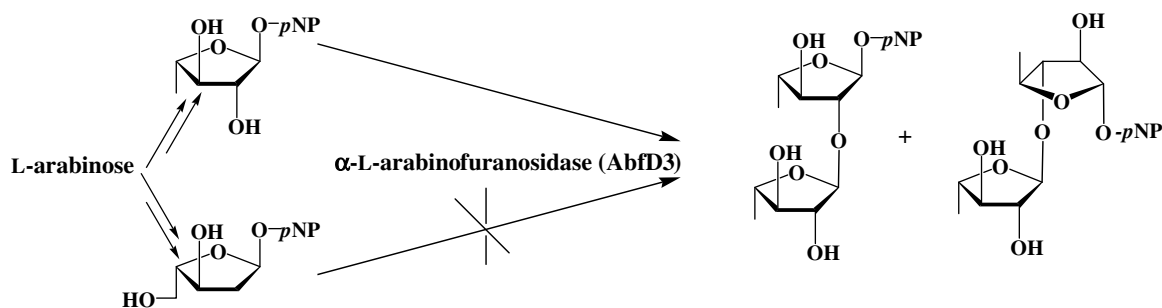
Kristin J. Mattern and William M. Deen*



Investigation of the specificity of an α -L-arabinofuranosidase using C-2 and C-5 modified α -L-arabinofuranosides

pp 2202–2211

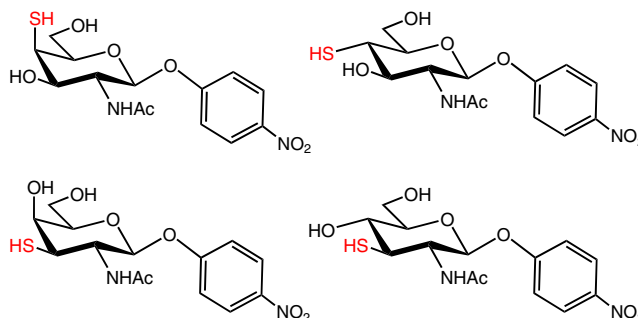
Gérald Lopez, Caroline Nugier-Chauvin,* Caroline Rémond and Michael O'Donohue



Syntheses of the 3- and 4-thio analogues of 4-nitrophenyl 2-acetamido-2-deoxy- β -D-gluco- and galactopyranoside

pp 2212–2222

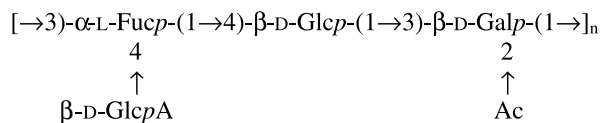
Hong-Ming Chen and Stephen G. Withers*



The structure of the exocellular polysaccharide produced by *Rhodococcus* sp. RHA1

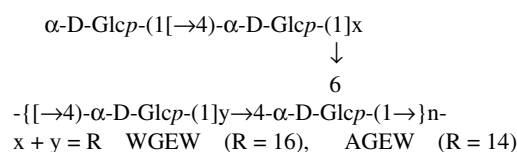
pp 2223–2229

Malcolm B. Perry,* Leann L. MacLean, Marianna A. Patrauchan and Evgeny Vinogradov

**Structure elucidation and sulfated derivatives preparation of two α -D-glucans from *Gastrodia elata* Bl. and their anti-dengue virus bioactivities**

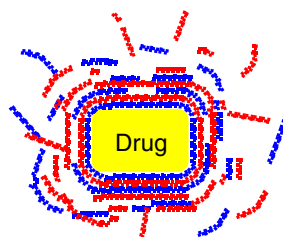
pp 2230–2236

Hong Qiu, Wei Tang, Xiankun Tong, Kan Ding* and Jianping Zuo*

**Enzymatic desorption of layer-by-layer assembled multilayer films and effects on the release of encapsulated indomethacin microcrystals**

pp 2237–2243

Chaoyang Wang,* Shiqu Ye, Lin Dai, Xinxing Liu and Zhen Tong*

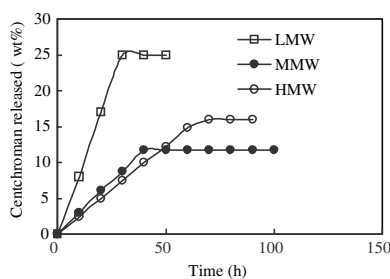


Indomethacin was directly encapsulated with Chitosan/alginate multilayer films by layer-by-layer self-assembly and the drug release from the microcapsules was obviously accelerated due to desorption of chitosan after pepsin erosion.

Glutaraldehyde cross-linked chitosan microspheres for controlled release of centchroman

pp 2244–2252

K. C. Gupta* and Fawzi Habeeb Jabrail

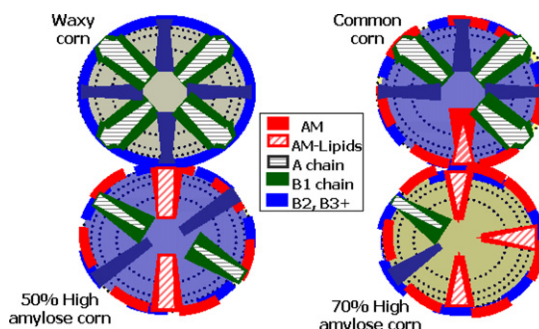


Internal structure and physicochemical properties of corn starches as revealed by chemical surface gelatinization

pp 2253–2263

Daris Kuakpetoon and Ya-Jane Wang*

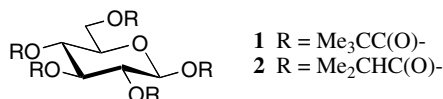
Distribution of amylose and amylopectin in starch granule.



The crystal structures of 1,2,3,4,6-penta-*O*-trimethylacetyl- and 1,2,3,4,6-penta-*O*-dimethylacetyl- β -D-glucopyranose

pp 2264–2269

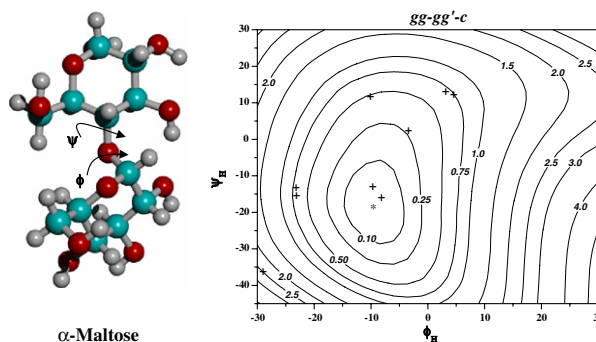
Alan H. Haines* and David L. Hughes*



DFT studies of the disaccharide, α -maltose: relaxed isopotential maps

pp 2270–2285

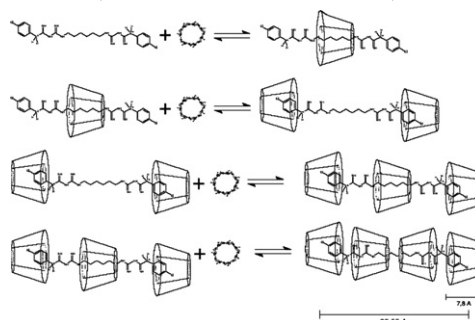
Udo Schnupf, J. L. Willett, Wayne B. Bosma and Frank A. Momany*



Supramolecular self-assembly of β -cyclodextrin: an effective carrier of the antimicrobial agent chlorhexidine

pp 2286–2296

Ângelo M. L. Denadai, Karina I. Teixeira, Marcelo M. Santoro, Adriano M. C. Pimenta, Maria E. Cortés and Rubén D. Sinisterra*

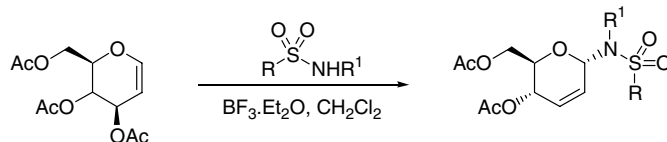


NOTES

Ferrier sulfonamidoglycosylation of D-glycals

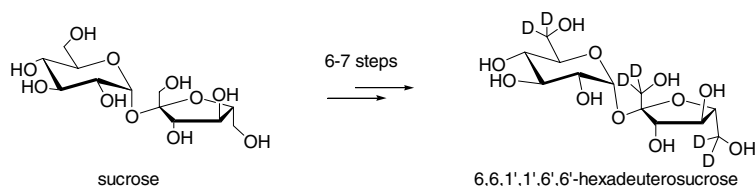
pp 2297–2302

Pedro A. Colinas* and Rodolfo D. Bravo

**Preparation of 6,6,1',1',6',6'-hexadeutero sucrose**

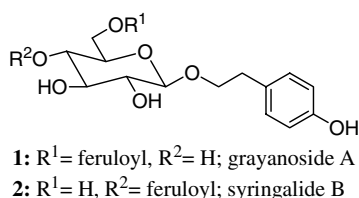
pp 2303–2308

Marie-Hélène Gouy, Mathieu Danel, Maud Gayral, Alain Bouchu and Yves Queneau*

**Total synthesis of phenylpropanoid glycosides, grayanoside A and syringalide B, through a common intermediate**

pp 2309–2315

Saibal Kumar Das,* K. Anantha Reddy and K. Mukkanti

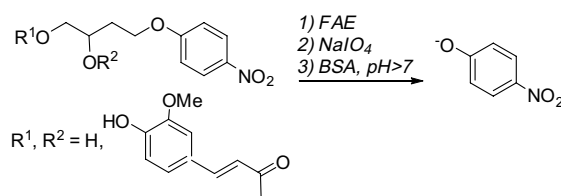


Two phenylpropanoid glycosides namely, grayanoside A (**1**) and syringalide B (**2**), were synthesized through a common intermediate, using benzyl as temporary protecting group following a shorter route.

Chromogenic substrates for feruloyl esterases

pp 2316–2321

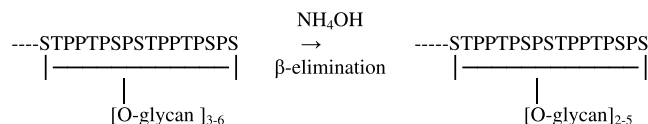
Laurence Marmuse, Michèle Asther, David Navarro, Laurence Lesage-Meessen, Marcel Asther, Sébastien Fort and Hugues Driguez*



Resistance to deglycosylation by ammonia of IgA1 O-glycopeptides: implications for the β -elimination of O-glycans linked to serine and threonine

pp 2322–2325

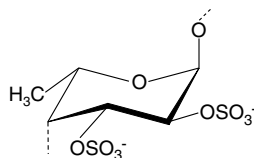
Edward Tarelli



A sulfated fucan from the brown alga *Laminaria cichorioides* has mainly heparin cofactor II-dependent anticoagulant activity

pp 2326–2330

Seon-Joo Yoon, Yu-Ryang Pyun, Jae-Kwan Hwang and Paulo A. S. Mourão*

Preponderant unit of a sulfated fucan from the brown alga *Laminaria cichorioides*.

*Corresponding author

Supplementary data available via ScienceDirect

COVER

The image shows the ball-and-stick representation of a potent *n*-butyl thiazoline inhibitor of *Q*-GlcNAcase, bound in the active centre of the enzyme. The work is the result of collaboration between the groups of Professors David Vocadlo (Simon Fraser University, British Columbia, Canada) and Gideon Davies (University of York, UK). The image, generated with PYMOL (DeLano Scientific LLC, <http://pymol.sourceforge.net/>), shows the observed electron density as a blue “wire-cage” inside the active centre pocket represented by the smooth surface.

Professor Davies was presented with the Roy L Whistler Award of the International Carbohydrate Organization at the XXIIIrd International Carbohydrate Symposium in Whistler in 2006.

© 2007 G. Davies. Published by Elsevier Ltd.

Available online at www.sciencedirect.com

Indexed/Abstracted in: Chem. Abstr.: Curr. Contents: Phys., Chem. & Earth Sci. Life Sci. Current Awareness in Bio. Sci. (CABS). Science Citation Index. Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database which is available on STN® International. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



ELSEVIER

ISSN 0008-6215