

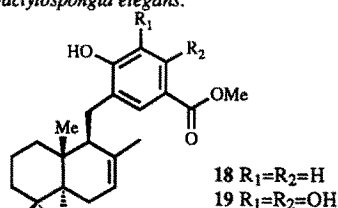
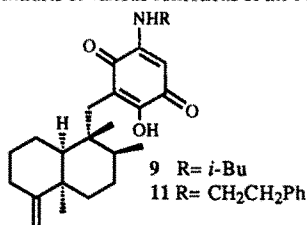
GRAPHICAL ABSTRACTS

Tetrahedron, 1992, 48, 6667

THE STRUCTURES AND STEREOCHEMISTRY OF CYTOTOXIC SESQUITERPENE QUINONES FROM *DACTYLOSPONGIA ELEGANS*.

Jaime Rodríguez, Emilio Quiñoá and Ricardo Rigüera, Departamento de Química Orgánica, Facultad de Química, Universidad de Santiago de Compostela, Spain.; Barbara M. Peters, Leif Abrell and Phillip Crews*, Department of Chemistry and Biochemistry and Institute of Marine Sciences, University of California, Santa Cruz, CA 95064, USA

Four new sesquiterpene-quinones (-hydroquinones) (9, 11, 18, 19) together with thirteen known compounds have been isolated from the cytotoxic methanolic extracts of various collections of the Pacific sponge *Dactylospongia elegans*.



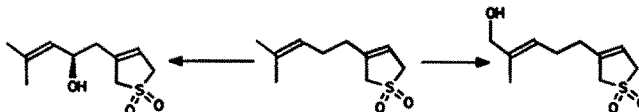
Tetrahedron, 1992, 48, 6681

MICROBIAL HYDROXYLATION OF ACTIVATED ACYCLIC MONOTERPENE HYDROCARBONS

Wolf-Rainer Abraham* and Hans-Adolf Arfmann

GBF-Gesellschaft für Biotechnologische Forschung mbH, Mascheroder Weg 1, W-3300 Braunschweig, FRG

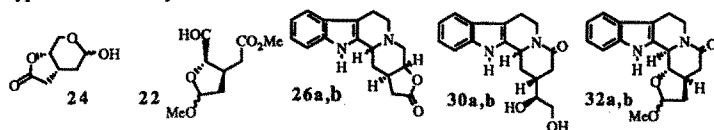
Biotransformation of myrcene sulfone led to hydroxylation products in good yields, e. g. 8*E*- and 5*R*-hydroxy-myrcene sulfone. Similar results were obtained with ocimene sulfone.



Tetrahedron, 1992, 48, 6689

ALCALOIDES INDOLIQUES: NOUVELLES APPROCHES DE SYNTHÈSE VIA LES HYDRATES DE CARBONE.

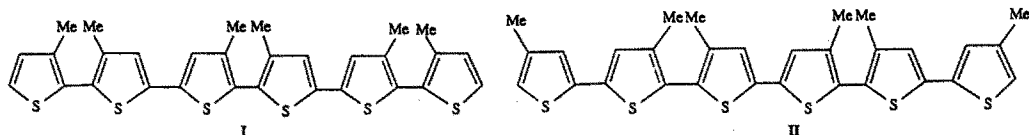
Q. KHUONG-HUU*, J. NEMLIN, J. KERVAGORET. Institut de Chimie des Substances Naturelles, CNRS 91198, Gif/Yvette, France
A. PANCRAZI* Laboratoire de Synthèse Organique associé au CNRS, Ecole Polytechnique, 91128 Palaiseau, France
Pyranose 24 was used for the synthetic approach of 15 α -H and 15 β -H indole derivatives such as 26a,b and 30a,b; the furanoside 22 gave a pure 3 α -H, 15 α -H indoloquinolizidinone 32a,b in a Pictet-Spengler condensation with tryptamine via an acyliminium intermediate.



Synthesis, ^{13}C NMR, λ_{max} and MMP2 calculations of two 'tailor-made' α -conjugated hexamethylsexithiophenes

G. Barbarella^a, A. Bongini^b, M. Zambianchi^a; a) Consiglio Nazionale Ricerche, Ozzano Emilia, Italy; b) Universita', Bologna, Italy.

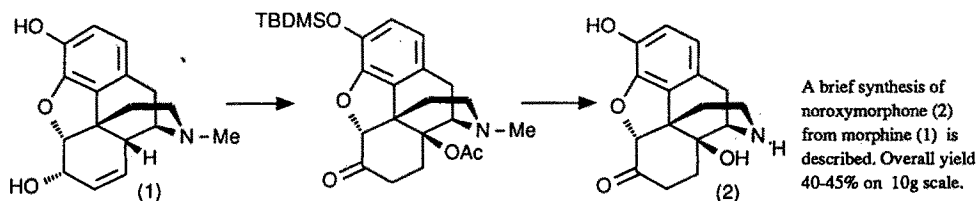
The conformational properties of I and II have been investigated with the aid of ^{13}C NMR spectra and MMP2 calculations. The molecular skeletons are not planar and large blue shifts of the λ_{max} are observed.



AN IMPROVED SYNTHESIS OF NOROXYMORPHONE

Aleyamma Ninan and Malcolm Sainsbury*

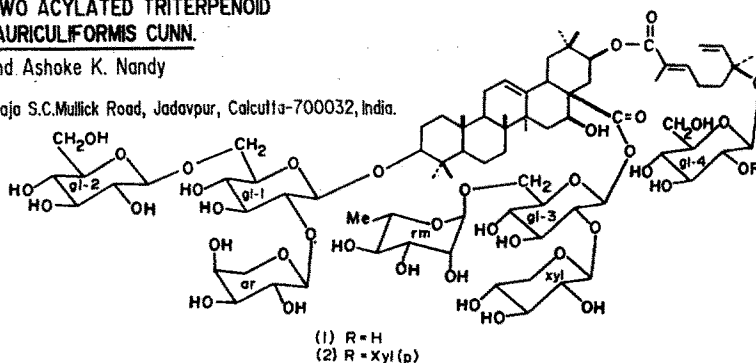
School of Chemistry, University of Bath, Claverton Down, Bath BA2 7AY, U.K.



STRUCTURE ELUCIDATION OF TWO ACYLATED TRITERPENOID BISGLYCOSIDES FROM ACACIA AURICULIFORMIS CUNN.

Shashi B. Mahato*, Bikas C. Pal and Ashoke K. Nandy

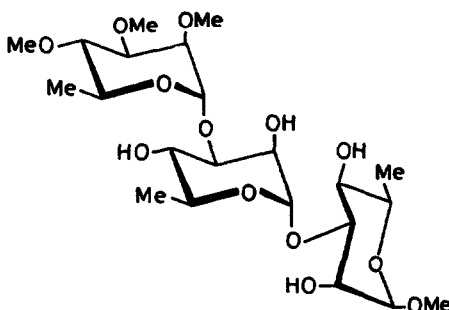
Indian Institute of Chemical Biology, 4 Raja S.C. Mullick Road, Jadavpur, Calcutta-700032, India.



Synthesis of Methyl 3-O-[3-O-(2,3,4-tri-O-Methyl- α -L-rhamnopyranosyl)- α -L-rhamnopyranosyl]- α -L-rhamnopyranoside : The Outer Trisaccharide Unit of a Unique *Mycobacterium xenopi* Glycopeptidolipid

Mukund K Gurjar* and Anupama S Mainkar

Indian Institute of Chemical Technology
Hyderabad 500 007, India

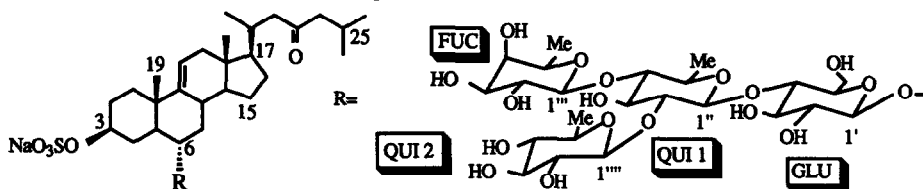


SANTIAGOSIDE, THE FIRST ASTEROSAPONIN FROM AN ANTARCTIC STARFISH (*NEOSMILASTER GEORGIANUS*).

M. Jesús Vázquez¹, Emilio Quiñó¹, Ricardo Riguera^{1*}, Aurelio San Martín² and José Dárias³.

¹Departamento de Química Orgánica, Facultad de Química, Universidad de Santiago de Compostela, 15706 Santiago de Compostela, Spain. ²Departamento de Química, Facultad de Ciencias, Universidad de Chile, Santiago, Chile. ³C.S.I.C., La Laguna, Tenerife, Spain.

Santiagoside, the first asterosaponin possessing a tetrasaccharide sugar chain and a 1,4-disubstituted glucose unit, has been isolated from the Antarctic starfish *Neosmilaster georgianus*.



Photoreactions of 2-(N-Alkylaryl amino)succinimides and Related Compounds

Syed A. Ashraf, John Hill, Ahmed M'Hamedi, and Hafiza Zerizer

Department of Pure and Applied Chemistry, University of Salford, Salford, M5 4WT, U.K.

Irradiation of 2-(N-methylanilino)succinimides 1 caused homolysis of the C(2)-X bond to give radical derived products, e.g. 2 and 3. 2-(N-Methylanilinomethyl)-N-phenylsuccinimide gave only the product 4 of type II photo-cyclisation.

