

GRAPHICAL ABSTRACTS

Bufadienolides from *Drimia robusta* and *Urginea epigea* (Hyacinthaceae)

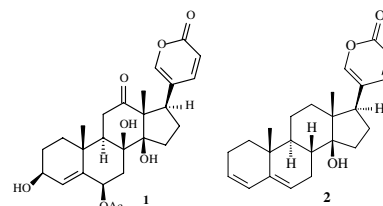
Neil A. Koorbanally^a, Chantal Koorbanally^a, Avinash Harilal^a,
Dulcie A. Mulholland^a, Neil R. Crouch^{a,b}

^a Natural Products Research Group, School of Pure and Applied Chemistry, University of KwaZulu-Natal, Durban 4041, South Africa

^b Ethnobotany Unit, National Botanical Institute, P.O. Box 52099, Berea Road 4007, Durban, South Africa

Two bufadienolides, 6 β -acetoxy-3 β ,8 β ,14 β -trihydroxy-12-oxobufa-4,20,22-trienolide (**1**) and 14 β -hydroxybufa-3,5,20,22-tetraenolide (**2**) were isolated from *Drimia robusta* and *Urginea epigea*, respectively.

Phytochemistry, 2004, **65**, 3069



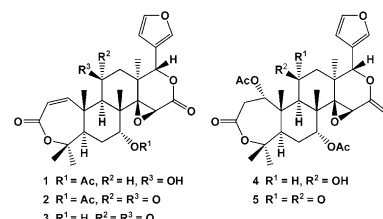
Limonoids from *Cedrela sinensis*

Kumiko Mitsui, Masato Maejima, Haruhiko Fukaya, Yukio Hitotsuyanagi,
Koichi Takeya

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi,
Hachioji, Tokyo 192-0392, Japan

Five limonoids, 11 β -hydroxy-7 α -obacunyl acetate (**1**), 11-oxo-7 α -obacunyl acetate (**2**), 11-oxo-7 α -obacunol (**3**), 11 β -hydroxycneorin G (**4**), and 11-oxocneorin G (**5**), were isolated from the leaves of *Cedrela sinensis* (Meliaceae).

Phytochemistry, 2004, **65**, 3075

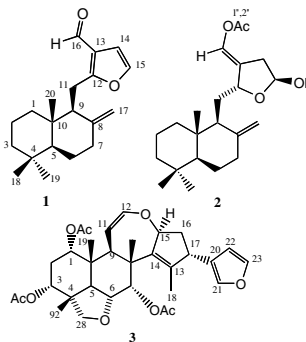


Two labdane diterpenoids and a *seco*-tetranortriterpenoid from *Turreanthus africanus*

Pierre Tane, Mac Thomas Akam, Apollinaire Tsopmo, Chi P. Ndi,
Olov Sterner

Seeds of *Turreanthus africanus* afforded two labdane (**1**, **2**) diterpenoids and a limonoid (**3**). Their structures were elucidated by extensive NMR spectroscopy and mass spectrometry.

Phytochemistry, 2004, **65**, 3083



Saponins and acylated saponins from *Dizygotheca kerchoveana*

F.R. Melek^a, Toshio Miyase^b, S.M. Abdel-Khalik^c, I.I. Mahmoud^c,
S.A. Mina^c

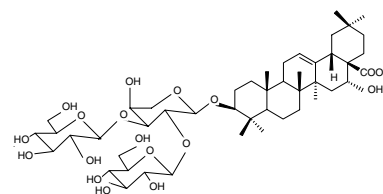
^a Chemistry of Natural Products Department, National Research Centre, Dokki, 12622 Cairo, Egypt

^b School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka 422 – 8526, Japan

^c Pharmacognosy Department, Faculty of Pharmacy, Helwan University, Cairo, Egypt

Nine saponins and two acylated saponins were isolated from the leaves and the stem of branches of *Dizygotheca kerchoveana*. Their structures were established by chemical and spectroscopic means.

Phytochemistry, 2004, **65**, 3089

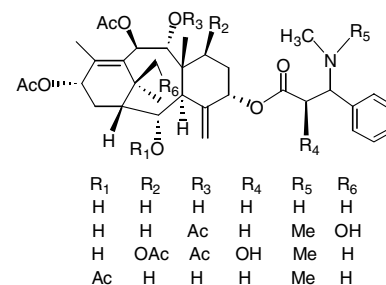


Taxanes with C-5-amino-side chains from the needles of *Taxus canadensis*

Qing-wen Shi, Xiuhong Ji, Alain Lesimple, Françoise Sauriol, Lolita O. Zamir

Five taxanes with an amino-side chain on C-5 were identified for the first time in the needles of the Canadian yew, *Taxus canadensis*. Four of the compounds shown are taxanes. Their structures were established by spectroscopic methods.

Phytochemistry, 2004, **65**, 3097

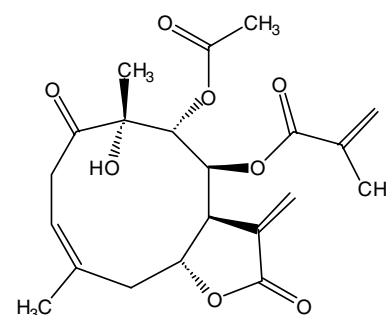


Germacranolides from *Calea urticifolia*

Masashi Yamada, Nobuyasu Matsuura, Hiroto Suzuki, Chihiro Kurosaka, Naoko Hasegawa, Makoto Ubukata, Toshiyuki Tanaka, Munekazu Inuma

Four germacranolides, named calealactones A, B, and C and 2,3-epoxycalactone A were isolated from the leaves of *Calea urticifolia*.

Phytochemistry, 2004, **65**, 3107



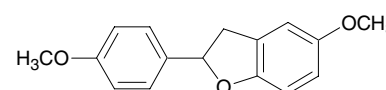
Corsifurans A–C, 2-arylbenzofurans of presumed stilbenoid origin from *Corsinia coriandrina* (Hepaticae)

Stephan H. von Reuß, Wilfried A. König

Institut für Organische Chemie, Universität Hamburg, Martin-Luther-King-Platz 6, D-20146 Hamburg, Germany

Chemical investigation of the diethyl ether extract from *Corsinia coriandrina* resulted in the identification and synthesis of three 4',5-*O*-disubstituted 2-arylbenzofurans as natural products together with (*E*)- and (*Z*)-3,4'-dimethoxystilbene.

Phytochemistry, 2004, **65**, 3113



Three isocoumarins and a benzofuran from the cultured lichen mycobionts of *Pyrenula* sp.

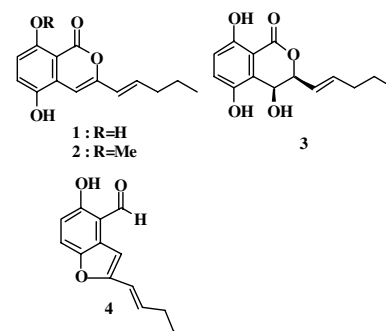
Yukiko Takenaka^a, Takao Tanahashi^a, Naotaka Nagakura^a, Atsuko Itoh^a, Nobuo Hamada^b

^a *Kobe Pharmaceutical University, 4-19-1, Motoyamakita-machi, Higashinada-ku, Kobe 658-8558, Japan*

^b *Osaka City Institute of Public Health and Environmental Sciences, 8-34, Tojo-cho, Tennouji-ku, Osaka 543-0026, Japan*

The spore-derived mycobionts of the lichen *Pyrenula* sp. were cultivated on a malt-yeast extract medium supplemented with 10% sucrose. The investigation of the metabolites resulted in isolation of four compounds, three isocoumarins **1–3** and a benzofuran **4**.

Phytochemistry, 2004, **65**, 3119



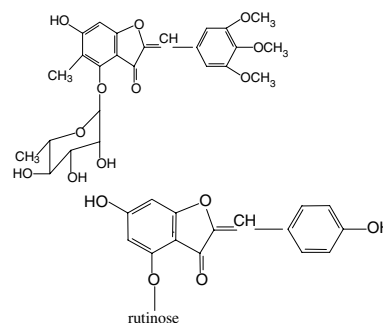
Two aurone glycosides from heartwood of *Pterocarpus santalinus*

Achyut Narayan Kesari, Rajesh Kumar Gupta, Geeta Watal

Department of Chemistry, University of Allahabad, Allahabad 211002, India

Two aurone glycosides viz 6 hydroxy 5 methyl 3',4',5' trimethoxy aurone 4-*O*-rhamnopyranoside and 6,4' dihydroxy aurone 4-*O*-rutinoside have been isolated from the ethanolic extract of the wood of *Pterocarpus santalinus*.

Phytochemistry, 2004, **65**, 3125

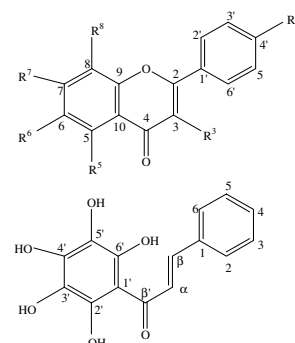


Flavonoids from shoots, roots and roots exudates of *Brassica alba*

María A. Ponce, José M. Scervino, Rosa Erra-Balsells, Juan A. Ocampo, Alicia M. Godeas

3,5,6,7,8-Pentahydroxy-4'-methoxy flavone in shoots, 2',3',4',5',6'-pentahydroxy chalcone and 3,5,6,7,8-pentahydroxy flavone in roots and exudates were obtained. Apigenin was found in the shoots and roots, but not in the root exudates.

Phytochemistry, 2004, **65**, 3131



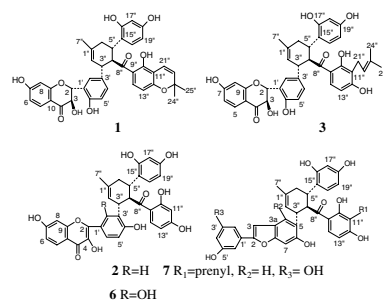
Guangsangons F–J, anti-oxidant and anti-inflammatory Diels–Alder type adducts, from *Morus macroura* Miq.

Sheng-Jun Dai, Zhi-Bo Ma, Yan Wu, Ruo-Yun Chen, De-Quan Yu

Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100050, China

Five Diels–Alder type adducts, named guangsangos F (1), G (2), H (3), I (6), and J (7), along with two known compounds, mulberrofuran J and kuwanon J, were isolated from *Morus macroura* (Moraceae).

Phytochemistry, 2004, **65**, 3135

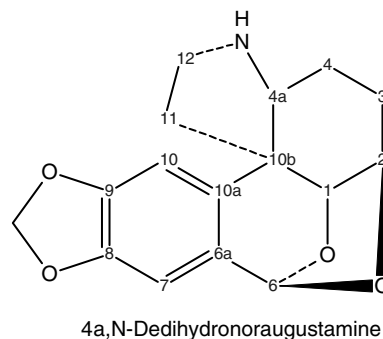


Augustamine type alkaloids from *Crinum kirkii*

Alex K. Machocho, Jaume Bastida, Carlos Codina, Francesc Viladomat, Reto Brun, Sumesh C. Chhabra

Two augustamine type of Amaryllidaceae alkaloids were isolated from the bulbs of *Crinum kirkii*. Their structures and those of the other reported alkaloids were established by physical and spectral properties.

Phytochemistry, 2004, **65**, 3143



In vitro anti-herpetic activity of sulfated polysaccharide fractions from *Caulerpa racemosa*

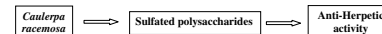
Partha Ghosh ^a, Utpal Adhikari ^a, Prodyot K. Ghosal ^a, Carlos A. Pujol ^b, Maria J. Carlucci ^b, Elsa B. Damonte ^b, Bimalendu Ray ^a

^a Department of Chemistry, University of Burdwan, Burdwan 713 104, WB, India

^b Laboratorio de Virología, Departamento de Química Biológica, Facultad de Ciencias Exactas y Naturales UBA, Ciudad Universitaria-Pabellón 2 Piso 4, 1428 Buenos Aires, Argentina

Sulfated heteropolysaccharide fractions isolated from the marine green algae *Caulerpa racemosa* were partially characterised by IR, GC, GC–MS and SEC. The hot water extracted polysaccharide fractions show anti-herpetic activity.

Phytochemistry, 2004, **65**, 3151



C₃₁–C₃₄ methylated squalenes from a Bolivian strain of *Botryococcus braunii*

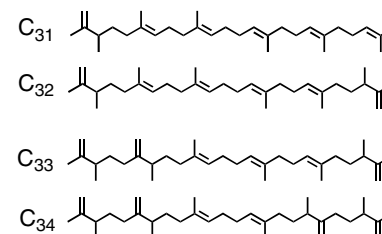
Etienne Achitouv ^a, Pierre Metzger ^a, Marie-Noëlle Rager ^b, Claude Largeau ^a

^a Laboratoire de Chimie Bioorganique et Organique Physique, Université Pierre et Marie Curie, Ecole Nationale Supérieure de Chimie de Paris, UMR CNRS 7573, ENSCP, 11 Rue P. et M. Curie, 75231 Paris cedex 05, France

^b Laboratoire de RMN, Ecole Nationale Supérieure de Chimie de Paris, 11 Rue P. et M. Curie, 75231 Paris cedex 05, France

Four methylated squalenes were isolated from the internal lipids of the freshwater green microalga *Botryococcus braunii*. Together they accounted for 4.5% of dry wt.

Phytochemistry, 2004, **65**, 3159



Quassinoid glucosides from seeds of *Brucea amarissima*

Ik Hwi Kim, Yukio Hitotsuyanagi, Koichi Takeya

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

Four quassinoid glucosides, javanicosides I, J, K and L, were isolated from the seeds of this plant. They showed moderate cytotoxic activities against P-388 murine leukemia cells.

Phytochemistry, 2004, **65**, 3167

