

GRAPHICAL ABSTRACTS

Halogenated diterpenoids from the red alga

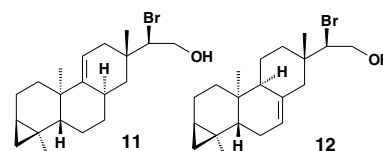
Laurencia nipponica

Ekaterina G. Lyakhova, Anatoly I. Kalinovsky, Sophia A. Kolesnikova, Victor E. Vaskovsky, Valentin A. Stonik

Pacific Institute of Bioorganic Chemistry, Far East Branch of the Russian Academy of Sciences, Prospect 100 let Vladivostoku, 159, 690022 Vladivostok, Russia

Two halogenated diterpenes, 15-bromoparguer-9(11)-ene-16-ol (**11**) and 15-bromoparguer-7-ene-16-ol (**12**), have been isolated from the red alga *Laurencia nipponica*. Their structures were elucidated by analysis of 1D and 2D NMR, mass spectra and molecular calculations.

Phytochemistry, 2004, **65**, 2527



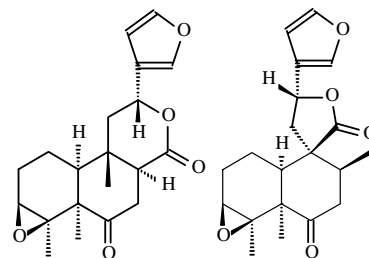
Clerodane-type diterpenoids from *Nannoglottis ravida*

Hai-Lin Qin, Zhi-Hong Li

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

Clerodane-type diterpenoids, ravidin A and B, were isolated from the roots of *Nannoglottis ravida*, and their chemotaxonomical significance is discussed.

Phytochemistry, 2004, **65**, 2533

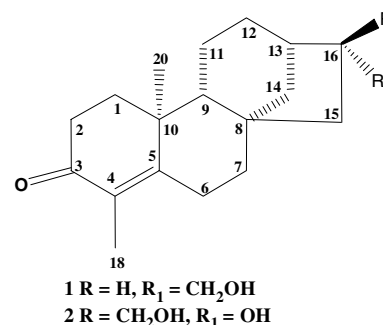


Nor-*ent*-kaurane diterpenes and hydroxylactones from *Antennaria geyeri* and *Anaphalis margaritacea*

Ahmed A. Ahmed, Taha A. Hussein, Ahmed A. Mahmoud, Mohamed A. Farag, Paul W. Paré, Magorzata Wojcińska, Joe Karchesy, Tom J. Mabry

Antennaria geyeri afforded nor-*ent*-kaurane diterpenes with antibacterial activity. *Anaphalis margaritacea* afforded two hydroxy lactones. Structures were elucidated on the basis of 1D and 2D NMR analysis, IR and CIMS.

Phytochemistry, 2004, **65**, 2539



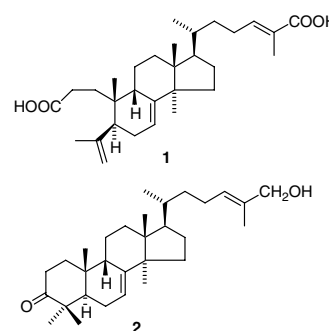
Two lanostane triterpenoids from *Abies koreana*

Hyun Jung Kim, Eun Hwa Choi, Ik-Soo Lee

College of Pharmacy and Research Institute of Drug Development, Chonnam National University, Gwangju 500-757, Republic of Korea

Lanostane-type triterpenoids were isolated from the root bark of *Abies koreana*, and their cytotoxicity properties were assessed. Their structures were elucidated based on spectroscopic analyses.

Phytochemistry, 2004, **65**, 2545



Dendrocyin: an isocucurbitacin with novel cyclic side chain from *Dendrosicyos socotrana*

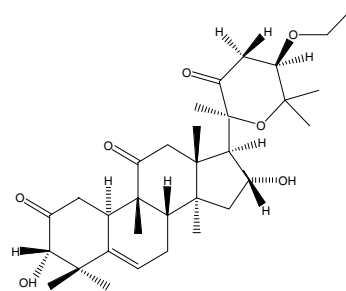
Hosny A. Hussein ^a, Osama B. Abdel-Halim ^a, El-Sayed M. Marwan ^a,
Ali A. El-Gamal ^a, Ramazy Mosana ^b

^a Pharmacognosy Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

^b Pharmacognosy Department, Faculty of Pharmacy, Sanaa University, Sanaa, Yemen

From the chloroform extract of *Dendrosicyos socotrana* Balf.f. stems, A new isocucurbitacin (Dendrocyin) with unusual cyclization in the side chain; 24 β -ethoxy-20-25-epoxy-3 α ,16 α -dihydroxy-9-methyl-19-norlanost-5(6)ene-2,11,22-trione has been isolated alongside isocucurbitacin R.

Phytochemistry, 2004, **65**, 2551



Terpenoids from *Microliabum polymnioides*

Oscar J. Díaz ^a, Roberto Gil ^b, Lázaro J. Novara ^a, Virginia E. Sosa ^c,
Juana R. de la Fuente ^a

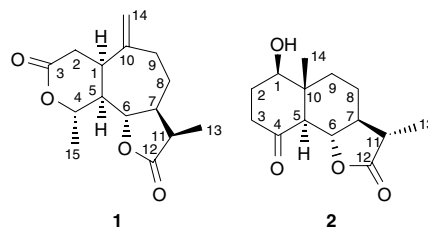
^a Consejo de Investigacin, Universidad Nacional de Salta, 4400 Salta, Argentina

^b Department of Chemistry, Carnegie Mellon University, 4400 Fifth Ave, Pittsburgh, PA 15213, USA

^c Facultad de Ciencias Químicas, Instituto Multidisciplinario de Biología Vegetal, Universidad Nacional de Córdoba, IMBIV (CONICET-UNC), 5000 Córdoba, Argentina

11 α H,13-dihydrozaluzanin E (**1**), and a noreudesmanolide: 1 β -hydroxy-4-oxo-11 β H-4-noreudesman-6,12-olide (**2**) were isolated and characterized from *Microliabum polymnioides*, together with related known sesquiterpenolides and the results used for chemotaxonomical classification.

Phytochemistry, 2004, **65**, 2557

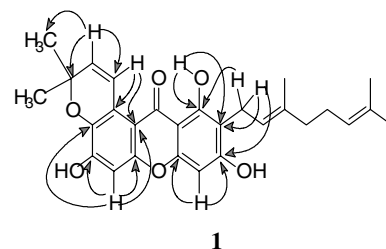


Allanxanthone B, a polyisoprenylated xanthone from the stem bark of *Allanblackia monticola* Staner L.C

Anatole G.B. Azebaze, Michèle Meyer, Bernard Bodo,
Augustin E. Nkengfack

A polyisoprenylated xanthone, named allanxanthone B, was isolated from the stem bark of *Allanblackia monticola*, together with five known compounds. The antimicrobial activity of some of these compounds are also reported.

Phytochemistry, 2004, **65**, 2561



Alkaloidal constituents of *Mucuna pruriens* seeds

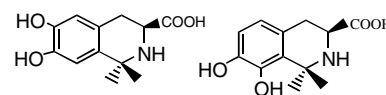
Laxminarain Misra ^a, Hildebert Wagner ^b

^a Phytochemistry Division, Central Institute of Medicinal and Aromatic Plants, P.O. – CIMAP, Lucknow 226 015, India

^b Department of Pharmacy, Center for Pharma Research, Butenandtstr. 5-7, University of Munich, 81377 Munich, Germany

Four tetrahydroisoquinoline alkaloids have been isolated from *Mucuna pruriens* seeds for the first time, out of which two are new. Their structures have been established by spectroscopic methods.

Phytochemistry, 2004, **65**, 2565

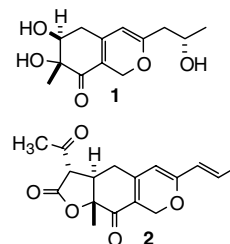


Azaphilone pigments from a yellow mutant of the fungus *Monascus kaoliang*

Suchada Jongrungruangchok, Prasat Kittakoo, Busaba Yongsmith, Rapepol Bavovada, Somboon Tanasupawat, Nattapat Lartpornmatulee, Yodhathai Thebtaranonth

Azaphilone pigments, monascusones A (**1**) and B (**2**), were isolated from the extract of the fungus *Monascus kaoliang* grown on rice.

Phytochemistry, 2004, **65**, 2569



Diterpenoid glucosides from *Salvia greggii*

Nobuo Kawahara ^a, Toru Tamura ^a, Mayumi Inoue ^a, Tomoo Hosoe ^b, Ken-ichi Kawai ^b, Setsuko Sekita ^a, Motoyoshi Satake ^c, Yukihiro Goda ^a

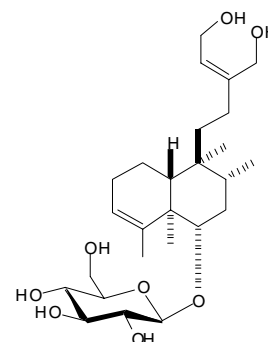
^a National Institute of Health Sciences (NIHS), Kamiyoga 1-18-1, Setagaya-ku, Tokyo 158-8501, Japan

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^c Institute of Environmental Science for Human Life, Ochanomizu University, Otsuka 2-1-1 Bunkyo-ku, Tokyo 112-8610, Japan

Four diterpenoid glucosides, designated as salvigresides A–D (**1**–**4**), were isolated from the aerial parts of *Salvia greggii*, with their structures confirmed by spectroscopic and chemical analyses.

Phytochemistry, 2004, **65**, 2577



Bioactivity guided isolation of antifungal compounds from the liverwort *Bazzania trilobata* (L.) S.F. Gray

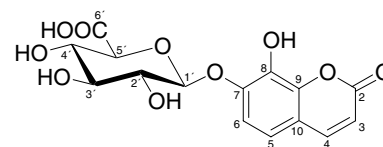
Jochen M. Scher ^a, John-Bryan Speakman ^b, Josef Zapp ^a, Hans Becker ^a

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^b BASF Agrarzentrums Limburgerhof, Pflanzenschutz, Forschung Fungizide, D-67114 Limburgerhof, Germany

Bioautography on thin-layer chromatograms was used to isolate six antifungal sesquiterpenes and three bisbibenzyls from *Bazzania trilobata*. Their antifungal activities were compared by microtiter plate tests. Furthermore gymnomin-8(12)-en-4-one and the new coumarin 7,8-dihydroxy-coumarin-7-*O*- β -D-glucuronide were isolated.

Phytochemistry, 2004, **65**, 2583



Phloroglucinol derivatives from *Mallotus pallidus*

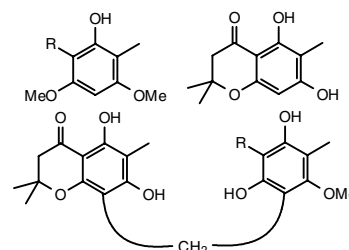
Butsarakham Supudompol ^a, Kittisak Likhitwitayawuid ^a, Peter J. Houghton ^b

^a Department of Pharmacognosy, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok 10330, Thailand

^b Kings College London, Franklin-Wilkins Building, 150 Stamford St, London SE1 9NN, England

From the leaves of *Mallotus pallidus* were isolated five phloroglucinol derivatives, namely pallidusol, dehydropallidusol, pallidol, mallopallidol and homomallopallidol. Their structures were determined by means of spectroscopic methods of analysis.

Phytochemistry, 2004, **65**, 2589



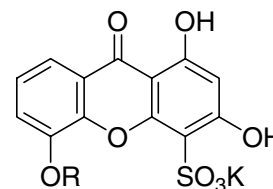
Sulfonated xanthenes from *Hypericum sampsonii*

Di Hong ^{a,b}, Feng Yin ^b, Li-Hong Hu ^b, Ping Lu ^a

^a Department of Chemistry, Zhejiang University, Hangzhou 310027, PR China

^b National Center for Drug Screening, Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, 189 Guo-Shou-Jing Road, Shanghai 201203, PR China

Two xanthenes **1** and **2**, together with nine known compounds were obtained from the whole plant of *Hypericum sampsonii*. This is the first report of sulfonated xanthonoids. Compounds **1** and **2** exhibited significant cytotoxicity to P388 cancer cell line.



1. R=CH₃

2. R=β-D-pyranoglucosyl

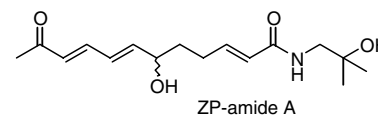
Phytochemistry, 2004, **65**, 2595

Aliphatic acid amides of the fruits of *Zanthoxylum piperitum*

Tsutomu Hatano, Kazutoshi Inada, Tomo-omi Ogawa, Hideyuki Ito, Takashi Yoshida

Faculty of Pharmaceutical Sciences, Okayama University, Tsushima, Okayama 700-8530, Japan

Six aliphatic acid amides, ZP-amides A–F, were isolated from the pericarp of *Zanthoxylum piperitum* fruits.



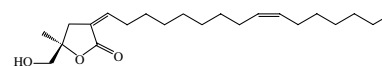
ZP-amide A

Phytochemistry, 2004, **65**, 2599

The tornabeatins, four tetrahydro-2-furanone derivatives from the lichenized ascomycete *Tornabea scutellifera* (With.) J.R. Laundon

Tomáš Řezanka, Marina Temina, Lumr Hanuš, Valery M. Dembitsky

Tornabeatins A, B, C and D, have been isolated as new natural products from the lichen *Tornabea scutellifera*, and their structures were elucidated using spectral data.



Phytochemistry, 2004, **65**, 2605

Triterpenoidal glycosides from *Justicia betonica*

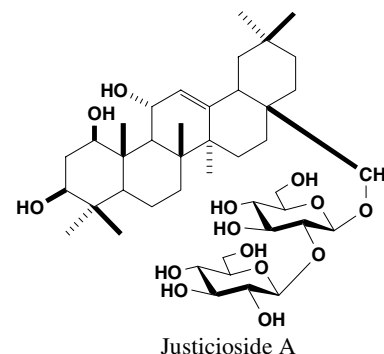
Tripetch Kanchanapoom ^a, Pawadee Noiarsa ^a, Somsak Ruchirawat ^b, Ryoji Kasai ^c, Hideaki Otsuka ^c

^a Department of Pharmaceutical Botany and Pharmacognosy, Faculty of Pharmaceutical Sciences, Khon Kaen University, Khon Kaen 40002, Thailand

^b Chulabhorn Research Institute, Vipavadee Rangsit Highway, Bangkok 10210, Thailand

^c Department of Pharmacognosy, Division of Biomedical Sciences, Hiroshima University, Hiroshima 734-8551, Japan

Four triterpenoidal glycosides, justiciosides A–D, were isolated from the aerial portion of *Justicia betonica*.



Justiciocide A

Phytochemistry, 2004, **65**, 2613

Glycosides from *Phlomis lunariifolia*

İhsan Çalış, Hasan Kırmızıbekmez

Department of Pharmacognosy, Faculty of Pharmacy, Hacettepe University, TR-06100 Ankara, Turkey

A new aliphatic alcohol glycoside, lunaroside (**1**), a new phenylethanoid glycoside, lunariifolioside (**2**) and a new flavon glycoside, luteolin 7-*O*-[4-*O*-acetyl- α -rhamnopyranosyl-(1 \rightarrow 2)]- β -glucuronopyranoside (**3**) were isolated from *Phlomis lunariifolia*. The structures were established by 1D and 2D NMR techniques.

Phytochemistry, 2004, **65**, 2619

