

Phytochemistry Vol. 67, No. 5, 2006

Reports on Structure Elucidation

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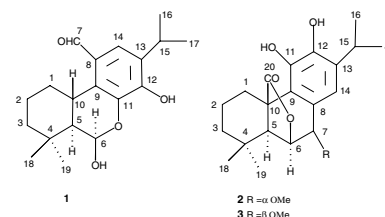
TERPENOIDS

Salvidorol, a nor-abietane diterpene with a rare carbon skeleton and two abietane diterpene derivatives from *Salvia dorrii*

pp 424–428

Ahmed A. Ahmed<sup>\*</sup>, Abou El-Hamd H. Mohamed, Joe Karchesy, Yoshinori Asakawa

Salvidorol (**1**), a irregular abietane-type diterpene and two epimeric diterpenes were isolated from the aerial parts of *Salvia dorrii*. The structures were established by high-field NMR techniques (<sup>1</sup>H–<sup>1</sup>H COSY, DEPT, HMQC, HMBC, NOESY, HRMS) and X-ray analysis.

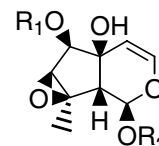


Iridoid glucosides from *Kickxia abhaica* D.A. Sutton from Scrophulariaceae

pp 429–432

Adnan J. Al-Rehaily<sup>\*</sup>, Maged S. Abdel-Kader, Mohammad S. Ahmad, Jaber S. Mossa

From *Kickxia abhaica* two iridoid glucosides (**1–2**), were isolated. Their structures were established by spectral analysis, including 2D NMR data.



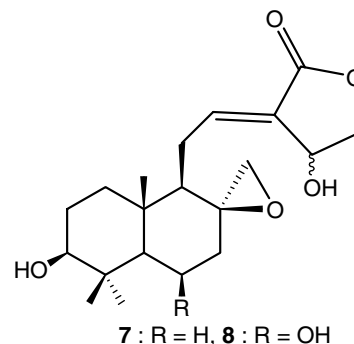
1- R<sub>1</sub> = OCOCH<sub>3</sub>; R<sub>2</sub> = Glc  
2- R<sub>1</sub> = H; R<sub>2</sub> = Glc-6'-OHbenzoyl

Five labdane diterpenoids from the seeds of *Aframomum zambesiaceum*

pp 433–438

Marguerite Kenmogne, Elise Prost, Dominique Harakat, Marie-José Jacquier, Michel Frédérick, Lucas B. Sondengam, Monique Zèches, Pierre Waffo-Tégou<sup>\*</sup>

Five labdane diterpenoids were isolated from the seeds of *Aframomum zambesiaceum* along with the known labdanes, aframodial, aulacocarpin A and B, galanal A, and galanolactone and a linear sesquiterpene, nerolidol. Their structures were elucidated by spectroscopic analysis. Antiplasmodial activity against *Plasmodium falciparum* for some of the isolated compounds was evaluated.

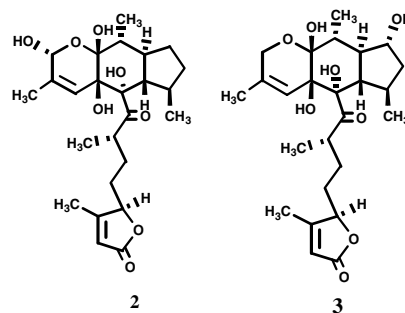


### Hydroxylation of the sesterterpene leucosceptrine by the fungus *Rhizopus stolonifer*

pp 439–443

Muhammad Iqbal Choudhary \*, Rosa Ranjit, Atta-ur-Rahman, Krishna Prasad Devkota, Syed Ghulam Musharraf, Tirtha Maiya Shrestha

The microbial transformation of leucosceptrine (**1**) by *Rhizopus stolonifer*, afforded two leucosesterpenes, 1 $\alpha$ -hydroxyleucosceptrine (**2**), and 8 $\alpha$ -hydroxyleucosceptrine (**3**).

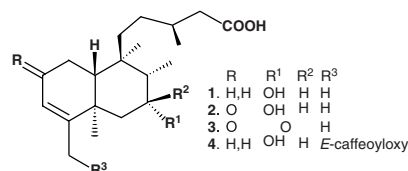


### Clerodane and labdane diterpenoids from *Nuxia sphaerocephala*

pp 444–451

Lengo Mambu \*, Philippe Grellier, Loic Florent, Roger Joyeau, David Ramanitrahassimbola, Philippe Rasoanaivo, François Frappier

Four clerodane and three labdane diterpenoids (**1–7**) were isolated from the leaves of *Nuxia sphaerocephala*. Their structures have been elucidated on the basis of NMR and MS data. The antiplasmodial activity of the compounds has been evaluated.

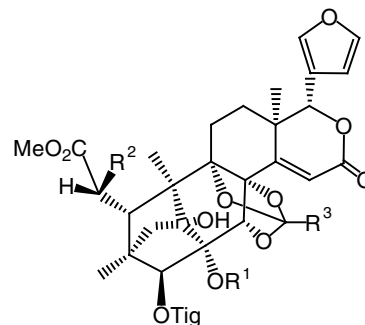


### Rings B,D-seco limonoids from the leaves of *Swietenia mahogani*

pp 452–458

Samir A.M. Abdelgaleil, Matsumi Doe, Yoshiki Morimoto, Munehiro Nakatani \*

Three types of rings B,D-seco limonoids were isolated and structures of nine compounds were elucidated by spectroscopic methods.



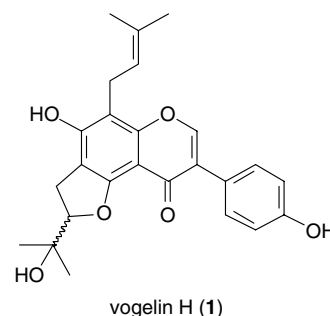
## PHENOLICS

### Flavones and isoflavones from the west African Fabaceae *Erythrina vogelii*

pp 459–463

Alain F. Kamdem Waffo, Philip H. Coombes, Dulcie A. Mulholland \*, Augustin E. Nkengfack, Zacharias T. Fomum

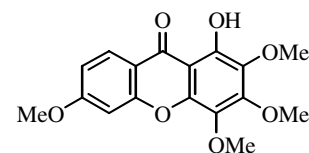
The stem bark of *Erythrina vogelii* collected in Nigeria has yielded two isoflavones vogelins H (**1**) and I (**2**), a flavone, vogelin J (**3**), and eight known flavonoids.



**Phenolic compounds from the flowers of *Garcinia dulcis*****pp 464–469**

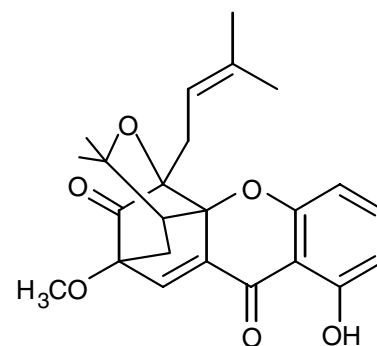
S. Deachathai, W. Mahabusarakam <sup>\*</sup>, S. Phongpaichit, W.C. Taylor, Y.-J. Zhang, C.-R. Yang

Dulcixanthones C–F and dulcinone together with 22 known compounds were isolated from the flowers of *Garcinia dulcis*. The radical scavenging and antibacterial activities were investigated.

**Xanthone derivatives from *Cratoxylum cochinchinense* roots****pp 470–474**

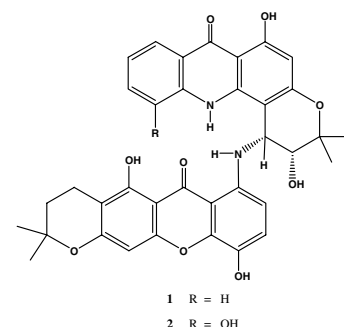
W. Mahabusarakam <sup>\*</sup>, W. Nuangnaowarat, W.C. Taylor

Xanthenes and caged-prenylated xanthenes, named cochinchinones A–D, a synthetic known caged-prenylated xathone and seven known xanthenes were isolated from the roots of *Cratoxylum cochinchinense*. Some of the compounds exhibited effective antioxidative properties.

**ALKALOIDS****Alkaloids from *Oriciopsis glaberrima* Engl. (Rutaceae)****pp 475–480**

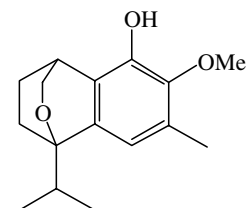
Jean Duplex Wansi <sup>\*</sup>, Jean Wandji, Alain François Kamdem Waffo, Happi Emmanuel Ngeufa, Jean Claude Ndom, Serge Fotso, Rajendra Prasad Maskey, Dieudonné Njamen, Tancee Zacharias Fomum, Harmut Laatsch

Alkaloid derivatives, oriciacridone A (**1**) and B (**2**), were isolated from the stems bark of *Oriciopsis glaberrima* Engl., and their structures determined spectroscopically. The extract exhibited in vitro significant antimicrobial activity against a range of micro-organisms.

**GENERAL CHEMISTRY****Terpenoids and phenol derivatives from *Malva silvestris*****pp 481–485**

Francesca Cutillo, Brigida D'Abrosca, Marina DellaGreca <sup>\*</sup>, Antonio Fiorentino, Armando Zarrelli

A sesquiterpene and a tetrahydroxylated acyclic diterpene were isolated from *Malva silvestris*. The structures of the compounds were determined by spectroscopic NMR and MS analyses. Their effects on germination and growth of *Lactuca sativa* L. have been studied in the concentration range  $10^{-4}$ – $10^{-7}$  M.

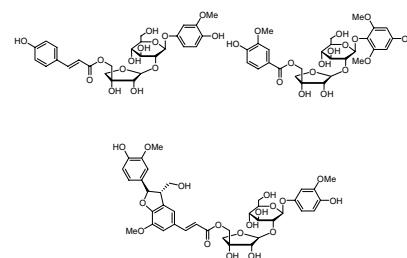


### Hydroquinone diglycoside acyl esters from the stems of *Glycosmis pentaphylla*

pp 486–491

Junsong Wang, Yingtong Di, Xianwen Yang, Shunlin Li, Yuehu Wang, Xiaojiang Hao\*

From the stems of *Glycosmis pentaphylla*, three hydroquinone diglycoside acyl esters and one known one were isolated.

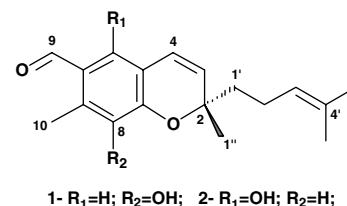


### Unusual chromenes from *Peperomia blanda*

pp 492–496

Leosvaldo S.M. Velozo, Marcelo J.P. Ferreira, Maria Isabel S. Santos, Davyson L. Moreira, Vicente P. Emerenciano\*, Maria Auxiliadora C. Kaplan

Two chromenes were isolated and identified from the methanol extract of the aerial parts of *Peperomia blanda* in addition to stigmasterol, sitosterol and campesterol. Their structures were established as 2*S*-(4-methyl-3-pentenyl)-6-formyl-8-hydroxy-2,7-dimethyl-2*H*-chromene and 2*S*-(4-methyl-3-pentenyl)-5-hydroxy-6-formyl-2,7-dimethyl-2*H*-chromene through spectroscopic methods.

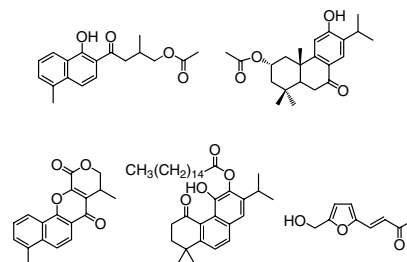


### Cytotoxic and aromatic constituents from *Salvia miltiorrhiza*

pp 497–503

Ming-Jaw Don, Chien-Chang Shen, Wan-Jr Syu, Yi-Huei Ding, Chang-Ming Sun\*

Five naturally occurring products along with 13 known constituents were isolated from the root of *Salvia miltiorrhiza*. Selected compounds were evaluated for their biological activity.

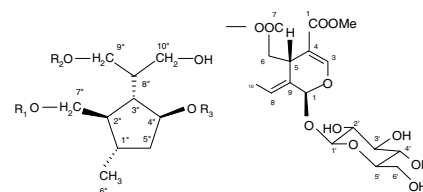


### Oligomeric secoiridoid glucosides from *Jasminum abyssinicum*

pp 504–510

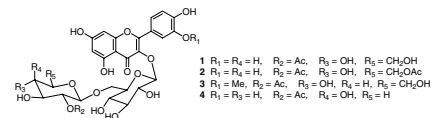
Francesca Romana Gallo\*, Giovanna Palazzino, Elena Federici, Raffaella Iurilli, Franco Delle Monache, Kusamba Chifundera, Corrado Galeffi

From the root bark of *Jasminum abyssinicum*, three oligomeric secoiridoid glucosides, craigosides A–C, were isolated and their structures established.

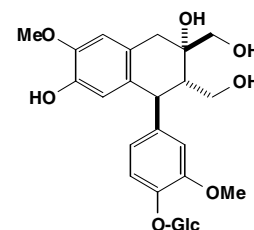


**Acetylated flavonol diglucosides from *Meconopsis quintuplinervia*****pp 511–515**

Xiao-Ya Shang, Ying-Hong Wang, Chong Li, Cheng-Zhong Zhang, Yong-Chun Yang, Jian-Gong Shi\*

Four acetylated flavonol diglucosides **1–4**, together with five known flavonol glycosides, have been isolated from *Meconopsis quintuplinervia*.**Lignan, phenolic and iridoid glycosides from *Stereospermum cylindricum*****pp 516–520**

Tripetch Kanchanapoom\*, Pawadee Noiarsa, Hideaki Otsuka, Somsak Ruchirawat

Lignan, phenolic and iridoid glycosides were isolated from the leaves and branches of *Stereospermum cylindricum*

(+)–cycloolivil 4'-O-β-D-glucopyranoside

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