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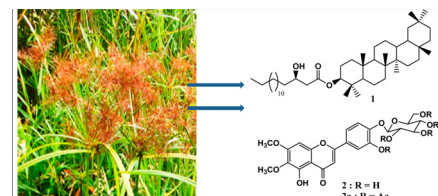
INVITED MINI REVIEWS

New triterpene and new flavone glucoside from *Rhynchospora corymbosa* (Cyperaceae) with their antimicrobial, tyrosinase and butyrylcholinesterase inhibitory activities

pp 121–128

Annie Laure Ngankeu Pagning, Jean-de-Dieu Tamokou, Mehreen Lateef, Léon Azefack Tapondjou, Jules-Roger Kuate, David Ngnokam and Muhammad Shaiq Ali

● New triterpene oleanane 3-(3'*R*-hydroxy)-hexadecanoate and new glucoside flavone derivative were isolated from *Rhynchospora corymbosa*. ● Their structure were characterized by extensive 2D-NMR studies. ● Nine known compounds were also isolated from this plant. ● Antimicrobial, tyrosinase and butyrylcholinesterase inhibitory activities were evaluated.



Dianthus erinaceus var. *erinaceus*: Extraction, isolation, characterization and antimicrobial activity investigation of novel saponins

pp 219–224

Kiyemut Mutlu, Nazli Boke Sarikahya, Ihsan Yasa and Suheyly Kirmizigul

● Two new saponins, dianosides K–L, were isolated from *Dianthus erinaceus* var. *erinaceus*. ● All isolated compounds were identified by 1D-, 2D-NMR and HR-Mass techniques. ● Antimicrobial potential of dianosides K–L was tested by MIC method.

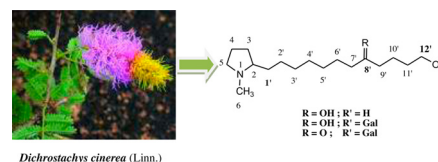


Pyrrolidine alkaloids and their glycosylated derivatives from the root bark of *Dichrostachys cinerea* (L) Wight & Arn. (Fabaceae)

pp 268–276

Joël M.E. Dade, Genéviève Irie-N'Guessan, Gustav Komlaga, Martial Say, Timothée A. Okpekon, Jean B. Boti, Brou Jérôme Kablan and El Hadji Sawaliho Bamba

● Three new dichrostamines (**1–3**) were isolated from the root bark of *Dichrostachys cinerea*. ● The structures of these compounds were determined on the basis of their 1D and 2D NMR, HRESIMS and mass spectrometry including mass tandem spectrometry. ● Compounds 2 and 3 are a pair of isomers. ● This is the first report of pyrrolidine derivatives with a 12 carbon side chain from Fabaceae plant family.



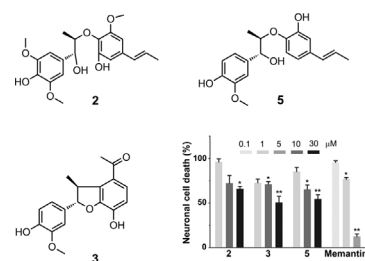
LETTERS

New lignans with neuroprotective activity from *Adelostemma gracillimum*

pp 1–7

Jun Zhang, Shengjun Guo, Kim W. Chan, Estella P.S. Tong, Guangmiao Fu, Quanzhang Mu, Fanny C.F. Ip and Nancy Y. Ip

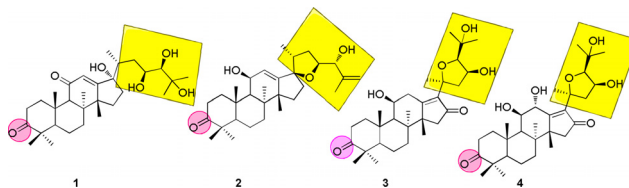
● Extract of *Adelostemma gracillimum* is neuroprotective against excitotoxicity. ● Four novel and two known lignans, and five known acetophenones were isolated. ● Two novel and one known lignans are active in neuroprotection. ● These molecules hold potential for treating diseases marked with neuronal death.

Protostane alisol derivatives from the rhizome of *Alisma orientale*

pp 8–11

Xiu-Lan Xin, Zhen-Peng Mai, Xun Wang, Liang Chen, Sa Deng and Bo Zhang

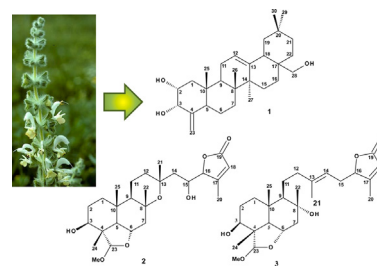
● Chemical investigation of rhizome of *Alisma orientalis* resulted in the isolation of four triterpenoids. ● On the basis of various spectroscopic data analysis, the isolated compounds were elucidated as new protostane type triterpenoids. ● All of the structures have C-3 carbonyl and highly oxygenated C-17 side chain.

New sesterterpenoids and other constituents from *Salvia dominica* growing wild in Jordan

pp 12–17

Mohammed R. Hasan, Hala I. Al-Jaber, Mahmoud A. Al-Qudah and Musa H. Abu Zarga

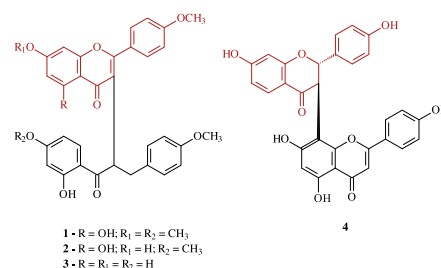
● Eighteen compounds were obtained from Jordanian *S. dominica* three of which are reported for the first time from nature. ● The new compounds included two sesterterpenoids (salvidominicolide A & B) and one 24-nor-oleanane triterpenoid. ● Structural elucidation was based on spectroscopic techniques (NMR, HRMS, UV, IR).

Biflavonoids from the bark roots of *Poincianella pyramidalis* (Fabaceae)

pp 18–22

José Cândido S. de Oliveira, Juceni P. David and Jorge M. David

● Four new and unusual biflavonoids with flavone–dihydrochalcone units were isolated from roots of *Poincianella pyramidalis* (Fabaceae). ● A new and flavanone–flavone biflavonoid, in addition to bichalcone rhuschalcone were also obtained. ● Presence of bioflavonoids are in agreement with the chemical and taxonomic knowledge of this genus.



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