



Volume 145, Issue 1, 9 January 2013

ISSN 0378-8741



Journal of ETHNO- PHARMACOLOGY

**Official Journal of the
International Society for Ethnopharmacology**

An Interdisciplinary Journal Devoted to Indigenous Drugs



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Review

- Network pharmacology-based prediction of the active ingredients and potential targets of Chinese herbal *Radix Curcumae* formula for application to cardiovascular disease
W. Tao, X. Xu, X. Wang, B. Li, Y. Wang, Y. Li, L. Yang (China) 1

Research Papers

- Antinociceptive, anti-inflammatory and antioxidant activities of aqueous extract from *Remirea maritima* (Cyperaceae)
A.S. Rabelo, I.D. Oliveira, A.G. Guimarães, J.S.S. Quintans, A.P.N. Prata, D.P. Gelain, E.M. Venceslau, J.P.A. Santos, L.J. Quintans-Júnior, L.R. Bonjardim, A. Barison, F.R. Campos, A.D.C. Santos, P.C.L. Nogueira, E.V. Costa, V.R.S. Moraes, A.A.S. Araújo (Brasil) 11
- Evaluation of anti-nociceptive, anti-inflammatory and antipyretic activities of *Artemisia scoparia* hydromethanolic extract
M. Habib (Pakistan), I. Waheed (Pakistan, UK) 18
- Comparative study of pharmacokinetics and tissue distribution of osthole in rats after oral administration of pure osthole and *Libanotis buchtormensis* supercritical extract
J. Shi, Q. Fu, W. Chen, H.-P. Yang, J. Liu, X.-M. Wang, X. He (China) 25
- Effect of *Mucuna pruriens* (Linn.) on mitochondrial dysfunction and DNA damage in epididymal sperm of streptozotocin induced diabetic rat
S. Suresh, E. Prithiviraj, N. Venkata Lakshmi, M. Karthik Ganesh, L. Ganesh, S. Prakash (India) 32
- Mechanisms of anti-inflammatory property of *Anacardium occidentale* stem bark: Inhibition of NF- κ B and MAPK signalling in the microglia
O.A. Olajide (United Kingdom, Germany), M.A. Aderogba (Nigeria), B.L. Fiebich (Germany) 42
- Antiphidic activity of the extract of the Amazon plant *Humirianthera ampla* and constituents
M.A. Strauch, M.A. Tomaz, M. Monteiro-Machado, H.D. Ricardo, B.L. Cons, F.F.A. Fernandes, C.Z. El-Kik, M.S. Azevedo, P. A. Melo (Brazil) 50
- Repeated administration of an aqueous spray-dried extract of the leaves of *Passiflora alata* Curtis (Passifloraceae) inhibits body weight gain without altering mice behavior
A. Braga, A. Cristina Stein, E. Dischkaln Stolz, E. Dallegrave, A. Buffon (Brazil), J.-C. do Rego (France), G. Gosmann, A. Fialho Viana, S.M. Kuze Rates (Brazil) 59
- Plants as medicinal stressors, the case of depurative practices in Chazuta valley (Peruvian Amazonia)
J. Sanz-Biset, S. Cañigueral (Spain) 67
- Sex dependent pharmacokinetics, tissue distribution and excretion of peimine and peiminine in rats assessed by liquid chromatography-tandem mass spectrometry
L.-h. Chen, H.-m. Zhang, Z.-y. Guan, W.-f. Zhu, W.-j. Yi, Y.-m. Guan, S. Wang, H.-n. Liu (PR China) 77
- A 26-week repeated dose toxicity study of *Xian-ling-gu-bao* in Sprague-Dawley rats
Y. Cheng, Y. Liu, H. Wang, J. Li, J. Ren, L. Zhu, L. Gong (China) 85
- Effect of acute pancreatitis on the pharmacokinetics of Chinese herbal ointment Liu-He-Dan in anaesthetized rats
X.-L. Zhao, J. Xiang, M.-H. Wan, Q. Yu, W.-w. Chen, G.-Y. Chen, W.-F. Tang (China) 94
- Anti-inflammatory and antinociceptive activities of *Campomanesia adamantium*
L.C. Ferreira, A. Grabe-Guimarães, C.A. de Paula, M.C.P. Michel, R.G. Guimarães, S.A. Rezende, J.D. de Souza Filho, D.A. Saúde-Guimarães (Brazil) 100

(Contents continued on BM)



| | |
|---|-----|
| Influence of polysaccharide fractions isolated from <i>Caltha palustris</i> L. on the cellular immune response in collagen-induced arthritis (CIA) in mice. A comparison with methotrexate A. Suszko, B. Obmińska-Mrukowicz (Poland) | 109 |
| Traditionally used <i>Veronica officinalis</i> inhibits proinflammatory mediators via the NF- κ B signalling pathway in a human lung cell line C. Gründemann, M. Garcia-Käufer, B. Sauer, E. Stangenberg, M. Könczöl, I. Merfort (Germany), M. Zehl (Austria), R. Huber (Germany) | 118 |
| From popular use to pharmacological validation: A study of the anti-inflammatory, anti-nociceptive and healing effects of <i>Chenopodium ambrosioides</i> extract L. TrivellatoGrassi, A. Malheiros, C. Meyre-Silva, Z. da Silva Buss, E.D. Monguilhott, T.S. Fröde, K.A.B.S. da Silva, M.M. de Souza (Brazil) | 127 |
| Anti-inflammatory, wound healing and <i>in-vivo</i> antioxidant properties of the leaves of <i>Ficus amplissima</i> Smith K. Arunachalam, T. Parimelazhagan (India) | 139 |
| Fresh ginger (<i>Zingiber officinale</i>) has anti-viral activity against human respiratory syncytial virus in human respiratory tract cell lines J.S. Chang, K.C. Wang, C.F. Yeh, D.E. Shieh, L.C. Chiang (Taiwan) | 146 |
| Hydrogen peroxide-mediated oxidative stress and collagen synthesis in cardiac fibroblasts: Blockade by tanshinone IIA P. Wang, S. Zhou, L. Xu, Y. Lu, X. Yuan, H. Zhang, R. Li, J. Fang, P. Liu (China) | 152 |
| Aged garlic extract restores nitric oxide bioavailability in cultured human endothelial cells even under conditions of homocysteine elevation N. Weiss, L. Papatheodorou, N. Morihara, R. Hilge, N. Ide (Germany) | 162 |
| Neuroprotective effects of the Chinese Yi-Qi-Bu-Shen recipe extract on injury of rat hippocampal neurons induced by hypoxia/reoxygenation D.-s. Liu, Y.-h. Zhou, E.-s. Liang, W. Li, W.-w. Lin, F.-f. Chen, W. Gao (PR China) | 168 |
| Fuzheng Huayu inhibits carbon tetrachloride-induced liver fibrosis in mice through activating hepatic NK cells Q. Cheng, N. Li, M. Chen, J. Zheng, Z. Qian, X. Wang, C. Huang, Q. Li, Q. Lin, G. Shi (China) | 175 |
| Purification and characterization of a novel antithrombotic peptide from <i>Scolopendra subspinipes mutilans</i> Y. Kong, S.-L. Huang, Y. Shao, S. Li, J.-F. Wei (PR China) | 182 |
| Antihypertensive effects of extract from <i>Picrasma quassioides</i> (D. Don) Benn. in spontaneously hypertensive rats W. Zhao, J. Yu, Q. Su, J. Liang, L. Zhao (PR China), Y. Zhang (France), W. Sun (PR China) | 187 |
| Magnolol inhibits lipopolysaccharide-induced inflammatory response by interfering with TLR4 mediated NF- κ B and MAPKs signaling pathways Y. Fu, B. Liu, N. Zhang, Z. Liu, D. Liang, F. Li, Y. Cao, X. Feng, X. Zhang, Z. Yang (PR China) | 193 |
| The cytotoxic effects of <i>Scilla nervosa</i> (Burch.) Jessop (<i>Hyacinthaceae</i>) aqueous extract on cultured HepG2 cells P. Pillay, A. Phulukdaree, A.A. Chuturgoon, K. Du Toit, J. Bodenstern (South Africa) | 200 |
| The antinociceptive and anti-inflammatory effects of the crude extract of <i>Jatropha isabellei</i> in a rat gout model C.R. Silva, J.K. Fröhlich, S.M. Oliveira, T.N. Cabreira, M.F. Rossato, G. Trevisan, A.L. Froeder, G.V. Bochi, R.N. Moresco, M.L. Athayde, J. Ferreira (Brazil) | 205 |
| Indirubin, a purple 3,2- bisindole, inhibited allergic contact dermatitis via regulating T helper (Th)-mediated immune system in DNCB-induced model M.H. Kim, Y.Y. Choi, G. Yang, I.-H. Cho, D. Nam, W.M. Yang (Republic of Korea) | 214 |
| Characterization of the aqueous extract of the root of <i>Aristolochia indica</i> : Evaluation of its traditional use as an antidote for snake bites P. Bhattacharjee, D. Bhattacharyya (India) | 220 |
| Hypotensive effect of <i>Aspidosperma subincanum</i> Mart. in rats and its mechanism of vasorelaxation in isolated arteries M.J.C. Bernardes, F.S.d. Carvalho, L. Lima Silveira, J.R.d. Paula, M.T.F. Bara, C.F. Garrote, G.R. Pedrino, M.L. Rocha (Brazil) | 227 |
| Antidiabetic effects of malonyl ginsenosides from <i>Panax ginseng</i> on type 2 diabetic rats induced by high-fat diet and streptozotocin Z. Liu, W. Li, X. Li, M. Zhang, L. Chen, Y.-n. Zheng, G.-z. Sun, C.-c. Ruan (China) | 233 |
| The Th1/Th2/Th17/Treg paradigm induced by stachydrine hydrochloride reduces uterine bleeding in RU486-induced abortion mice X. Li, B. Wang, Y. Li, L. Wang, X. Zhao, X. Zhou, Y. Guo, G. Jiang, C. Yao (China) | 241 |
| Mechanism of protective effects of Danshen against iron overload-induced injury in mice Y. Gao, N. Wang, Y. Zhang, Z. Ma, P. Guan, J. Ma, Y. Zhang, X. Zhang, J. Wang, J. Zhang, L. Chu (China) | 254 |
| Hexane extract from <i>Polygonum multiflorum</i> attenuates glutamate-induced apoptosis in primary cultured cortical neurons J.Y. Jang, H.N. Kim, Y.R. Kim, Y.W. Choi, Y.H. Choi, J.H. Lee, H.K. Shin, B.T. Choi (Republic of Korea) | 261 |
| Antioxidant and anti-inflammatory effects of <i>Urtica pilulifera</i> extracts in type2 diabetic rats D.M. Abo-elmatty, S.S. Essawy, J.M. Badr (Egypt), O. Sterner (Sweden) | 269 |

Continued from previous page

- The inhibitory activity of atractylenolide III, a sesquiterpenoid, on IgE-mediated mast cell activation and passive cutaneous anaphylaxis (PCA)
N.-n. Zhang, D.K. Park, H.-J. Park (Republic of Korea) 278
- Antispasmodic effect of shakuyakukanzoto extract on experimental muscle cramps *in vivo*: Role of the active constituents of *Glycyrrhizae radix*
K.K. Lee, Y. Omiya, M. Yuzurihara, Y. Kase, H. Kobayashi (Japan) 286
- Effects of Korean red ginseng extract on the prevention of atopic dermatitis and its mechanism on early lesions in a murine model
E. Cho, S.H. Cho (Korea) 294
- Safety evaluation of main alkaloids from *Rhizoma Coptidis*
J. Yi, X. Ye, D. Wang, K. He, Y. Yang, X. Liu, X. Li (China) 303
- Combretum leprosum* Mart. (Combretaceae): Potential as an antiproliferative and anti-inflammatory agent
C.D.d.S. Horinouchi, D.A.G.B. Mendes, B.d.S. Soley, E.F. Pietrovski, V.A. Facundo, A.R.S. Santos, D.A. Cabrini, M.F. Otuki (Brazil) 311
- Efficacy and safety of Wuling capsule, a single herbal formula, in Chinese subjects with insomnia: A multicenter, randomized, double-blind, placebo-controlled trial
Y. Lin, X.-y. Wang, R. Ye, W.-h. Hu, S.-c. Sun, H.-j. Jiao, X.-h. Song, Z.-z. Yuan, Y.-y. Zheng, G.-q. Zheng, J.-C. He (China) 320
- Traditional plant use in the National Park of Cilento and Vallo di Diano, Campania, Southern, Italy
R. Di Novella, N. Di Novella, L. De Martino, E. Mancini, V. De Feo (Italy) 328
- Dentatin isolated from *Clausena excavata* induces apoptosis in MCF-7 cells through the intrinsic pathway with involvement of NF- κ B signalling and G0/G1 cell cycle arrest: A bioassay-guided approach
I.A. Arbab, A.B. Abdul, M.A. Sukari, R. Abdullah, S. Syam, B. Kamalidehghan, M.Y. Ibrahim (Malaysia), M.M.E. Taha, S.I. Abdelwahab (Kingdom of Saudi Arabia), H. Mohd Ali, S. Mohan (Malaysia) 343
- Antinociceptive activity of fruits extracts and "arropé" of *Geoffroea decorticans* (chañar)
M.A. Reynoso, N. Vera, M.E. Aristimuño, A. Daud, A. Sánchez Riera (Argentina) 355
- Anti-diabetic and anti-cataract effects of *Chromolaena odorata* Linn., in streptozotocin-induced diabetic rats
M. Onkaramurthy, V.P. Veerapur, B.S. Thippeswamy, T.N. Madhusudana Reddy, H. Rayappa, S. Badami (India) 363
- Ethnopharmacological Communication**
- Substantiation of the ethnopharmacological use of *Conyza sumatrensis* (Retz.) E.H.Walker in the treatment of malaria through *in-vivo* evaluation in *Plasmodium berghei* infected mice
P. Kamdem Boniface (Cameroon, India), A. Pal (India) 373
- Edible bird's nests—How do the red ones get red?
P.P.-H. But, R.-W. Jiang, P.-C. Shaw (PR China) 378
- New antiplasmodial alkaloids from *Stephania rotunda*
B. Baghdikian, V. Mahiou-Leddet, S. Bory, S.-S. Bun, A. Dumetre, F. Mabrouki, S. Hutter, N. Azas, E. Ollivier (France) 381
- Sweet tea leaves extract improves leptin resistance in diet-induced obese rats
C.-J. Zhou, S. Huang, J.-Q. Liu, S.-Q. Qiu, F.-Y. Xie, H.-P. Song, Y.-S. Li, S.-Z. Hou, X.-P. Lai (China) 386
- Macrophage activating activity of pyrrole alkaloids from *Morus alba* fruits
S.B. Kim, B.Y. Chang, Y.H. Jo, S.H. Lee, S.-B. Han, B.Y. Hwang, S.Y. Kim, M.K. Lee (Republic of Korea) 393
- Bioevaluation of *Anisomeles indica* extracts and their inhibitory effects on *Helicobacter pylori*-mediated inflammation
H.M. Lien, C.Y. Wang, H.Y. Chang, C.L. Huang, M.T. Peng, Y.T. Sing, C.C. Chen, C.H. Lai (Taiwan) 397
- Erratum**
- Erratum to: "An imprecise probability approach for the detection of over and underused taxonomic groups with the Campania (Italy) and the Sierra Popoluca (Mexico) medicinal flora" [J. Ethnopharmacol. 142, 259–264 (Epub: 10 May 2012)]
C.S. Weckerle, S. Cabras, M.E. Castellanos, M. Leonti (Italy) 402



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMBiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Review

- Deer antler base as a traditional Chinese medicine: A review of its traditional uses, chemistry and pharmacology
F. Wu, H. Li, L. Jin, X. Li, Y. Ma, J. You, S. Li, Y. Xu (PR China) 403

Research Papers

- Effects of *Catalpa ovata* stem bark on atopic dermatitis-like skin lesions in NC/Nga mice
G. Yang, C.-H. Choi, K. Lee, M. Lee, I. Ham, H.-Y. Choi (Republic of Korea) 416
- The possible mechanisms of *Picrasma quassioides* (D. Don) Benn. in the treatment of colitis induced by 2,4,6-trinitrobenzene sulfonic acid in mice
W. Zhao, C. Sun, J. He, L. Chen (PR China), Y. Zhang (France), W. Sun (PR China) 424
- Withania somnifera* root extract ameliorates hypobaric hypoxia induced memory impairment in rats
I. Baitharu, V. Jain, S.N. Deep, K.B. Hota, S.K. Hota, D. Prasad, G. Ilavazhagan (India) 431
- Reduced system exposures of total rhein and baicalin after combinatory oral administration of rhein, baicalin and berberine to beagle dogs and rats
Z. Wang, H. Hu, F. Chen, K. Lan, A. Wang (PR China) 442
- Medicinal plant use in two Andean communities located at different altitudes in the Bolívar Province, Peru
M. Monigatti (Switzerland), R.W. Bussmann (USA), C.S. Weckerle (Switzerland) 450
- Rapid-resolution liquid chromatography TOF-MS for urine metabolomic analysis of collagen-induced arthritis in rats and its applications
R. Yue, L. Zhao, Y. Hu, P. Jiang, S. Wang, L. Xiang, W. Liu (China), W. Zhang (China, Saudi Arabia), R. Liu (China) 465
- Kaempferitrin induces apoptosis via intrinsic pathway in HeLa cells and exerts antitumor effects
A.J. Alonso-Castro, E. Ortiz-Sánchez, A. García-Regalado, G. Ruiz, J.M. Núñez-Martínez, I. González-Sánchez, V. Quintanar-Jurado, E. Morales-Sánchez, F. Dominguez, G. López-Toledo, M.A. Cerbón, A. García-Carrancá (Mexico) 476
- Antihyperglycemic effect of the traditional Chinese scutellaria-coptis herb couple and its main components in streptozotocin-induced diabetic rats
S.-Z. Liu, Y.-X. Deng, B. Chen, X.-J. Zhang, Q.-Z. Shi, X.-M. Qiu (PR China) 490
- ERK1- and TBK1-targeted anti-inflammatory activity of an ethanol extract of *Dryopteris crassirhizoma*
Y. Yang, G.J. Lee, D.H. Yoon, T. Yu, J. Oh, D. Jeong, J. Lee, S.H. Kim, T.W. Kim, J.Y. Cho (Republic of Korea) 499
- In vivo* metabolites and plasma exposure of TongMai Keli analyzed by UHPLC/DAD/qTOF-MS and LC/MS/MS
C.-f. Liu, X. Qiao, K.-d. Liu, W.-j. Miao, Y.-j. Li, Y. Liu, Y.-y. Jiang, T. Bo, R.-b. Shi, D.-a. Guo, M. Ye (China) 509
- Traditional knowledge on medicinal and food plants used in Val San Giacomo (Sondrio, Italy)—An alpine ethnobotanical study
S. Vitalini, M. Iriti, C. Puricelli, D. Ciuchi, A. Segale, G. Fico (Italy) 517
- Gastroprotective effect of *Hintonia latiflora* and *Hintonia standleyana* aqueous extracts and compounds
S. Cristians, R. Bye, A. Navarrete, R. Mata (Mexico) 530
- Topical application of Taglisodog-eum inhibits the development of experimental atopic dermatitis
J.S. Hwang, J.-E. Kim, H.-T. Kim, Y.-B. Yu, S.-H. Im (Republic of Korea) 536
- Ethnobotanical survey of biopesticides and other medicinal plants traditionally used in Meru central district of Kenya
D.W. Gakuya, S.M. Itonga, J.M. Mbaria, J.K. Muthee, J.K. Musau (Kenya) 547
- An ethnobotanical study of medicinal plants and traditional therapies on Batan Island, the Philippines
R. Abe, K. Ohtani (Japan) 554

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|---|-----|
| Influences of processed rhubarbs on the activities of four CYP isozymes and the metabolism of saxagliptin in rats based on probe cocktail and pharmacokinetics approaches J. Gao, Z. Shi, S. Zhu (China), G.Q. Li (Australia), R. Yan, M. Yao (China) | 566 |
| Shikonin ameliorates cerulein-induced acute pancreatitis in mice J. Xiong, J. Ni, G. Hu, J. Shen, Y. Zhao, L. Yang, J. Shen, G. Yin, C. Chen, G. Yu, Y. Hu, M. Xing, R. Wan, X. Wang (China) | 573 |
| <i>In vitro</i> anti- <i>Helicobacter pylori</i> activity of a flavonoid rich extract of <i>Glycyrrhiza glabra</i> and its probable mechanisms of action M.K. Asha, D. Debraj, D. Prashanth, J.R. Edwin, H.S. Srikanth, N. Muruganantham, S.M. Dethé, B. Anirban, B. Jaya, M. Deepak, A. Agarwal (India) | 581 |
| Antimalarial and safety evaluation of extracts from <i>Toddalia asiatica</i> (L.) Lam. (Rutaceae) J.A. Orwa, L. Ngeny, N.M. Mwikwabe, J. Ondicho, I.J.O. Jondiko (Kenya) | 587 |
| Antiadhesion as a functional concept for protection against uropathogenic <i>Escherichia coli</i> : <i>In vitro</i> studies with traditionally used plants with antiadhesive activity against uropathogenic <i>Escherichia coli</i> N. Rafsanjany, M. Lechtenberg, F. Petereit, A. Hensel (Germany) | 591 |
| Methanol extract of <i>Hopea odorata</i> suppresses inflammatory responses via the direct inhibition of multiple kinases Y. Yang, T. Yu, Y. Gyu Lee, W. Seok Yang, J. Oh, D. Jeong, S. Lee, T. Woong Kim, Y. Chul Park, G.-H. Sung, J. Youl Cho (Republic of Korea) | 598 |
| Treating epilepsy in Italy between XIX and XX century G. Tagarelli, A. Tagarelli, M. Liguori, A. Piro (Italy) | 608 |
| Indigo naturalis upregulates claudin-1 expression in human keratinocytes and psoriatic lesions Y.-K. Lin, H.-W. Chen, Y.-L. Leu, Y.-L. Yang, Y. Fang (Taiwan.), T.-L. Hwang (Taiwan., Taiwan) | 614 |
| Chemical constituents and antibacterial property of the essential oil of the roots of <i>Cyathocline purpurea</i> R.K. Joshi (India) | 621 |
| Molecular mechanism of capillarisin-mediated inhibition of MyD88/TIRAP inflammatory signaling in <i>in vitro</i> and <i>in vivo</i> experimental models S. Khan, R.J. Choi, O. Shehzad, H.P. Kim, Md.N. Islam, J.S. Choi, Y.S. Kim (Republic of Korea) | 626 |
| <i>In vivo</i> wound healing activity and phytochemical screening of the crude extract and various fractions of <i>Kalanchoe petitiiana</i> A. Rich (Crassulaceae) leaves in mice A. Mekonnen, T. Sidamo, K. Asres, E. Engidawork (Ethiopia) | 638 |
| Comparison of the chemical composition and biological effects of the roots, branches and leaves of <i>Heteropterys tomentosa</i> A. Juss L.I.G. Paula-Freire, F.R. Mendes, G.R. Molska, J.M. Duarte-Almeida, E.A. Carlini (Brazil) | 647 |
| CGX, a multiple herbal drug, improves cholestatic liver fibrosis in a bile duct ligation-induced rat model H.-G. Kim, J.-M. Han, H.-W. Lee, J.-S. Lee, S.-W. Son, M.-K. Choi, D.-S. Lee (Republic of Korea), J.-H. Wang (Republic of Korea, People's Republic China), C.-G. Son (Republic of Korea) | 653 |
| <i>Ethnopharmacological Communications</i> | |
| Biological effects of aqueous extract from Turkey vulture <i>Cathartes aura</i> (Cathartidae) meat M.d.R. Jacobo-Salcedo, M.d.C. Juárez-Vázquez, L.Á. González-Espindola, S.P. Maciel-Torres (México), A. García-Carrancá, A.J. Alonso-Castro (México, Mexico) | 663 |
| Inhibitory effects of crude polysaccharides from semen vaccariae on benign prostatic hyperplasia in mice H. Zhang, Y. Jing, G. Wu (China) | 667 |
| Evaluation of <i>Ginkgo biloba</i> extract as an activator of human glucocorticoid receptor A.J. Lau, G. Yang (Canada), G. Rajaraman, C.C. Baucom (USA), T.K.H. Chang (Canada) | 670 |
| <i>Announcement</i> | |
| Bionorica Phytoneering Award 2013 | I |
| Egon Stahl-Award in Silver 2013 | II |



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®].

Reviews

Zebrafish: A nontraditional model of traditional medicine

R.M. Littleton, J.R. Hove (USA)

677

Zataria multiflora Boiss. (Shirazi thyme)—An ancient condiment with modern pharmaceutical uses

H. Sajed, A. Sahebkar, M. Iranshahi (Iran)

686

Research Papers

Therapeutic effects of total alkaloids of *Tripterygium wilfordii* Hook f. on collagen-induced arthritis in rats

Y. Zhang, W. Xu, H. Li, X. Zhang, Y. Xia, K. Chu (China), L. Chen (PR China)

699

Standardized quassinoid-rich *Eurycoma longifolia* extract improved spermatogenesis and fertility in male rats via the hypothalamic–pituitary–gonadal axis

B.-S. Low, P.K. Das, K.-L. Chan (Malaysia)

706

Icariin from *Epimedium brevicornum* Maxim promotes the biosynthesis of estrogen by aromatase (CYP19)

L. Yang, D. Lu, J. Guo, X. Meng, G. Zhang, F. Wang (China)

715

Evaluation of the anti-myocardial ischemia effect of individual and combined extracts of *Panax notoginseng* and *Carthamus tinctorius* in rats

S.-Y. Han, H.-X. Li, X. Ma, K. Zhang, Z.-Z. Ma, Y. Jiang, P.-F. Tu (PR China)

722

Anti-cancer, anti-inflammatory and anti-microbial activities of plant extracts used against hematological tumors in traditional medicine of Jordan

A.M. Assaf, R.N. Haddadin, N.A. Aldouri, R. Alabbassi, S. Mashallah, M. Mohammad, Y. Bustanji (Jordan)

728

Antidepressant-like action of the bark ethanolic extract from *Tabebuia avellanedae* in the olfactory bulbectomized mice

A.E. Freitas, D.G. Machado, J. Budni, V.B. Neis, G.O. Balen, M.W. Lopes, L.F. de Souza, P.O. Veronezi, M. Heller, G.A. Mücke, M.G. Pizzolatti, A.L. Dafre, R.B. Leal, A.L.S. Rodrigues (Brazil)

737

The traditional medical uses and cytotoxic activities of sixty-one Egyptian plants: Discovery of an active cardiac glycoside from *Urginea maritima*

H.R. El-Seedi (Sweden, Egypt), R. Burman (Sweden), A. Mansour, Z. Turki, L. Boulos (Egypt), J. Gullbo, U. Göransson (Sweden)

746

Renoprotective effects of the crude extract and solvent fractions of the leaves of *Euclea divinorum* Hierns against gentamicin-induced nephrotoxicity in rats

T. Feyissa, K. Asres, E. Engidawork (Ethiopia)

758

Artemisia leaf extract induces apoptosis in human endometriotic cells through regulation of the p38 and NFκB pathways

J.-H. Kim, S.-H. Jung, Y.-I. Yang, J.-H. Ahn, J.-G. Cho, K.-T. Lee, N.-I. Baek, J.-H. Choi (Republic of Korea)

767

A herbal formula containing roots of *Salvia miltiorrhiza* (Danshen) and *Pueraria lobata* (Gegen) inhibits inflammatory mediators in LPS-stimulated RAW 264.7 macrophages through inhibition of nuclear factor κB (NFκB) pathway

D.W.-S. Cheung, C.-M. Koon, E. Wat, C.-H. Ko, J.Y.-W. Chan, D.T.-W. Yew, P.-C. Leung, W.-Y. Chan, C.B.-S. Lau, K.-P. Fung (Hong Kong)

776

Development of an SPE–HPLC–MS method for simultaneous determination and pharmacokinetic study of bioactive constituents of *Yu Ping Feng San* in rat plasma after oral administration

T. Li, Y. Wang, Y. Wang, R. Liang, D. Zhang, H. Zhang, L. Chen, W. Yang (PR China)

784

(Contents continued on BM)



(contents continued from outside back cover)

- Topical effects of frog "*Rana ridibunda*" skin secretions on wound healing and reduction of wound microbial load
 M. Mashreghi, M. Rezazade Bazaz, N. Mahdavi Shahri, A. Asoodeh, M. Mashreghi, M. Behnam Rassouli,
 S. Golmohammadzadeh (Iran) 793
- Antimicrobial compounds from *Alpinia conchigera*
 A.N. Aziz, H. Ibrahim, D. Rosmy Syamsir, M. Mohtar, J. Vejayan, K. Awang (Malaysia) 798
- The leaves of *Ficus exasperata* Vahl (Moraceae) generates uterine active chemical constituents
 E.E. Bafor, C.V. Lim, E.G. Rowan, R. Edrada-Ebel (United Kingdom) 803
- Chemical and biological characterisation of solvent extracts and essential oils from leaves and fruit of two Australian species of
Pittosporum (Pittosporaceae) used in aboriginal medicinal practice
 N.J. Sadgrove, G.L. Jones (Australia) 813
- Ethnopharmacological Communication*
- Screening of plants used in Danish folk medicine to treat depression and anxiety for affinity to the serotonin transporter and
 inhibition of MAO-A
 A.K. Jäger, B. Gauguin, J. Andersen, A. Adsersen, L. Gudiksen (Denmark) 822



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMBiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- The aerial part of *Taraxacum coreanum* extract has an anti-inflammatory effect on peritoneal macrophages in vitro and increases survival in a mouse model of septic shock
M.-H. Lee, H. Kang, K. Lee, G. Yang, I. Ham, Y. Bu, H. Kim, H.-Y. Choi (Republic of Korea) 1
- Naturally derived anti-inflammatory compounds from Chinese medicinal plants
Q. Wang, H. Kuang, Y. Su, Y. Sun, J. Feng, R. Guo (China), K. Chan (Australia) 9
- Evidence-based toxicity evaluation and scheduling of Chinese herbal medicines
E.J.Y. Kim, Y. Chen, J.Q. Huang, K.M. Li, V. Razmovski-Naumovski, J. Poon, K. Chan, B.D. Roufogalis, A.J. McLachlan (Australia), S.-L. Mo, D. Yang, M. Yao, Z. Liu, J. Liu, G.Q. Li (China) 40
- The scorpion in Spanish folk medicine: A review of traditional remedies for stings and its use as a therapeutic resource
J.A. González, J.R. Vallejo (Spain) 62

Research Papers

- Ethnozoological study of medicinal animals on Jeju Island, Korea
H. Kim, M.-J. Song (Republic of Korea) 75
- The anti-osteoporotic effect of Yijung-tang in an ovariectomized rat model mediated by inhibition of osteoclast differentiation
T. Kim, H. Ha, K.-S. Shim, W.-K. Cho, J.Y. Ma (Republic of Korea) 83
- Ethnobotanical study in the Madonie Regional Park (Central Sicily, Italy)—Medicinal use of wild shrub and herbaceous plant species
C. Leto, T. Tuttolomondo, S. La Bella, M. Licata (Italy) 90
- An ethnobotanical study of medicinal plants in Marmaris (Muğla, Turkey)
B. Gürdal, Ş. Kültür (Turkey) 113
- Medical ethnobotany of the Chayahuita of the Parana basin (Peruvian Amazon)
G. Odonne, C. Valadeau (France), J. Alban-Castillo (Peru), D. Stien (France), M. Sauvain (France, Perú), G. Bourdy (France) 127
- Ethnobotanical study of medicinal plants used for the treatment of malaria in plateau of Allada, Benin (West Africa)
M.H. Yetein, L.G. Houessou, T.O. Lougbégnon, O. Teka, B. Tente (Benin) 154
- Pro-sexual effects of *Turnera diffusa* Wild (Turneraceae) in male rats involves the nitric oxide pathway
R. Estrada-Reyes, M. Carro-Juárez, L. Martínez-Mota (México) 164
- Anti-inflammatory and mutagenic evaluation of medicinal plants used by Venda people against venereal and related diseases
R.B. Mulaudzi, A.R. Ndhllala, M.G. Kulkarni, J.F. Finnie, J. Van Staden (South Africa) 173
- Antinociceptive effect of *Lecythis pisonis* Camb. (Lecythidaceae) in models of acute pain in mice
M.S. Brandão, S.S. Pereira, D.F. Lima, J.P.C. Oliveira, E.L.F. Ferreira, M.H. Chaves, F.R.C. Almeida (Brazil) 180
- Dose-dependent antihypertensive determination and toxicological studies of tilianin isolated from *Agastache mexicana*
O. Hernández-Abreu, M. Torres-Piedra, S. García-Jiménez, M. Ibarra-Barajas, R. Villalobos-Molina, S. Montes, D. Rembao, S. Estrada-Soto (Mexico) 187
- Orofacial antinociceptive effect and antioxidant properties of the hydroethanol extract of *Hyptis fruticosa* salmz ex Benth
A.C.B.d. Lima, M.S. Paixão, M. Melo, M.T.d. Santana, N.P. Damascena, A.S. Dias, Y.C.B.S. Porto, X.A. Fernandes, C.C.S. Santos, C.A. Lima, L.J.Q. Júnior, C.d.S. Estevam, B.S. Araújo (Brazil) 192
- Isolation and identification of antibacterial and cytotoxic compounds from the leaves of *Muntingia calabura* L.
A.S. Sufian, K. Ramasamy, N. Ahmat, Z.A. Zakaria, M.I.M. Yusof (Malaysia) 198

(Contents continued on BM)



Continued from previous page

- Ethanol extract of *Alismatis Rhizoma* reduces acute lung inflammation by suppressing NF- κ B and activating Nrf2
C.W. Han, M.J. Kwun, K.H. Kim, J.-Y. Choi, S.-R. Oh, K.-S. Ahn, J.H. Lee (Republic of Korea), M. Joo (Republic of Korea, USA) 402
- Efficacy of *Adiantum capillus veneris* Linn in chemically induced urolithiasis in rats
A. Ahmed, A. Wadud, N. Jahan, A. Bilal, S. Hajera (India) 411
- Zanthoxylum capense* constituents with antimycobacterial activity against *Mycobacterium tuberculosis* *in vitro* and *ex vivo* within human macrophages
X. Luo, D. Pires (Portugal), J.A. Aínsa, B. Gracia (Spain), N. Duarte, S. Mulhovo (Mozambique), E. Anes, M.-J.U. Ferreira (Portugal) 417
- Ethnopharmacological Communication*
- Participation of extracellular calcium in α -hederin-induced contractions of rat isolated stomach strips
M. Mendel, M. Chłopecka, N. Dziekan, W. Karlik, M. Wiechetek (Poland) 423
- Book Reviews*
- Plants and Humans in the Near East and the Caucasus. Ancient and Traditional Uses of Plants as Food or Medicine. An Ethnobotanical Diachronic Review. Two Volumes. Diego Rivera, Gonzalo Matilla, Concepción Obón, Francisco Alcaraz. Editum (Ediciones de la Universidad de Murcia), Murcia (2011). Volume 1 (p. 341): The Landscapes; The Plants: Ferns and Gymnosperms. Volume 2 (p. 1057): The Plants: Angiosperms. More than 209 tables, 8 figures, appendix and glossary, softcover, ISBN Vol. 1 978-84-15463-05-4, Vol. 2 978-84-15463-06-1. Price: EUR 23.75.
A. Lardos (UK) 427
- Chocolate in Health and Nutrition, Ronald R. Watson, Victor R. Preedy, Sherma Zibadi, (Eds.), 2013. Numerous b&w Illustrations, Bibliography with Each Chapter, Index, Springer (Humana Press), New York, Heidelberg, etc., 553 pp., €169.95, US \$239.00, ISBN: 978-1-61779-802-3 (hardcover); no price given, ISBN: 978-1-61779-803-0 (e-book).
M. Heinrich (United Kingdom) 429
- Christophe Wiart, 2013. Medicinal Plants of China, Korea and Japan—Bioresources for Tomorrow's Drugs and Cosmetics. CRC Press, Boca Raton, FL, USA. 432 pp. (Numerous b&w illustrations, eight colour illustrations, bibliography with each chapter, indexes of common names, medicinal uses, natural products, pharmacological terms, plants. US \$ 149.95 ISBN: 978-1-4398-9911-3 (Hardcover).
M. Heinrich (UK) 430
- Corrigendum*
- Corrigendum to "Antispasmodic Effect of Shakuyakukanzoto Extract on Experimental Muscle Cramps *In Vivo*: Role of the Active Constituents of Glycyrrhizae Radix"
K.K. Leea, Y. Omiyab, M. Yuzuriharab, Y. Kaseb, H. Kobayashia (Japan) 431



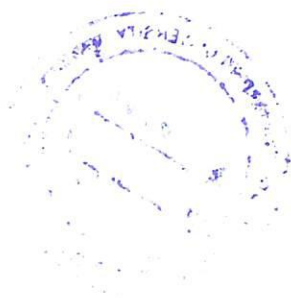
(contents continued from outside back cover)

| | |
|---|-----|
| <i>In vitro</i> and <i>in vivo</i> anti-inflammatory effect of <i>Rhodomyrtus tomentosa</i> methanol extract | |
| D. Jeong, W.S. Yang, Y. Yang, G. Nam, J.H. Kim, D.H. Yoon, H.J. Noh, S. Lee, T.W. Kim, G.-H. Sung, J.Y. Cho (Republic of Korea) | 205 |
| Medicinal plant complexes of <i>Salvia</i> subgenus <i>Calosphace</i> : An ethnobotanical study of new world sages | |
| A.A. Jenks (USA), S.-C. Kim (Republic of Korea) | 214 |
| Cardiovascular effects of <i>Tulbaghia violacea</i> Harv. (Alliaceae) root methanolic extract in Dahl salt-sensitive (DSS) rats | |
| K. Moodley, I. Mackraj, Y. Naidoo (South Africa) | 225 |
| Immunomodulatory activity of polysaccharides isolated from <i>Alchornea cordifolia</i> | |
| K. Kouakou, I.A. Schepetkin, A. Yapi (Côte d'Ivoire), L.N. Kirpotina, M.A. Jutila, M.T. Quinn (USA) | 232 |
| Immunomodulatory and cellular anti-oxidant activities of an aqueous extract of <i>Limoniastrum guyonianum</i> gall | |
| M. Krifa, I. Bouhlef, L. Ghedira-Chekir, K. Ghedira (Tunisia) | 243 |
| Antihepatotoxic activity of a quantified <i>Desmodium adscendens</i> decoction and D-pinitol against chemically-induced liver damage in rats | |
| J. Magielse, T. Arcoraci (Italy), A. Breynaert, I.v. Dooren, C. Kanyanga, E. Franssen, V.V. Hoof, A. Vlietinck, S. Apers, L. Pieters, N. Hermans (Belgium) | 250 |
| <i>Acanthopanax senticosus</i> extracts have a protective effect on <i>Drosophila</i> gut immunity | |
| W. Li, Q. Luo, L.H. Jin (China) | 257 |
| Anti-inflammatory, antimicrobial and antioxidant activities of <i>Diospyros bipindensis</i> (Gürke) extracts and its main constituents | |
| I. Cesari, M. Hoerlé, C. Simoes-Pires, P. Grisoli, E.F. Queiroz, C. Dacarro, L. Marcourt, P.F. Moundipa (Cameroon), P.A. Carrupt, M. Cuendet (Switzerland), G. Caccialanza, J.L. Wolfender, G. Brusotti (Italy) | 264 |
| Geniposidic acid protects against D-galactosamine and lipopolysaccharide-induced hepatic failure in mice | |
| S.-J. Kim, K.-M. Kim, J. Park, J.-H. Kwak, Y.S. Kim, S.-M. Lee (Republic of Korea) | 271 |
| The discovery of <i>Artemisia annua</i> L. in the Shengjindian cemetery, Xinjiang, China and its implications for early uses of traditional Chinese herbal medicine <i>qinghao</i> | |
| H. Liu, X. Tian, Y. Zhang, C. Wang, H. Jiang (China) | 278 |
| <i>Morus bombycis</i> extract suppresses mast cell activation and IgE-mediated allergic reaction in mice | |
| J. Dong Kim, D.K. Kim, H. Soon Kim, A.-R. Kim, B. Kim, E. Her, K. Hee Park, H. Sik Kim, Y. Mi Kim, W. Soo Choi (Republic of Korea) | 287 |
| Ginsenosides Rg5 and Rh3 protect scopolamine-induced memory deficits in mice | |
| E.-J. Kim, I.-H. Jung, T.K. Van Le, J.-J. Jeong, N.-J. Kim, D.-H. Kim (Republic of Korea) | 294 |
| Anti-inflammatory intestinal activity of <i>Arctium lappa</i> L. (Asteraceae) in TNBS colitis model | |
| A.B.A. de Almeida (Brazil), M. Sánchez-Hidalgo, A.R. Martín (Spain), A. Luiz-Ferreira, J.R. Trigo, W. Vilegas, L.C. dos Santos, A.R.M. Souza-Brito (Brazil), C.A. de la Lastra (Spain) | 300 |
| Neuropharmacological <i>in vivo</i> effects and phytochemical profile of the extract from the aerial parts of <i>Heteropterys brachiata</i> (L.) DC. (Malpighiaceae) | |
| M. Huerta-Reyes, M. Herrera-Ruiz, M. González-Cortazar, A. Zamilpa, E. León, R. Reyes-Chilpa, A. Aguilar-Rojas, J. Tortoriello (Mexico) | 311 |
| Anti-hyperalgesic activity of corilagin, a tannin isolated from <i>Phyllanthus niruri</i> L. (Euphorbiaceae) | |
| J. Moreira, L.C. Klein-Júnior, V.C. Filho, F.d.C. Buzzi (Brazil) | 318 |
| Anti-inflammatory activity of ethanol extract and fractions from <i>Couropita guianensis</i> Aublet leaves | |
| M.M.G. Pinheiro, S.B.O. Fernandes, C.E. Fingolo (Brazil), F. Boylan (Ireland), P.D. Fernandes (Brazil) | 324 |
| Traditional uses of some medicinal plants in Malatya (Turkey) | |
| F. Tetik, S. Civelek, U. Cakilcioglu (Turkey) | 331 |
| The effects of lignan-riched extract of <i>Shisandra chinensis</i> on amyloid- β -induced cognitive impairment and neurotoxicity in the cortex and hippocampus of mouse | |
| E.J. Jeong, H.K. Lee, K.Y. Lee, B.J. Jeon, D.H. Kim, J.-H. Park, J.-H. Song, J. Huh, J.-H. Lee, S.H. Sung (South Korea) | 347 |
| Therapeutic effects of extracts from <i>Radix Toddaliae</i> Asiaticae on collagen-induced arthritis in Balb/c mice | |
| K. Yang, L. Tong, C. Chen, P. Zhang, H. Pi, H. Ruan, J. Wu (China) | 355 |
| Da-Bu-Yin-Wan and Qian-Zheng-San, two traditional Chinese herbal formulas, up-regulate the expression of mitochondrial subunit NADH dehydrogenase 1 synergistically in the mice model of Parkinson's disease | |
| Y. Zhang, H.-M. Sun, X. He, Y.-Y. Wang, Y.-S. Gao, H.-X. Wu, H. Xu, X.-G. Gong, Z.-Y. Guo (China) | 363 |
| Inhibitory effects of alkaline extract of <i>Citrus reticulata</i> on pulmonary fibrosis | |
| X.-M. Zhou, G.-Y. Wen, Y. Zhao, Y.-M. Liu, J.-X. Li (China) | 372 |
| Total coumarins from <i>Urtica dentata</i> Hand prevent murine autoimmune diabetes <i>via</i> suppression of the TLR4-signaling pathways | |
| J. Wang, J. Lu, Y. Lan, H. Zhou, W. Li, M. Xiang (China) | 379 |
| Antinociceptive and anti-inflammatory effects of <i>Aloe saponaria</i> Haw on thermal injury in rats | |
| M.A. Silva, G. Trevisan, J.Z. Klafke, M.F. Rossato, C.I.B. Walker, S.M. Oliveira, C.R. Silva, A.A. Boligon, F.C. Flores, C.d.B. Silva, M.L. Athayde, J. Ferreira (Brazil) | 393 |

Continued on next page

Continued from previous page

- Ethanol extract of *Alismatis Rhizoma* reduces acute lung inflammation by suppressing NF- κ B and activating Nrf2
C.W. Han, M.J. Kwun, K.H. Kim, J.-Y. Choi, S.-R. Oh, K.-S. Ahn, J.H. Lee (Republic of Korea), M. Joo (Republic of Korea, USA) 402
- Efficacy of *Adiantum capillus veneris* Linn in chemically induced urolithiasis in rats
A. Ahmed, A. Wadud, N. Jahan, A. Bilal, S. Hajera (India) 411
- Zanthoxylum capense* constituents with antimycobacterial activity against *Mycobacterium tuberculosis* *in vitro* and *ex vivo* within human macrophages
X. Luo, D. Pires (Portugal), J.A. Aínsa, B. Gracia (Spain), N. Duarte, S. Mulhovo (Mozambique), E. Anes, M.-J.U. Ferreira (Portugal) 417
- Ethnopharmacological Communication*
- Participation of extracellular calcium in α -hederin-induced contractions of rat isolated stomach strips
M. Mendel, M. Chłopecka, N. Dziekan, W. Karlik, M. Wiechetek (Poland) 423
- Book Reviews*
- Plants and Humans in the Near East and the Caucasus. Ancient and Traditional Uses of Plants as Food or Medicine. An Ethnobotanical Diachronic Review. Two Volumes. Diego Rivera, Gonzalo Matilla, Concepción Obón, Francisco Alcaraz. Editum (Ediciones de la Universidad de Murcia), Murcia (2011). Volume 1 (p. 341): The Landscapes; The Plants: Ferns and Gymnosperms. Volume 2 (p. 1057): The Plants: Angiosperms. More than 209 tables, 8 figures, appendix and glossary, softcover, ISBN Vol. 1 978-84-15463-05-4, Vol. 2 978-84-15463-06-1. Price: EUR 23.75.
A. Lardos (UK) 427
- Chocolate in Health and Nutrition, Ronald R. Watson, Victor R. Preedy, Sherma Zibadi, (Eds.), 2013. Numerous b&w Illustrations, Bibliography with Each Chapter, Index, Springer (Humana Press), New York, Heidelberg, etc., 553 pp., €169.95, US \$239.00, ISBN: 978-1-61779-802-3 (hardcover); no price given, ISBN: 978-1-61779-803-0 (e-book).
M. Heinrich (United Kingdom) 429
- Christophe Wiart, 2013. Medicinal Plants of China, Korea and Japan—Bioresources for Tomorrow's Drugs and Cosmetics. CRC Press, Boca Raton, FL, USA. 432 pp. (Numerous b&w illustrations, eight colour illustrations, bibliography with each chapter, indexes of common names, medicinal uses, natural products, pharmacological terms, plants. US \$ 149.95 ISBN: 978-1-4398-9911-3 (Hardcover).
M. Heinrich (UK) 430
- Corrigendum*
- Corrigendum to "Antispasmodic Effect of Shakyakukanzoto Extract on Experimental Muscle Cramps *In Vivo*: Role of the Active Constituents of Glycyrrhizae Radix"
K.K. Leea, Y. Omiyab, M. Yuzuriharab, Y. Kaseb, H. Kobayashia (Japan) 431





CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Review

- Chaihu-Shugan-San, an oriental herbal preparation, for the treatment of chronic gastritis: A meta-analysis of randomized controlled trials
F. Qin, J.-Y. Liu, J.-H. Yuan (China) 433

Research Papers

- Evaluation of amentoflavone isolated from *Cnestis ferruginea* Vahl ex DC (Connaraceae) on production of inflammatory mediators in LPS stimulated rat astrocytoma cell line (C6) and THP-1 cells
I.O. Ishola (India, Nigeria), J.P. Chaturvedi, S. Rai, N. Rajasekar (India), O.O. Adeyemi (Nigeria), R. Shukla, T. Narender (India) 440
- Snakebites and ethnobotany in the Eastern region of Antioquia, Colombia—The traditional use of plants
J. Vásquez, S.L. Jiménez, I.C. Gómez, J.P. Key, A.M. Henao, D.M. Marín, J.O. Romero, J.C. Alarcón (Colombia) 449
- Stem-bark of *Terminalia arjuna* attenuates human monocytic (THP-1) and aortic endothelial cell activation
P.K. Kokkiripati, R.V. Kamsala, L. Bashyam, N. Manthapuram, P. Bitla, V. Peddada, A.S. Raghavendra, S.D. Tetali (India) 456
- The medicinal uses of *Callicarpa* L. in traditional Chinese medicine: An ethnopharmacological, phytochemical and pharmacological review
Y. Tu, L. Sun, M. Guo, W. Chen (PR China) 465
- Sutherlandia frutescens* prevents changes in diabetes-related gene expression in a fructose-induced insulin resistant cell model
S. Williams, S. Roux, T. Koekemoer, M. van de Venter, G. Dealtry (South Africa) 482
- Eleutherine indica* L. accelerates *in vivo* cutaneous wound healing by stimulating Smad-mediated collagen production
A. Upadhyay, P. Chattopadhyay, D. Goyary, P.M. Mazumder, V. Veer (India) 490
- Molecular mechanism of anti-inflammatory activity of *Pluchea indica* leaves in macrophages RAW 264.7 and its action in animal models of inflammation
D. Buapool, N. Mongkol, J. Chantimal, S. Roytrakul, E. Srisook, K. Srisook (Thailand) 495
- Gastroprotective activity of ethanolic root extract of *Potentilla fulgens* Wall. ex Hook
D. Laloo, S.K. Prasad, S. Krishnamurthy, S. Hemalatha (India) 505
- Aqueous extract of unripe *Rubus coreanus* fruit attenuates atherosclerosis by improving blood lipid profile and inhibiting NF- κ B activation via phase II gene expression
S. Kim, C.-K. Kim, K.-S. Lee, J.-H. Kim, H. Hwang, D. Jeoung, J. Choe, M.-H. Won, H. Lee, K.-S. Ha, Y.-G. Kwon, Y.-M. Kim (South Korea) 515
- Dillenia suffruticosa* exhibited antioxidant and cytotoxic activity through induction of apoptosis and G₂/M cell cycle arrest
N. Armania, L.S. Yazan, S.N. Musa, I.S. Ismail, J.B. Foo, K.W. Chan, H. Noreen, A.H. Hisyam, S. Zulfahmi, M. Ismail (Malaysia) 525
- Hepatic, testicular and spermatozoa antioxidant status in rats chronically treated with *Garcinia kolaseed*
E.O. Farombi, I.A. Adedara, A.B. Oyenih, E. Ekakitie, S. Kehinde (Nigeria) 536
- Paenol suppresses oxidized low-density lipoprotein induced endothelial cell apoptosis via activation of LOX-1/p38MAPK/NF- κ B pathway
M.-h. Bao, Y.-w. Zhang, H.-h. Zhou (China) 543
- Cytotoxic sesquiterpene lactones from the leaves of *Vernonia guineensis* Benth. (Asteraceae)
N.J. Toyang (USA), H.K. Wabo (Cameroon), E.N. Ateh, H. Davis (USA), P. Tane, L.B. Sondengam (Cameroon), J. Bryant (USA), R. Verpoorte (The Netherlands) 552

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|---|-----|
| <i>In vivo</i> antimalarial activity, toxicity and phytochemical screening of selected antimalarial plants M.F. Musila, S.F. Dossaji, J.M. Nguta, C.W. Lukhoba, J.M. Munyao (Kenya) | 557 |
| Development and assessment of a complete-detoxication strategy for <i>Fuzi</i> (lateral root of <i>Aconitum carmichaeli</i>) and its application in rheumatoid arthritis therapy P. Tong, C. Wu, X. Wang, H. Hu, H. Jin, C. Li, Y. Zhu, L. Shan, L. Xiao (China) | 562 |
| A metabolic profiling analysis of the acute hepatotoxicity and nephrotoxicity of Zhusha Anshen Wan compared with cinnabar in rats using ^1H NMR spectroscopy H. Wang, J. Bai, G. Chen, W. Li, R. Xiang, G. Su, Y. Pei (PR China) | 572 |
| New claims in folk veterinary medicines from Uttar Pradesh, India R. Kumar, K.A. Bharati (India) | 581 |
| Effect of a Congolese herbal medicine used in sickle cell anemia on the expression of plasminogen activators in human coronary aortic endothelial cells culture M.M. Nsimba (Japan, Democratic Republic of the Congo), C. Yamamoto (Japan), J.N. Lami (Democratic Republic of the Congo), Y. Hayakawa, T. Kaji (Japan) | 594 |
| Kami-ondam-tang, a traditional herbal prescription, attenuates the prepulse inhibition deficits and cognitive impairments induced by MK-801 in mice H.K. Oh, S.J. Park, S.G. Bae, M.J. Kim, J.H. Jang, Y.J. Ahn, H. Woo, G. Kwon, J.H. Ryu (Republic of Korea) | 600 |
| Anti-inflammatory and immune-modulating effect of <i>Ulmus davidianus</i> var. <i>japonica</i> Nakai extract on a macrophage cell line and immune cells in the mouse small intestine E.-H. Lee, C.-W. Park, Y.-J. Jung (Republic of Korea) | 608 |
| Beneficial therapeutic effect of Chinese herbal Bushen formula on CHB patients with mildly elevated alanine aminotransferase by down-regulating CD4+CD25+T cells M. Li (China), X.-H. Sun (P.R. China), Z.-H. Zhou, Z. Yu (China), S.-G. Jin, X.-J. Zhu (P.R. China), Y.-Q. Gao (China, P.R. China) | 614 |
| Vasorelaxant and antihypertensive effects of methanolic extracts from <i>Hymenocardia acida</i> Tul F. Nsuadi Manga (Belgium, D.R. Congo), C. El Khattabi, J. Fontaine, G. Berkenboom, P. Duez, C. Noyon, P. Van Antwerpen (Belgium), J. Lami Nzunzu (D.R. Congo), S. Pochet (Belgium) | 623 |
| <i>Ethnopharmacological Communications</i> | |
| Synergistic effect of <i>Gentiana lutea</i> L. on methyl methanesulfonate genotoxicity in the <i>Drosophila</i> wing spot test A. Patenković, M. Stamenković-Radak, D. Nikolić, T. Marković, M. Anđelković (Serbia) | 632 |
| AP-1 pathway-targeted inhibition of inflammatory responses in LPS-treated macrophages and EtOH/HCl-treated stomach by <i>Archidendron clypearia</i> methanol extract W.S. Yang, D. Jeong, G. Nam, Y.-S. Yi, D.H. Yoon, T.W. Kim, Y.C. Park, H. Hwang, M.H. Rhee, S. Hong, J.Y. Cho (Republic of Korea) | 637 |



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- Nyctanthes arbor-tristis* Linn—A critical ethnopharmacological review
J. Agrawal, A. Pal (India) 645
- Perceived health properties of wild and cultivated food plants in local and popular traditions of Italy: A review
P.M. Guarrera (Italy), V. Savo (Italy, Canada) 659
- A review of the medicinal potentials of plants of the genus *Vernonia* (Asteraceae)
N.J. Toyang (USA), R. Verpoorte (The Netherlands) 681

Research Papers

- 12-Deoxyphorbol 13-palmitate inhibit VEGF-induced angiogenesis via suppression of VEGFR-2-signaling pathway
H.-Y. Xu, Y.-M. Pan, Z.-W. Chen, Y. Lin, L.-H. Wang, Y.-H. Chen, T.-T. Jie, Y.-Y. Lu, J.-C. Liu (PR China) 724
- Effects of unprocessed versus vinegar-processed *Schisandra chinensis* on the activity and mRNA expression of CYP1A2, CYP2E1 and CYP3A4 enzymes in rats
T. Su, C. Mao, F. Yin, Z. Yu, Y. Lin, Y. Song, T. Lu (PR China) 734
- Investigation on modulation of human *P-gp* by multiple doses of Radix Astragali extract granules using fexofenadine as a phenotyping probe
Q. Zhou, Z. Ye, Z. Ruan, S. Zeng (China) 744
- Intestinal anti-inflammatory activity of hydroalcoholic extracts of *Phlomis purpurea* L. and *Phlomis lychnitis* L. in the trinitrobenzenesulphonic acid model of rat colitis
F. Algieri, P. Zorrilla, A. Rodriguez-Nogales, N. Garrido-Mesa, Ó. Bañuelos, M.R. González-Tejero, M. Casares-Porcel, J. Molero-Mesa, A. Zarzuelo, M.P. Utrilla, M.E. Rodriguez-Cabezas, J. Galvez (Spain) 750
- A new labdane diterpenoid with anti-inflammatory activity from *Thuja orientalis*
T.-H. Kim, H. Li, Q. Wu, H.J. Lee, J.-H. Ryu (Republic of Korea) 760
- Ethnobotanical survey of malaria prophylactic remedies in Odisha, India
P.B. Nagendrappa, M.P. Naik, U. Payyappallimana (India) 768
- Systems approaches and polypharmacology for drug discovery from herbal medicines: An example using licorice
H. Liu, J. Wang, W. Zhou, Y. Wang, L. Yang (China) 773
- Hepatoprotective evaluation of the total flavonoids extracted from flowers of *Abelmoschus manihot* (L.) Medic: *In vitro* and *in vivo* studies
G. Ai, Q. Liu, W. Hua, Z. Huang, D. Wang (PR China) 794
- Ethnobotanical study on traditional use of medicinal plants in South-Western Serbia, Zlatibor district
K. Šavikin, G. Zdunić, N. Menković, J. Živković, N. Čujić, M. Tereščenko, D. Bigović (Serbia) 803
- Alpha-amylase inhibitory activity of two *Anthocleista* species and *in vivo* rat model anti-diabetic activities of *Anthocleista djalensis* extracts and fractions
O.O. Olubomehin, K.A. Abo, E.O. Ajaiyeoba (Nigeria) 811
- Subchronic exposure to mitragynine, the principal alkaloid of *Mitragyna speciosa*, in rats
A. Sabetghadam, S. Ramanathan, S. Sasidharan, S.M. Mansor (Malaysia) 815
- Tyrosinase modulation by five Rwandese herbal medicines traditionally used for skin treatment
L. Kamagaju (Belgium, Rwanda), R. Morandini (Belgium), E. Bizuru (Butare-Rwanda), P. Nyetera, J.B. Nduwayezu (Rwanda), C. Stévigny, G. Ghanem, P. Duez (Belgium) 824

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|---|-----|
| Khat dependence syndrome: A cross sectional preliminary evaluation amongst UK-resident Yemeni khat chewers S. Kassim, R. Croucher (UK), M. al'Absi (USA) | 835 |
| Does the selection of medicinal plants by Brazilian local populations suffer taxonomic influence? P.M.d. Medeiros (Brazil), A.H. Ladio (Argentina), A.M.M. Santos, U.P.d. Albuquerque (Brazil) | 842 |
| Fuyuan Decoction inhibits nitric oxide production via inactivation of nuclear factor- κ B in SW1353 chondrosarcoma cells P. Jia, G. Chen, G. Zhou, Y. Zhong, R. Li (PR China) | 853 |
| <i>In vivo</i> and <i>in vitro</i> antidiabetic effect of <i>Cistus laurifolius</i> L. and detection of major phenolic compounds by UPLC-TOF-MS analysis N. Orhan, M. Aslan, M. Şüküroğlu, D. Deliorman Orhan (Turkey) | 859 |
| A polyphenol-rich extract from <i>Chaenomeles sinensis</i> (Chinese quince) inhibits influenza A virus infection by preventing primary transcription <i>in vitro</i> R. Sawai-Kuroda, S. Kikuchi, Y.K. Shimizu, Y. Sasaki, K. Kuroda, T. Tanaka, T. Yamamoto, K. Sakurai, K. Shimizu (Japan) | 866 |
| <i>Ethnopharmacological Communication</i> | |
| Dipterocarpus tuberculatus ethanol extract strongly suppresses <i>in vitro</i> macrophage-mediated inflammatory responses and <i>in vivo</i> acute gastritis W.S. Yang, B.-H. Lee, S.H. Kim, H.G. Kim, Y.-S. Yi (Republic of Korea), K.M. Htwe (Myanmar), Y.-D. Kim, K.D. Yoon, S. Hong, W.-S. Lee, J.Y. Cho (Republic of Korea) | 873 |
| <i>Corrigendum</i> | |
| Corrigendum to "The aerial part of <i>Taraxacum coreanum</i> extract has an anti-inflammatory effect on peritoneal macrophages <i>in vitro</i> and increases survival in a mouse model of septic shock" M.-H. Lee, H. Kang, K. Lee, G. Yang, I. Ham, Y. Bu, H. Kim, H.-Y. Choi (Republic of Korea) | 881 |



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- The genus *Cynomorium* in China: An ethnopharmacological and phytochemical review
Z. Cui, Z. Guo, J. Miao, Z. Wang, Q. Li, X. Chai, M. Li (China) 1
- Hyptis verticillata* Jacq: A review of its traditional uses, phytochemistry, pharmacology and toxicology
D. Picking, R. Delgoda (Jamaica), I. Boulogne (Guadeloupe, France), S. Mitchell (Jamaica) 16
- The genus *Rhododendron*: An ethnopharmacological and toxicological review
R. Popescu, B. Kopp (Austria) 42

Research Papers

- Anti-inflammatory properties of phenolic lactones isolated from *Caesalpinia paraguariensis* stem bark
M.A. Sgariglia, J.R. Soberón (Argentina), A. Poveda Cabanes (Spain), D.A. Sampietro, M.A. Vattuone (Argentina) 63
- High-dose chlorogenic acid induces inflammation reactions and oxidative stress injury in rats without implication of mast cell degranulation
W.-Y. Du, C. Chang, Y. Zhang, Y.-Y. Liu, K. Sun, C.-S. Wang, M.-X. Wang, Y. Liu, F. Wang, J.-Y. Fan, P.-T. Li, J.-Y. Han (China) 74
- Hemidesmus indicus* induces apoptosis as well as differentiation in a human promyelocytic leukemic cell line
L. Ferruzzi, E. Turrini, S. Burattini, E. Falcieri, F. Poli, M. Mandrone, G. Sacchetti, M. Tacchini, A. Guerrini, R. Gotti, P. Hrelia, G. Cantelli-Forti, C. Fimognari (Italy) 84
- Bioprospecting: Evolutionary implications from a post-olmec pharmacopoeia and the relevance of widespread taxa
M. Leonti, S. Cabras (Italy), M. Eugenia Castellanos (Spain), A. Challenger (Mexico), J. Gertsch (Switzerland), L. Casu (Italy) 92
- Antidepressant-like effect of flavonoids extracted from *Apocynum venetum* leaves on brain monoamine levels and dopaminergic system
M. Zheng, Y. Fan, D. Shi, C. Liu (China) 108
- Glycyrrhizic acid as the antiviral component of *Glycyrrhiza uralensis* Fisch. against coxsackievirus A16 and enterovirus 71 of hand foot and mouth disease
J. Wang, X. Chen, W. Wang, Y. Zhang, Z. Yang, Y. Jin, H. M. Ge, E. Li, G. Yang (China) 114
- The anti-arthritic effects of *Aconitum vilmorinianum*, a folk herbal medicine in Southwestern China
M. Li, J. He, L.-L. Jiang, E. Sau-Kuen Ng, H. Wang, F. Fu-Yuen Lam, Y.-M. Zhang, N.-H. Tan, P.-C. Shaw (PR China) 122
- Study on intestinal absorption and pharmacokinetic characterization of diester diterpenoid alkaloids in precipitation derived from Fuzi-Gancao herb-pair decoction for its potential interaction mechanism investigation
J.M. Zhang, W. Liao, Y.-x. He, Y. He, D. Yan, C.M. Fu (PR China) 128
- Traditional uses of herbal vapour therapy in Manipur, North East India: An ethnobotanical survey
S.S. Ningthoujam, A.D. Talukdar, K.S. Potsangbam, M.D. Choudhury (India) 136
- Ethnopharmacological survey of medicinal plants used by traditional healers in Bangladesh for gastrointestinal disorders
M.F. Kadir, M.S. Bin Sayeed, M.M.K. Mia (Bangladesh) 148
- Preclinical toxicological evaluations of the sclerotium of *Lignosus rhinocerus* (Cooke), the Tiger Milk mushroom
S.S. Lee, F.K. Enchang, N.H. Tan, S.Y. Fung, J. Pailoor (Malaysia) 157
- Purified active lotus plumule (*Nelumbo nucifera* Gaertn) polysaccharides exert anti-inflammatory activity through decreasing Toll-like receptor-2 and -4 expressions using mouse primary splenocytes
C.-H. Liao, J.-Y. Lin (Republic of China (ROC)) 164

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|--|-----|
| Identification of the major metabolites of hyperoside produced by the human intestinal bacteria using the ultra performance liquid chromatography/quadrupole-time-of-flight mass spectrometry J. Yang, D. Qian, J. Guo, S. Jiang, E.-x. Shang, J.-a. Duan, J. Xu (PR China) | 174 |
| Amazonian Brazilian medicinal plants described by C.F.P. von Martius in the 19th century U.B. Breitbach, M. Niehues, N.P. Lopes, J.E.Q. Faria, M.G.L. Brandão (Brazil) | 180 |
| Yews (<i>Taxus</i>) along the Hindu Kush-Himalayan region: Exploring the ethnopharmacological relevance among communities of Mongol and Caucasian origins R.C. Poudel (China, UK), L.-M. Gao (China), M. Möller (China, UK), S.R. Baral (Nepal), Y. Uprety (Canada), J. Liu, D.-Z. Li (China) | 190 |
| Anti- <i>Helicobacter pylori</i> compounds from the ethanol extracts of <i>Geranium wilfordii</i> X.-Q. Zhang, H.-M. Gu, X.-Z. Li, Z.-N. Xu, Y.-S. Chen, Y. Li (PR China) | 204 |
| α -Cyperone, isolated from the rhizomes of <i>Cyperus rotundus</i> , inhibits LPS-induced COX-2 expression and PGE ₂ production through the negative regulation of NF κ B signalling in RAW 264.7 cells S.-H. Jung, S.J. Kim, B.-G. Jun, K.-T. Lee, S.-P. Hong, M.S. Oh, D.S. Jang, J.-H. Choi (Republic of Korea) | 208 |
| Rutaecarpine effects on expression of hepatic phase-1, phase-2 metabolism and transporter genes as a basis of herb-drug interactions Q.-N. Zhu, D. Zhang, T. Jin, Q. Wu (PR China), J. Liu (PR China, USA), Y.F. Lu (PR China) | 215 |
| Antiprotozoal activity of <i>Khaya anthotheca</i> , (Welv.) C.D.C. a plant used by chimpanzees for self-medication C.J.D. Obbo, B. Makanga (Uganda), D.A. Mulholland (South Africa, United Kingdom), P.H. Coombes (South Africa), R. Brun (Switzerland) | 220 |
| Gender-dependent pharmacokinetics of lignans in rats after single and multiple oral administration of <i>Schisandra chinensis</i> extract H. Xu, J. Gan, X. Liu, R. Wu, Y. Jin (China), M. Li (UK), B. Yuan (China) | 224 |
| The Canadian medicinal plant <i>Heracleum maximum</i> contains antimycobacterial diynes and furanocoumarins T.O' Neill, J.A. Johnson, D. Webster, C.A. Gray (Canada) | 232 |
| Antiviral effects of modified Dingchuan decoction against respiratory syncytial virus infection in vitro and in an immunosuppressive mouse model L. Li, C.-H. Yu, H.-Z. Ying, J.-M. Wu (China) | 238 |
| Essential oil of <i>Perilla frutescens</i> -induced change in hippocampal expression of brain-derived neurotrophic factor in chronic unpredictable mild stress in mice L.-T. Yi, J. Li, D. Geng, B.B. Liu, Y. Fu, J.Q. Tu, Y. Liu, L.-J. Weng (PR China) | 245 |
| <i>Ethnopharmacological Communications</i> | |
| Clinical research on traditional drugs and food items—the potential of comparative effectiveness research for interdisciplinary research C.M. Witt (Germany) | 254 |
| Antibacterial and cytotoxic activity of isoprenylated coumarin mammea A/AA isolated from <i>Mammea africana</i> C. Canning, S. Sun, X. Ji, S. Gupta, K. Zhou (USA) | 259 |
| <i>Corrigendum</i> | |
| Corrigendum to “Chinese herbal medicine in treatment of diabetic peripheral neuropathy: A systematic review and meta-analysis” H.-B. Xu, R.-H. Jiang, X.-Z. Chen, L. Li (China) | 263 |



CONTENTS

Cited in: *Agricola*; *Biosis/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Review

- Mycology, cultivation, traditional uses, phytochemistry and pharmacology of *Wolfiporia cocos* (Schwein.) Ryvar den et Gilb.:
A review
Y.-Z. Wang, J. Zhang, Y.-L. Zhao, T. Li, T. Shen, J.-Q. Li, W.-Y. Li, H.-G. Liu (China) 265

Research Papers

- Metabolite profiling of polyphenols in a *Terminalia chebula* Retzius ayurvedic decoction and evaluation of its chemopreventive activity
F. Pellati, R. Bruni, D. Righi, A. Grandini, M. Tognolini, F. Pio Prencipe, F. Poli, S. Benvenuti, D. Del Rio, D. Rossi (Italy) 277
- Effects of *Hominis placenta* on LPS-induced cell toxicity in BV2 microglial cells
K.-W. Lee, H.M. Ji, D.W. Kim, S.-M. Choi, S. Kim, E.J. Yang (Republic of Korea) 286
- Antinociceptive, neurobehavioral and antioxidant effects of *Eupatorium triplinerve* Vahl on rats
A.S. Melo, M.C. Monteiro, J.B. da Silva, F.R. de Oliveira, J.L.F. Vieira, M.A. de Andrade, A.C. Baetas, J.T. Sakai, F.A. Ferreira, P.J.d.C. Sousa, C.d.S.F. Maia (Brazil) 293
- Antidiabetic activity of *Ficus amplissima* Smith. bark extract in streptozotocin induced diabetic rats
K. Arunachalam, T. Parimelazhagan (India) 302
- Huangkui capsule, an extract from *Abelmoschus manihot* (L.) medic, ameliorates adriamycin-induced renal inflammation and glomerular injury via inhibiting p38MAPK signaling pathway activity in rats
Y. Tu, W. Sun, Y.-G. Wan, X.-Y. Che, H.-P. Pu, X.-j. Yin, H.-L. Chen, X.-J. Meng, Y.-R. Huang, X.-M. Shi (China) 311
- Water extract of *Cinnamomum cassia* Blume inhibited human respiratory syncytial virus by preventing viral attachment, internalization, and syncytium formation
C.F. Yeh, J.S. Chang, K.C. Wang, D.E. Shieh, L.C. Chiang (Taiwan) 321
- Inhibitory effects of the root extract of *Litsea cubeba* (lour.) pers. on adjuvant arthritis in rats
B. Lin, H. Zhang, X.-X. Zhao (PR China), K. Rahman (UK), Y. Wang, X.-Q. Ma, C.-J. Zheng, Q.-Y. Zhang, T. Han, L.-P. Qin (PR China) 327
- Stilbene glucoside inhibits the glucuronidation of emodin in rats through the down-regulation of UDP-glucuronosyltransferases 1A8: Application to a drug–drug interaction study in *Radix Polygoni Multiflori*
J. Ma, L. Zheng, T. Deng, C.-L. Li, Y.-S. He, H.-J. Li, P. Li (China) 335
- Anti-inflammatory compounds of “Qin-Jiao”, the roots of *Gentiana dahurica* (Gentianaceae)
Y.-M. Wang, M. Xu, D. Wang, C.-R. Yang, Y. Zeng, Y.-J. Zhang (China) 341
- Myocardial lipidomics profiling delineate the toxicity of traditional Chinese medicine *Aconiti Lateralis radix praeparata*
Y. Cai, Y. Gao, G. Tan, S. Wu, X. Dong, Z. Lou, Z. Zhu, Y. Chai (PR China) 349
- Fishing and knockout of bioactive compounds using a combination of high-speed counter-current chromatography (HSCCC) and preparative HPLC for evaluating the holistic efficacy and interaction of the components of *Herba Epimedii*
J. Jin, Y. Li, E. Kipletting Tanui, L. Han, Y. Jia, L. Zhang, Y. Wang, X. Zhang, Y. Zhang (China) 357
- Lifespan extension by *n*-butanol extract from seed of *Platyclusus orientalis* in *Caenorhabditis elegans*
H. Liu (PR China, United States), F. Liang, W. Su, N. Wang, M. Lv, P. Li, Z. Pei, Y. Zhang (PR China), X.-Q. Xie, L. Wang (United States), Y. Wang (PR China) 366

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|---|-----|
| Anti-snake venom activities of ethanolic extract of fruits of <i>Piper longum</i> L. (Piperaceae) against Russell's viper venom: Characterization of piperine as active principle | 373 |
| P.A. Shenoy, S.S. Nipate, J.M. Sonpetkar, N.C. Salvi, A.B. Waghmare, P.D. Chaudhari (India) | |
| Gastroprotective activity of the ethanol extract from the inner bark of <i>Caesalpinia pyramidalis</i> in rats | 383 |
| A.R.S. Ribeiro, P.B.F. Diniz, C.S. Estevam, M.S. Pinheiro, R.L.C. Albuquerque-Júnior, S.M. Thomazzi (Brazil) | |
| Repeated-dose toxicological studies of <i>Tithonia diversifolia</i> (Hemsl.) A. gray and identification of the toxic compounds | 389 |
| F.D. Passoni, R.B. Oliveira, D.A. Chagas-Paula, L. Gobbo-Neto, F.B. Da Costa (Brazil) | |
| Antioxidant and anti-inflammatory activities of aqueous extract of <i>Centipeda minima</i> | 395 |
| S.-S. Huang, C.-S. Chiu, T.-H. Lin, M.-M. Lee, C.-Y. Lee, S.-J. Chang, W.-C. Hou, G.-J. Huang, J.-S. Deng (Taiwan) | |
| Dragon's blood <i>Croton palanostigma</i> induces genotoxic effects in mice | 406 |
| E.L. Maistro, G. Ganthous, M.d.S. Machado, T. Zermiani, S.F.d. Andrade, P.C.P. Rosa, F.F. Perazzo (Brazil) | |
| Anxiolytic-like effect of lavender essential oil inhalation in mice: Participation of serotonergic but not GABA _A /benzodiazepine neurotransmission | 412 |
| L.R. Chioca, M.M. Ferro, I.P. Baretta, S.M. Oliveira, C.R. Silva, J. Ferreira, E.M. Losso, R. Andreatini (Brazil) | |
| The incorporation of Brazilian propolis into collagen-based dressing films improves dermal burn healing | 419 |
| E.B. de Almeida, J. Cordeiro Cardoso, A. Karla de Lima, N.L. de Oliveira, N.T. de Pontes-Filho, S. Oliveira Lima, I.C. Leal Souza, R.L.C. de Albuquerque-Júnior (Brazil) | |
| Identification of NF- κ B Inhibitors in Xuebijing injection for sepsis treatment based on bioactivity-integrated UPLC-Q/TOF | 426 |
| M. Jiang, M. Zhou, Y. Han, L. Xing, H. Zhao, L. Dong, G. Bai, G. Luo (People's Republic of China) | |
| Effect of Siam weed extract and its bioactive component scutellarein tetramethyl ether on anti-inflammatory activity through NF- κ B pathway | 434 |
| H. Pandith (USA, Thailand), X. Zhang (USA), S. Thongpraditchote, Y. Wongkrajang, W. Gritsanapan (Thailand), S.J. Baek (USA) | |
| Anti-inflammatory activity of ethyl acetate fraction of the seeds of <i>Brucea Javanica</i> | 442 |
| J. Yang, S. Li, C. Xie, H. Ye, H. Tang, L. Chen, A. Peng (China) | |
| Antagonism of Cortex Periplocae extract-induced catecholamines secretion by Panax notoginseng saponins in cultured bovine adrenal medullary cells by drug combinations | 447 |
| H. Guo, H. Mao, G. Pan, H. Zhang, G. Fan, W. Li, K. Zhou, Y. Zhu (China), N. Yanagihara (Japan), X. Gao (China) | |
| Activating glucocorticoid receptor-ERK signaling pathway contributes to ginsenoside Rg1 protection against β -amyloid peptide-induced human endothelial cells apoptosis | 456 |
| J. Yan, Q. Liu, Y. Dou (China), Y. Hsieh (Taiwan), Y. Liu, R. Tao, D. Zhu, Y. Lou (China) | |
| Clinical trial for evaluating the effectiveness and tolerability of topical <i>Sphaeralcea angustifolia</i> treatment in hand osteoarthritis | 467 |
| O. Romero-Cerecero, M. Meckes-Fischer, A. Zamilpa, J. Enrique Jiménez-Ferrer, P. Nicasio-Torres, D. Pérez-García, J. Tortoriello (Mexico) | |
| Assessment of the genotoxic and mutagenic properties of <i>Himatanthus articulatus</i> bark extracts used as phytotherapeutic drug in the Amazon | 474 |
| S.d.O. Rebouças, J. da Silva, R.S. Bertoni, N. Decker, M.S.d. Santos, R.R. Rossatto, D.S. Corrêa, A.B.F. Ferraz (Brazil) | |
| Xiao-Qing-Long-Tang (Sho-seiryu-to) inhibited cytopathic effect of human respiratory syncytial virus in cell lines of human respiratory tract | 481 |
| J.S. Chang, C.F. Yeh, K.C. Wang, D.E. Shieh, M.H. Yen, L.C. Chiang (Taiwan) | |
| Tanshinone IIA, a constituent of Danshen, inhibits the release of glutamate in rat cerebrocortical nerve terminals | 488 |
| T.Y. Lin, C.W. Lu, S.-K. Huang, S.-J. Wang (Taiwan) | |
| Isolation and characterization of an antibacterial biflavonoid from an African chewing stick <i>Garcinia kola</i> Heckel (<i>Clusiaceae</i>) | 497 |
| H.-X. Xu, S. Mughal, O. Taiwo, S.F. Lee (Canada) | |
| Pharmacokinetics of 8- <i>O</i> -acetylharpagide and harpagide after oral administration of <i>Ajuga decumbens</i> Thunb extract in rats | 503 |
| B. Wen, R. He, P. Li, Q. Xu, Y. Lu, B. Peng, J. Li (PR China) | |
| Ginsenoside Re reduces insulin resistance through activation of PPAR- γ pathway and inhibition of TNF- α production | 509 |
| Y. Gao, M.-f. Yang, Y.-p. Su, H.-m. Jiang, X.-j. You, Y.-j. Yang, H.-l. Zhang (People's Republic of China) | |
| Antioxidant and anti-inflammatory activities of the phenolic extracts of <i>Sapium sebiferum</i> (L.) Roxb. leaves | 517 |
| R. Fu, Y.-T. Zhang, Y.-R. Guo, Q.-L. Huang, T. Peng, Y. Xu, L. Tang, F. Chen (PR China) | |
| <i>Ethnopharmacological Communications</i> | |
| Anti-inflammatory effect of <i>O</i> -methylated flavonol 2-(3,4-dihydroxy-phenyl)-3,5-dihydroxy-7-methoxy-chromen-4-one obtained from <i>Cassia sophera</i> Linn in rats | 525 |
| A. Mondal, D. Rajalingam, T. Kumar Maity (India) | |
| The effect of the extract of <i>Crocus sativus</i> on tracheal responsiveness and plasma levels of IL-4, IFN- γ , total NO and nitrite in ovalbumin sensitized Guinea-pigs | 530 |
| G. Byrami, M.H. Boskabady, S. Jalali, T. Farkhondeh (IR Iran) | |

Continued on next page

Continued from previous page

- Vasorelaxant effects and mechanisms of action of *Heracleum sphondylium* L. (Apiaceae) in rat thoracic aorta
F. Senejoux, C. Demougeot (France), M. Cuciureanu, A. Miron, R. Cuciureanu (Romania), A. Berthelot, C. Girard-Thernier (France) 536
- Protective effects of fractions from *Pseudostellaria heterophylla* against cobalt chloride-induced hypoxic injury in H9c2 cell
Z. Wang, S.-G. Liao, Y. He, J. Li, R.-F. Zhong, X. He, Y. Liu, T.-T. Xiao, Y.-Y. Lan, Q.-D. Long, Y.-L. Wang (PR China) 540
- Corrigendum*
- Corrigendum to “*Indigo naturalis* upregulates claudin-1 expression in human keratinocytes and psoriatic lesions”
Y.-K. Lin, H.-W. Chen, Y.-L. Leu, Y.-L. Yang, Y. Fang, J.-H. Su Pang, T.-L. Hwang (Taiwan) 546



CONTENTS

Cited in: *Agricola*; *Biosis/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- The genus *Cynomorium* in China: An ethnopharmacological and phytochemical review
Z. Cui, Z. Guo, J. Miao, Z. Wang, Q. Li, X. Chai, M. Li (China) 1
- Hyptis verticillata* Jacq: A review of its traditional uses, phytochemistry, pharmacology and toxicology
D. Picking, R. Delgoda (Jamaica), I. Boulogne (Guadeloupe, France), S. Mitchell (Jamaica) 16
- The genus *Rhododendron*: An ethnopharmacological and toxicological review
R. Popescu, B. Kopp (Austria) 42

Research Papers

- Anti-inflammatory properties of phenolic lactones isolated from *Caesalpinia paraguariensis* stem bark
M.A. Sgariglia, J.R. Soberón (Argentina), A. Poveda Cabanes (Spain), D.A. Sampietro, M.A. Vattuone (Argentina) 63
- High-dose chlorogenic acid induces inflammation reactions and oxidative stress injury in rats without implication of mast cell degranulation
W.-Y. Du, C. Chang, Y. Zhang, Y.-Y. Liu, K. Sun, C.-S. Wang, M.-X. Wang, Y. Liu, F. Wang, J.-Y. Fan, P.-T. Li, J.-Y. Han (China) 74
- Hemidesmus indicus* induces apoptosis as well as differentiation in a human promyelocytic leukemic cell line
L. Ferruzzi, E. Turrini, S. Burattini, E. Falcieri, F. Poli, M. Mandrone, G. Sacchetti, M. Tacchini, A. Guerrini, R. Gotti, P. Hrelia, G. Cantelli-Forti, C. Fimognari (Italy) 84
- Bioprospecting: Evolutionary implications from a post-olmec pharmacopoeia and the relevance of widespread taxa
M. Leonti, S. Cabras (Italy), M. Eugenia Castellanos (Spain), A. Challenger (Mexico), J. Gertsch (Switzerland), L. Casu (Italy) 92
- Antidepressant-like effect of flavonoids extracted from *Apocynum venetum* leaves on brain monoamine levels and dopaminergic system
M. Zheng, Y. Fan, D. Shi, C. Liu (China) 108
- Glycyrrhizic acid as the antiviral component of *Glycyrrhiza uralensis* Fisch. against coxsackievirus A16 and enterovirus 71 of hand foot and mouth disease
J. Wang, X. Chen, W. Wang, Y. Zhang, Z. Yang, Y. Jin, H. M. Ge, E. Li, G. Yang (China) 114
- The anti-arthritic effects of *Aconitum vilmorinianum*, a folk herbal medicine in Southwestern China
M. Li, J. He, L.-L. Jiang, E. Sau-Kuen Ng, H. Wang, F. Fu-Yuen Lam, Y.-M. Zhang, N.-H. Tan, P.-C. Shaw (PR China) 122
- Study on intestinal absorption and pharmacokinetic characterization of diester diterpenoid alkaloids in precipitation derived from Fuzi-Gancao herb-pair decoction for its potential interaction mechanism investigation
J.M. Zhang, W. Liao, Y.-x. He, Y. He, D. Yan, C.M. Fu (PR China) 128
- Traditional uses of herbal vapour therapy in Manipur, North East India: An ethnobotanical survey
S.S. Ningthoujam, A.D. Talukdar, K.S. Potsangbam, M.D. Choudhury (India) 136
- Ethnopharmacological survey of medicinal plants used by traditional healers in Bangladesh for gastrointestinal disorders
M.F. Kadir, M.S. Bin Sayeed, M.M.K. Mia (Bangladesh) 148
- Preclinical toxicological evaluations of the sclerotium of *Lignosus rhinocerus* (Cooke), the Tiger Milk mushroom
S.S. Lee, F.K. Enchang, N.H. Tan, S.Y. Fung, J. Pailoor (Malaysia) 157
- Purified active lotus plumule (*Nelumbo nucifera* Gaertn) polysaccharides exert anti-inflammatory activity through decreasing Toll-like receptor-2 and -4 expressions using mouse primary splenocytes
C.-H. Liao, J.-Y. Lin (Republic of China (ROC)) 164

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|--|-----|
| Identification of the major metabolites of hyperoside produced by the human intestinal bacteria using the ultra performance liquid chromatography/quadrupole-time-of-flight mass spectrometry J. Yang, D. Qian, J. Guo, S. Jiang, E.-x. Shang, J.-a. Duan, J. Xu (PR China) | 174 |
| Amazonian Brazilian medicinal plants described by C.F.P. von Martius in the 19th century U.B. Breitbach, M. Niehues, N.P. Lopes, J.E.Q. Faria, M.G.L. Brandão (Brazil) | 180 |
| Yews (<i>Taxus</i>) along the Hindu Kush-Himalayan region: Exploring the ethnopharmacological relevance among communities of Mongol and Caucasian origins R.C. Poudel (China, UK), L.-M. Gao (China), M. Möller (China, UK), S.R. Baral (Nepal), Y. Uprety (Canada), J. Liu, D.-Z. Li (China) | 190 |
| Anti- <i>Helicobacter pylori</i> compounds from the ethanol extracts of <i>Geranium wilfordii</i> X.-Q. Zhang, H.-M. Gu, X.-Z. Li, Z.-N. Xu, Y.-S. Chen, Y. Li (PR China) | 204 |
| α -Cyperone, isolated from the rhizomes of <i>Cyperus rotundus</i> , inhibits LPS-induced COX-2 expression and PGE ₂ production through the negative regulation of NF κ B signalling in RAW 264.7 cells S.-H. Jung, S.J. Kim, B.-G. Jun, K.-T. Lee, S.-P. Hong, M.S. Oh, D.S. Jang, J.-H. Choi (Republic of Korea) | 208 |
| Rutacearpine effects on expression of hepatic phase-1, phase-2 metabolism and transporter genes as a basis of herb-drug interactions Q.-N. Zhu, D. Zhang, T. Jin, Q. Wu (PR China), J. Liu (PR China, USA), Y.F. Lu (PR China) | 215 |
| Antiprotozoal activity of <i>Khaya anthotheca</i> , (Welv.) C.D.C. a plant used by chimpanzees for self-medication C.J.D. Obbo, B. Makanga (Uganda), D.A. Mulholland (South Africa, United Kingdom), P.H. Coombes (South Africa), R. Brun (Switzerland) | 220 |
| Gender-dependent pharmacokinetics of lignans in rats after single and multiple oral administration of <i>Schisandra chinensis</i> extract H. Xu, J. Gan, X. Liu, R. Wu, Y. Jin (China), M. Li (UK), B. Yuan (China) | 224 |
| The Canadian medicinal plant <i>Heracleum maximum</i> contains antimycobacterial diynes and furanocoumarins T.O' Neill, J.A. Johnson, D. Webster, C.A. Gray (Canada) | 232 |
| Antiviral effects of modified Dingchuan decoction against respiratory syncytial virus infection in vitro and in an immunosuppressive mouse model L. Li, C.-H. Yu, H.-Z. Ying, J.-M. Wu (China) | 238 |
| Essential oil of <i>Perilla frutescens</i> -induced change in hippocampal expression of brain-derived neurotrophic factor in chronic unpredictable mild stress in mice L.-T. Yi, J. Li, D. Geng, B.B. Liu, Y. Fu, J.Q. Tu, Y. Liu, L.-J. Weng (PR China) | 245 |
| <i>Ethnopharmacological Communications</i> | |
| Clinical research on traditional drugs and food items—the potential of comparative effectiveness research for interdisciplinary research C.M. Witt (Germany) | 254 |
| Antibacterial and cytotoxic activity of isoprenylated coumarin mammea A/AA isolated from <i>Mammea africana</i> C. Canning, S. Sun, X. Ji, S. Gupta, K. Zhou (USA) | 259 |
| <i>Corrigendum</i> | |
| Corrigendum to “Chinese herbal medicine in treatment of diabetic peripheral neuropathy: A systematic review and meta-analysis” H.-B. Xu, R.-H. Jiang, X.-Z. Chen, L. Li (China) | 263 |



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMBiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Review

- Medicinal plants of genus *Curculigo*: Traditional uses and a phytochemical and ethnopharmacological review
Y. Nie, X. Dong, Y. He, T. Yuan, T. Han, K. Rahman, L. Qin, Q. Zhang 547

Research Papers

- Screening and evaluation of traditional Chinese medicine by microarray expression analysis
G. Ren, X. Fan, Q. Liang, Y. Wang, G. Luo 564
- Pharmacological properties of blister beetles (Coleoptera: Meloidae) promoted their integration into the cultural heritage of native rural Spain as inferred by vernacular names diversity, traditions, and mitochondrial DNA
N. Percino-Daniel, D. Buckley, M. García-París 570
- Atropa acuminata* Royle Ex Lindl. blunts production of pro-inflammatory mediators eicosanoids, leukotrienes, cytokines *in vitro* and *in vivo* models of acute inflammatory responses
A. Nisar, A.H. Malik, M.A. Zargar 584
- Total saponins of *Panax notoginseng* enhance VEGF and relative receptors signals and promote angiogenesis derived from rat bone marrow mesenchymal stem cells
H. zheng, C. Liu, Y. Ou, Y. Zhang, X. Fu 595
- Ethanol extract of *Adiantum capillus-veneris* L. suppresses the production of inflammatory mediators by inhibiting NF- κ B activation
Q. Yuan, X. Zhang, Z. Liu, S. Song, P. Xue, J. Wang, J. Ruan 603
- Anti-inflammatory and antioxidant properties of hydroalcoholic crude extract from *Casearia sylvestris* Sw. (Salicaceae)
M.N. Albano, M.R. da Silveira, L.G. Danielski, D. Florentino, F. Petronilho, A.P. Piovezan 612
- Antiplasmodial activity of sesquiterpene lactones and a sucrose ester from *Vernonia guineensis* Benth. (Asteraceae)
N.J. Toyang, M.A. Krause, R.M. Fairhurst, P. Tane, J. Bryant, R. Verpoorte 618
- In vitro* and *in vivo* anti-diabetic activity of *Swertia kouitchensis* extract
L.-s. Wan, C.-p. Chen, Z.-q. Xiao, Y.-l. Wang, Q.-x. Min, Y. Yue, J. Chen 622
- In vivo* and *in vitro* anti-inflammatory activity of *Lentinus polychrous* extract
N. Fangkrathok, J. Junlatat, B. Sripanidkulchai 631
- A possible role of partially pyrolysed essential oils in Australian Aboriginal traditional ceremonial and medicinal smoking applications of *Eremophila longifolia* (R. Br.) F. Muell (*Scrophulariaceae*)
N.J. Sadgrove, G.L. Jones 638
- Nrf2-dependent neuroprotective activity of diterpenoids isolated from *Sideritis* spp
E. González-Burgos, M.E. Carretero, M.P. Gómez-Serranillos 645

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|--|-----|
| Safety assessment of the standardized extract of <i>Carissa edulis</i> root bark in rats J. Ya'u, B.A. Chindo, A.H. Yaro, S.E. Okhale, J.A. Anuka, I.M. Hussaini | 653 |
| Aqueous extract of <i>Artemisia capillaris</i> exerts hepatoprotective action in alcohol-pyrazole-fed rat model M.-K. Choi, J.-M. Han, H.-G. Kim, J.-S. Lee, J.-S. Lee, J.-H. Wang, S.-W. Son, H.-J. Park, C.-G. Son | 662 |
| <i>Ethnopharmacological communications</i> | |
| Antifertility effect of hydroalcoholic leaves extract of <i>Michelia champaca</i> L.: An ethnomedicine used by Bhatra women in Chhattisgarh state of India S. Taprial, D. Kashyap, V. Mehta, S. Kumar, D. Kumar | 671 |
| Bitterness values for traditional tonic plants of southern Africa D.K. Olivier, B.-E. van Wyk | 676 |
| <i>Erratum</i> | |
| Erratum to "The medicinal uses of <i>Callicarpa</i> L. in traditional Chinese medicine: An ethnopharmacological, phytochemical and pharmacological review" [J. Ethnopharmacol. 146 (2) (2013) 465-481] Y. Tu, L. Sun, M. Guo, W. Chen | 680 |





CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- Xiaoxuming decoction for acute ischemic stroke: A systematic review and meta-analysis
D.-l. Fu, L. Lu, W. Zhu, J.-h. Li, H.-q. Li, A.-j. Liu, C. Xie, G.-q. Zheng (China) 1
- Botany, traditional uses, phytochemistry and pharmacology of *Waltheria indica* L. (*syn. Waltheria americana*): A review
F. Zongo (France, Burkina Faso), C. Ribuoat, A. Boumendjel (France), I. Guissou (Burkina Faso) 14

Research Papers

- Protection of glycyrrhizic acid against AGEs-induced endothelial dysfunction through inhibiting RAGE/NF- κ B pathway activation in human umbilical vein endothelial cells
L. Feng, M.-m. Zhu, M.-h. Zhang, R.-s. Wang, X.-b. Tan, J. Song, S.-m. Ding, X.-b. Jia, S.-y. Hu (China) 27
- Identification of active compounds from *Caesalpinia sappan* L. extracts suppressing IL-6 production in RAW 264.7 cells by PLS
M.-J. Chu, Y.-Z. Wang (China), K. Itagaki (USA), H.-X. Ma, P. Xin, X.-G. Zhou, G.-Y. Chen, S. Li, S.-Q. Sun (China) 37
- Antimicrobial activity of southern African medicinal plants with dermatological relevance: From an ethnopharmacological screening approach, to combination studies and the isolation of a bioactive compound
U. Mabona, A. Viljoen, E. Shikanga, A. Marston, S. Van Vuuren (South Africa) 45
- Artemisia copa* aqueous extract as vasorelaxant and hypotensive agent
S. Gorzalczy, V. Moscatelli, G. Ferraro (Argentina) 56
- Ethanol extract of *Peperomia pellucida* (Piperaceae) promotes fracture healing by an anabolic effect on osteoblasts
F.T. Ngueguim (Cameroon), M.P. Khan (India), J.H. Donfack (Cameroon), D. Tewari (India), T. Dimo, P. Kamtchoung (Cameroon), R. Maurya, N. Chattopadhyay (India) 62
- Effect of bioactive peptide of *Carapax Trionycis* on TGF- β_1 -induced intracellular events in hepatic stellate cells
Y. Tang, C. Hu, Y. Liu (China) 69
- Antibacterial, cytotoxic activities and chemical composition of fruits of two Cameroonian *Zanthoxylum* species
L.N. Misra, N.A.V. Wouatsa, S. Kumar, R. Venkatesh Kumar (India), F. Tchoumboungang (Cameroon) 74
- The influence of *Bauhinia forficata* Link subsp. *pruinosa* tea on lipid peroxidation and non-protein SH groups in human erythrocytes exposed to high glucose concentrations
A.C.F. Salgueiro, C.Q. Leal, M.C. Bianchini, I.O. Prado, A.S.L. Mendez, R.L. Puntel, V. Folmer, F.A. Soares, D.S. Ávila, G.O. Puntel (Brazil) 81
- ¹H NMR-based metabonomics study on the toxicity alleviation effect of other traditional Chinese medicines in Niu Huang Jiedu tablet to *realgar* (As₂S₂)
W. Xu, H. Wang, G. Chen, W. Li, R. Xiang, Y. Pei (PR China) 88
- In vitro* and *in vivo* safety evaluation of *Acer tegmentosum*
Y.-H. Hwang, H. Park, J.Y. Ma (South Korea) 99
- Extract from *Mimosa pigra* attenuates chronic experimental pulmonary hypertension
G. Rakotomalala, C. Agard, P. Tonnerre, A. Tesse, S. Derbré, S. Michalet, J. Hamzaoui, M. Rio, C. Cario-Toumaniantz, P. Richomme, B. Charreau, G. Loirand, P. Pacaud (France) 106
- Skin penetration enhancing properties of the plant *N*-alkylamide spilanthol
B. De Spiegeleer, J. Boonen, S.V. Malysheva, J.D.D. Mavungu, S. De Saeger, N. Roche, P. Blondeel, L. Taevernier, L. Veryser (Belgium) 117

(Contents continued on BMIII)



(contents continued from outside back cover)

- Anti-inflammatory activity of *Cymbopogon citratus* leaves infusion via proteasome and nuclear factor- κ B pathway inhibition:
 *Contribution of chlorogenic acid
 V. Francisco, G. Costa, A. Figueirinha, C. Marques, P. Pereira, B. Miguel Neves, M. Celeste Lopes (Portugal),
 C. García-Rodríguez (Spain), M. Teresa Cruz, M. Teresa Batista (Portugal) 126
- The effect of mitragynine on cAMP formation and mRNA expression of *mu*-opioid receptors mediated by chronic morphine
 treatment in SK-N-SH neuroblastoma cell
 M.F.A. Jamil, M.F.M. Subki, T.M. Lan, M.I.A. Majid, M.I. Adenan (Malaysia) 135
- Antimicrobial interactions of Khoi-San poly-herbal remedies with emphasis on the combination; *Agathosma crenulata*, *Dodonaea*
viscosa and *Eucalyptus globulus*
 S. Zonyane, S.F. Van Vuuren, N.P. Makunga (South Africa) 144
- Anti-epileptogenic and antioxidant effect of *Lavandula officinalis* aerial part extract against pentylentetrazol-induced kindling in
 male mice
 B. Rahmati, M. Khalili, M. Roghani, P. Ahghari (Iran) 152
- Determination of toxic heavy metals in indigenous medicinal plants used in Rawalpindi and Islamabad cities, Pakistan
 A. Mahmood, S. Rashid, R.N. Malik (Pakistan) 158
- Antiulcer and gastric antisecretory effects of dichloromethane fraction and piplartine obtained from fruits of *Piper tuberculatum*
 Jacq. in rats
 L.M. Burci, I.T. Pereira, L.M. da Silva, R.V. Rodrigues, V.A. Facundo, J.S.L.T. Militão, A.R.S. Santos, M.C.A. Marques,
 C.H. Baggio, M.F.d.P. Werner (Brazil) 165
- Protective effect of ethyl acetate fraction of *Acacia ferruginea* DC. against ethanol-induced gastric ulcer in rats
 K. Sowndhararajan, S.C. Kang (Republic of Korea) 175
- Relationships between pharmacokinetics and efficacy of Xie-xin decoction in rats with experimental ulcerative colitis
 X.-H. Han, J. Zhong, J.-Y. Guo, R. Shi, X.-H. Wang, C.-H. Wang, K. Wang, G.-L. Du, Y.-H. Shen, Y.-M. Ma (China) 182
- Evaluation of reproductive and developmental toxicities of Pu-erh black tea (*Camellia sinensis* var. *assamica*) extract in Sprague
 Dawley rats
 D. Wang, J. Meng, H. Gao, K. Xu, R. Xiao, Y. Zhong, X. Luo, P. Yao, H. Yan, L. Liu (PR China) 190
- Effect of a *Garcinia gardneriana* (Planchon and Triana) Zappi hydroalcoholic extract on melanogenesis in B16F10 melanoma cells
 P.M. Campos, C.D.d.S. Horinouchi, A.d.S. Prudente, V. Cechinel-Filho, D.d.A. Cabrini, M.F. Otuki (Brazil) 199
- Evaluation of mechanisms involved in the antinociception of the ethanol extract from the inner bark of *Caesalpinia pyramidalis*
 in mice
 C.A. Santos, D.S. Santos, D.G. Santana, S.M. Thomazzi (Brazil) 205
- In vitro* and *in vivo* aphrodisiac properties of *Corchorus depressus* Linn. on rabbit corpus cavernosum smooth muscle relaxation
 and sexual behavior of normal male rats
 S. Kataria, D. Kaur, S.K. Rao, R.K. Khajuria (India) 210
- Beneficial effects of *Anadenanthera colubrina* (Vell.) Brenan extract on the inflammatory and nociceptive responses in rodent
 models
 J.S. Santos, R.R. Marinho, E. Ekundi-Valentim, L. Rodrigues, M.H. Yamamoto, S.A. Teixeira, M.N. Muscara, S.K. Costa,
 S.M. Thomazzi (Brazil) 218
- Anti-diarrhoeal activity of aqueous extract of *Ocimum kilimandscharicum*
 R.V. Sarin, S. Narwal, P.A. Bafna (India) 223
- Ethnopharmacological and bioactivity guided investigation of five TCM anticancer herbs
 Q.-x. Meng (Australia, China), R.H. Roubin, J.R. Hanrahan (Australia) 229
- Cardioprotective effects of the YiQiFuMai injection and isolated compounds on attenuating chronic heart failure via NF- κ B
 inactivation and cytokine suppression
 L. Xing, M. Jiang, L. Dong, J. Gao, Y. Hou, G. Bai, G. Luo (People's Republic of China) 239
- Influence of processing on pharmacokinetic of typical constituents in radix *polygoni multiflori* after oral administration by
 LC-ESI-MS/MS
 L. Zhang, W.-f. Ma, J. Li, J. He, P. Zhang, F. Zheng, B.-l. Zhang, X.-m. Gao, Y.-x. Chang (China) 246
- The anti-cancer activity of *Antrodia camphorata* against human ovarian carcinoma (SKOV-3) cells via modulation of HER-2/*neu*
 signaling pathway
 H.-L. Yang, K.-Y. Lin, Y.-C. Juan, K.J.S. Kumar, T.-D. Way, P.-C. Shen, S.-C. Chen, Y.-C. Hseu (Taiwan) 254
- Pharmacokinetic study of four flavones of *Glycyrrhiza* in rat plasma using HPLC-MS
 Y.-P. Wu, X.-S. Meng, Y.-R. Bao, S. Wang (China) 266
- Wogonoside displays anti-inflammatory effects through modulating inflammatory mediator expression using RAW264.7 cells
 Y.-Z. Yang, Y.-Z. Tang, Y.-H. Liu (China) 271

Continued from previous page

- Gastroprotective mechanism of *Bauhinia thonningii* Schum
S.I. Abdelwahab, M.M.E. Taha (Saudi Arabia), M.A. Abdulla, N. Nordin, A.H.A. Hadi, S. Mohan, J.J. Jayapalan, O.H. Hashim (Malaysia) 277
- Screening for polyphenols, antioxidant and antimicrobial activities of extracts from eleven *Helianthemum* taxa (Cistaceae) used in folk medicine in south-eastern Spain
Á. Rubio-Moraga, J. Argandoña, B. Mota, J. Pérez, A. Verde, J. Fajardo, J. Gómez-Navarro, R. Castillo-López, O. Ahrazem, L. Gómez-Gómez (Spain) 287
- Investigation of *in vivo* metabolic profile of *Abelmoschus Manihot* based on pattern recognition analysis
J.-m. Guo, P. Lin, Y.-w. Lu, J.-a. Duan, E.-x. Shang, D.-w. Qian, Y.-p. Tang (PR China) 297
- An assessment of the Bhutanese traditional medicine for its ethnopharmacology, ethnobotany and ethnoquality: Textual understanding and the current practices
P. Wangchuk, S.G. Pyne, P.A. Keller (Australia) 305
- Anthelmintic activity of *Arisaema franchetianum* and *Arisaema lobatum* essential oils against *Haemonchus contortus*
L. Zhu, J. Dai, L. Yang, J. Qiu (China) 311
- Canna indica* L. attenuates high-glucose- and lipopolysaccharide-induced inflammatory mediators in monocyte/macrophage
H.J. Chen, C.-N. Chen, M.-L. Sung, Y.-C. Wu, P.-L. Ko, T.K. Tso (R.O.C) 317
- Cyperi Rhizoma inhibits the 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced reduction in nigrostriatal dopaminergic neurons in estrogen-deprived mice
H.G. Kim, J. Hong, Y. Huh, C. Park, D.-S. Hwang, J.-H. Choi, M.S. Oh (Republic of Korea) 322
- Ethnopharmacological Communications*
- Commonly used metal and crystalline salts in South African traditional medicine
R.A. Street, M.P. Cele (South Africa) 329
- Characterization of volatiles and anti-ulcerogenic effect of Turkish sweetgum balsam (*Styrax liquidus*)
I. Gurbuz, E. Yesilada, B. Demirci, E. Sezik, F. Demirci, K.H.C. Baser (Turkey) 332
- Kaempferitrin induces immunostimulatory effects *in vitro*
M. del Carmen Juárez-Vázquez, A. Josabad Alonso-Castro, A. García-Carrancá (México) 337
- Reproductive toxicity of *Campomanesia xanthocarpa* (Berg.) in female Wistar rats
S.A. Auharek, M. do Carmo Vieira, C.A.L. Cardoso, R.J. Oliveira, A.L. Cunha-Laura (Brazil) 341
- Book Review*
- Plants and herbs for the treatment of diabetes. Thankam, Mathew, 2 Chapters and 154 plants described, 507 pp., Thajema West Oranje, NJ, USA, ISBN 9780972759786, 2012 (Soft cover)
A. Andrade-Cetto (Mexico) 344
- Errata*
- Erratum to "A survey of folk remedies for gastrointestinal tract diseases from Thailand's three southern border provinces" [Journal of Ethnopharmacology 144 (1) (2012) 11–21]
O. Neamsuvan, T. Tuwaemaengae, F. Bensulong, A. Asae, K. Mosamae (Thailand) 345
- Erratum to: "Bioprospecting: Evolutionary implications from a post-Olmec pharmacopoeia and the relevance of widespread taxa." [J. Ethnopharmacol. 2013. pii: S0378-8741(13)00106-2, doi:10.1016/j.jep.2013.02.012. (Epub: 20th February 2013)]
M. Leonti, S. Cabras, M. Eugenia Castellanos, A. Challenger, J. Gertsch, L. Laura Casu (Italy) 346
- Corrigendum to "Antioxidant and anti-inflammatory activities of the phenolic extracts of *Sapium sebiferum* (L.) Roxb. leaves" [J. Ethnopharmacol. 147(2) (2013) 517–524]
R. Fu, Y.-T. Zhang, Y.-R. Guo, Q.-L. Huang, T. Peng, Y. Xu, L. Tang, F. Chen (PR China) 348





CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMBiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- The cultural-bound disease "empacho" in Argentina. A comprehensive botanico-historical and ethnopharmacological review
R. Campos-Navarro (Mexico), G.F. Scarpa (Argentina) 349
- Knowledge of Eastern materia medica (Indian and Chinese) in pre-modern Mediterranean medical traditions: A study in comparative historical ethnopharmacology
A. Touwaide, E. Appetiti (USA) 361

Research Papers

- Cardiovascular effects of *Boophone disticha* aqueous ethanolic extract on early maternally separated BALB/C mice
W. Pote, D. Tagwireyi, H.M. Chinyanga, C. Musara, G. Nyandoro, J. Chifamba (Zimbabwe), P. Nkomozepi (South Africa) 379
- Spiritual and Ceremonial Plants in North America: An Assessment of Moerman's Ethnobotanical Database Comparing Residual, Binomial, Bayesian and Imprecise Dirichlet Model (IDM) Analysis
C.E. Turi, S.J. Murch (Canada) 386
- Herbalists and wild medicinal plants in M'Sila (North Algeria): An ethnopharmacology survey
A. Boudjelal, C. Henchiri, M. Sari, D. Sarri, N. Hendel, A. Benkhaled (Algeria), G. Ruberto (Italy) 395
- Urinary metabonomic study of the surface layer of *Poria cocos* as an effective treatment for chronic renal injury in rats
Y.-Y. Zhao, H.-T. Li, Y.-L. Feng, X. Bai, R.-C. Lin (PR China) 403
- Traditional and alternative natural therapeutic products used in the treatment of respiratory tract infectious diseases in the eastern Catalan Pyrenees (Iberian Peninsula)
M. Rigat, J. Vallès, J. Iglésias, T. Garnatje (Spain) 411
- Comparative assessment of dermal wound healing potentials of various *Trifolium* L. extracts and determination of their isoflavone contents as potential active ingredients
G. Renda, F.N. Yalçın, E. Nemutlu, E.K. Akkol, İ. Süntar, H. Keles (Turkey), H. Ina (Japan), İ. Çalis (Cyprus), T. Ersöz (Turkey) 423
- Steroidal glycosides from the bulbs of Easter lily (*Lilium longiflorum* Thunb.) promote dermal fibroblast migration *in vitro*
D. Esposito, J.P. Munafa Jr., T. Lucibello (United States), M. Baldeon (Ecuador), S. Komarnytsky, T.J. Gianfagna (United States) 433
- Scientific evidence for traditional claim of anti-obesity activity of *Tecomella undulata* bark
R. Alvala, M. Alvala, V. Sama, S. Dharmarajan, J. Variam Ullas, M.R. B (India) 441
- Rokumi-jio-gan-containing prescriptions regulate oxidative stress through improving dyslipidemia in a subtotal nephrectomized rat model
C.H. Park, S.L. Lee, J.S. Noh, T. Yokozawa (Japan) 449
- Ghrelin receptor is activated by naringin and naringenin, constituents of a prokinetic agent *Poncirus fructus*
Y. Jang, S.-W. Kim, J. Oh, G.-S. Hong, E.-K. Seo, U. Oh, W.-S. Shim (Republic of Korea) 459
- Water extract of licorice had anti-viral activity against human respiratory syncytial virus in human respiratory tract cell lines
C. Feng Yeh, K. Chih Wang, L. Chai Chiang, D.E. Shieh, M. Hong Yen, J. San Chang (Taiwan) 466
- Anti-oxidative stress effect of red ginseng in the brain is mediated by peptidyl arginine deiminase type IV (PADI4) repression via estrogen receptor (ER) β up-regulation
E.-H. Kim, I.-H. Kim, M.-J. Lee, C. Thach Nguyen, J.-A. Ha, S.-C. Lee, S. Choi, K.-T. Choi, S. Pyo, D.-K. Rhee (South Korea) 474

(Contents continued on BM)



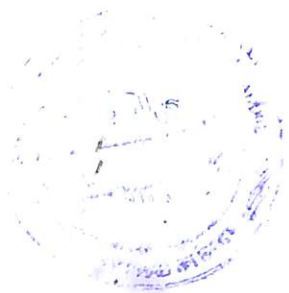
(contents continued from outside back cover)

- Antimicrobial activity of *Schinus lentiscifolius* (Anacardiaceae)
I.T.S. Gehrke, A.T. Neto, M. Pedroso, C.P. Mostardeiro, I.B.M. Da Cruz, U.F. Silva, V. Ilha, I.I. Dalcol, A.F. Morel (Brazil) 486
- Argyreia nervosa* (Burm. f.): Receptor profiling of lysergic acid amide and other potential psychedelic LSD-like compounds by computational and binding assay approaches
A. Paulke, C. Kremer, C. Wunder, J. Achenbach, B. Djahanschiri, A. Elias, J. Stefan Schwed, H. Hübner, P. Gmeiner, E. Proschak, S.W. Toennes, H. Stark (Germany) 492
- A clinical trial of acupuncture about time-varying treatment and points selection in primary dysmenorrhea
Y.-X. Ma, X.-N. Ye, C.-Z. Liu, P.-Y. Cai, Z.-F. Li, D.-Q. Du, G. Guo, S.-Z. Chen, J.-P. Zhao, J.-J. Liu, H.-Q. Yi, S.-Z. Gao (China) 498
- Myelophil attenuates brain oxidative damage by modulating the hypothalamus-pituitary-adrenal (HPA) axis in a chronic cold-stress mouse model
H.-G. Kim, J.-S. Lee, J.-M. Han, J.-S. Lee, M.-K. Choi, S.-W. Son, Y.-K. Kim, C.-G. Son (Republic of Korea) 505
- Antimicrobial and acetylcholinesterase inhibitory activities of *Buddleja salviifolia* (L.) Lam. leaf extracts and isolated compounds
S.C. Pendota, M.A. Aderogba, A.R. Ndhlala, J. Van Staden (South Africa) 515
- Ethnobotany of medicinal plants used in Xalpatlahuac, Guerrero, México
M.d.C. Juárez-Vázquez, C. Carranza-Álvarez, A.J. Alonso-Castro, V.F. González-Alcaraz, E. Bravo-Acevedo, F.J. Chamarro-Tinajero, E. Solano (Mexico) 521
- Ethnobotanical survey of medicinally important wild edible fruits species used by tribal communities of Lesser Himalayas-Pakistan
A.M. Abbasi, M.A. Khan (Pakistan), N. Khan (Sweden), M.H. Shah (Pakistan) 528
- Protective effect of a *Butea monosperma* (Lam.) Taub. flowers extract against skin inflammation: Antioxidant, anti-inflammatory and matrix metalloproteinases inhibitory activities
I. Krolikiewicz-Renimel (France, India), T. Michel, E. Destandau (France), M. Reddy (India), P. André, C. Elfakir, C. Pichon (France) 537
- Physalin A induces apoptosis via p53-Noxa-mediated ROS generation, and autophagy plays a protective role against apoptosis through p38-NF- κ B survival pathway in A375-S2 cells
H. He, L.-H. Zang, Y.-S. Feng, L.-X. Chen, N. Kang (PR China), S.-i. Tashiro, S. Onodera (Japan), F. Qiu, T. Ikejima (PR China) 544
- Identifying core herbal treatments for urticaria using Taiwan's nationwide prescription database
Y.-h. Lin, Y.-c. Chen, S. Hu, H.-y. Chen, J.-l. Chen, S.-h. Yang (Taiwan) 556
- Effects of an aqueous extract of *Crataegus pinnatifida* Bge. var. *major* N.E.Br. fruit on experimental atherosclerosis in rats
J. Zhang, R. Liang, L. Wang, R. Yan, R. Hou, S. Gao, B. Yang (China) 563
- Carthamus red from *Carthamus tinctorius* L. exerts antioxidant and hepatoprotective effect against CCl₄-induced liver damage in rats via the Nrf2 pathway
S. Wu, Y. Yue, H. Tian, Z. Li, X. Li, W. He, H. Ding (PR China) 570
- The effects of Rhizoma Zingiberis on pharmacokinetics of six *Aconitum* alkaloids in herb couple of Radix Aconiti Lateralis–Rhizoma Zingiberis
W.-W. Peng, W. Li, J.-S. Li, X.-B. Cui, Y.-x. Zhang, G.-M. Yang, H.-M. Wen, B.-C. Cai (PR China) 579
- Cuscuta chinensis* seeds water extraction protecting murine osteoblastic MC3T3-E1 cells against tertiary butyl hydroperoxide induced injury
J.-m. Gao, R. Li, L. Zhang, L.-l. Jia, X.-x. Ying, D.-q. Dou, J.-c. Li, H.-b. Li (China) 587
- Up-regulation of CYP3A expression through pregnant X receptor by praeruptorin D isolated from *Peucedanum praeruptorum* Dunn
L. Huang, M. Huang, Y.-H. Li, R.-M. Li, Y. Zeng, S.-Y. Kuang, L. Zhang, Y.-T. Wang, H.-C. Bi (China) 596
- Antidepressant-like effect of ethanol extract from Zuojin Pill, containing two herbal drugs of Rhizoma Coptidis and Fructus Evodiae, is explained by modulating the monoaminergic neurotransmitter system in mice
Q.-S. Wang, S.-L. Ding, H.-P. Mao, Y.-L. Cui, X.-J. Qi (PR China) 603
- Soft tissue contusion repairing effects of *Hong Yao* with different penetration enhancers
B. Xiao, Q. Li, N. Han, C.-L. Zhang, J. Yin (China) 610
- Pharmacokinetic study of salvianolic acid A in beagle dog after oral administration by a liquid chromatography–mass spectrometry method: A study on bioavailability and dose proportionality
J. Sun, L. Zhang, J. Song, S. Tian, C. Huang, Z. Feng, Y. Lv, G. Du (China) 617
- Ginseng–Aconite Decoction elicits a positive inotropic effect via the reverse mode Na⁺/Ca²⁺ exchanger in beating rabbit atria
H.Z. Cui (Republic of Korea, China), H.Y. Kim, D.G. Kang, H.S. Lee (Republic of Korea) 624
- The protective role of Tongxinluo on blood–brain barrier after ischemia–reperfusion brain injury
Y. Liu, G.H. Tang, Y.H. Sun, X.J. Lin, C. Wei, G.-Y. Yang, J.R. Liu (China) 632
- Anti-diarrhoeal and anti-microbial activity of Flos populi (male inflorescence of *Populus tomentosa* Carrière) aqueous extracts
Q. Xu, Z. Shen, Y. Wang, S. Guo, F. Li, Y. Wang, C. Zhou (China) 640

Continued on next page

Continued from previous page

- 18 β -Glycyrrhetic acid potently inhibits Kv1.3 potassium channels and T cell activation in human Jurkat T cells
X.-X. Fu, L.-L. Du, N. Zhao, Q. Dong, Y.-H. Liao, Y.-M. Du (PR China) 647
- Vasorelaxant action of an ethylacetate fraction of *Euphorbia humifusa* involves NO-cGMP pathway and potassium channels
T.T. Wang, G.H. Zhou (China), J.H. Kho (South Korea), Y.Y. Sun, J.F. Wen (China), D.G. Kang, H.S. Lee (South Korea), K.W. Cho, S.N. Jin (China) 655
- In vitro* and *in vivo* hepatoprotective and antioxidant activity of ethanolic extract from *Meconopsis integrifolia* (Maxim.) Franch
G. Zhou, Y. Chen, S. Liu, X. Yao, Y. Wang (PR China) 664
- Multitargeted inhibition of hepatic fibrosis in chronic iron-overloaded mice by *Salvia miltiorrhiza*
Y. Zhang, Y. Zhang, Y. Xie, Y. Gao, J. Ma, J. Yuan, J. Li, J. Wang, L. Li, J. Zhang, L. Chu (China) 671
- An LC/MS/MS method for simultaneous quantitation of two homoisoflavones: Protosappanin B and brazilin with hypoglycemic activity in rat plasma and its application to a comparative pharmacokinetic study in normal and streptozotocin-treated rats
X.-Z. Tong, H. Zhu, Y. Shi, H.-T. Xu, B. Wang, J.-H. Zhao (China) 682
- Investigation of the absorbed and metabolized components of Danshen from Fuzheng Huayu recipe and study on the anti-hepatic fibrosis effects of these components
T. Yang, D.-P. Shen, Q.-L. Wang, Y.-Y. Tao, C.-H. Liu (China) 691
- Medicinal plants and their uses by the people in the Region of Randa, Djibouti
A. Hassan-Abdallah, A. Merito, S. Hassan, D. Aboubaker, M. Djama (Djibouti), Z. Asfaw, E. Kelbessa (Ethiopia) 701
- Indigenous knowledge of medicinal plants from Gujranwala district, Pakistan
A. Mahmood, A. Mahmood, R.N. Malik, Z.K. Shinwari (Pakistan) 714
- Ethnopharmacological Communication*
- Antiprotozoal screening and cytotoxicity of extracts and fractions from the leaves, stem bark and root bark of *Alstonia congensis*
S.L. Lumpu, C.M. Kikueta, M.E. Tshodi, A.P. Mbenza, O.K. Kambu, B.M. Mbamu (Congo), P. Cos, L. Maes, S. Apers, L. Pieters (Belgium), R.K. Cimanga (Congo, Belgium) 724
- Book Review*
- Mystic Chemist: The Life of Albert Hofmann and his Discovery of LSD Dieter Hagenbach, Lucius Werthmüller, with a foreword by Stanislav Grof (translated from the German original: Albert Hofmann und sein LSD. AT Verlag, Aarau, München (2011)). First English Edition. 440 b&w and colour photos, index of names (no general index) UK £34, USA \$38.95. Synergetic Press, Santa Fe, NM, USA (2013). 400 pp., Paperback, ISBN: 978-0-907791-46-1
M. Heinrich (UK) 728





CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- Botany, phytochemistry, pharmacology, and potential application of *Polygonum cuspidatum* Sieb. et Zucc.: A review
W. Peng, R. Qin, X. Li, H. Zhou (PR China) 729
- Intercultural health and ethnobotany: How to improve healthcare for underserved and minority communities?
I. Vandebroek (USA) 746

Research Papers

- Immunoregulatory effects of Glycyrrhizic acid exerts anti-asthmatic effects via modulation of Th1/Th2 cytokines and enhancement of CD4⁺CD25⁺Foxp3⁺ regulatory T cells in ovalbumin-sensitized mice
C. Ma, Z. Ma, X.-l. Liao, J. Liu, Q. Fu, S. Ma (China) 755
- Antiplasmodial and anti-inflammatory activities of *Canthium henriquesianum* (K. Schum), a plant used in traditional medicine in Burkina Faso
D.P. Ilboudo, N. Basilico, S. Parapini, Y. Corbett, S. D'Alessandro, M. Dell'Agli, P. Coghi (Italy), S.D. Karou, R. Sawadogo, C. Gnoula, J. Simporé, J.-B. Nikiema (Burkina Faso), D. Monti, E. Bosisio, D. Taramelli (Italy) 763
- Molecular network and chemical fragment-based characteristics of medicinal herbs with cold and hot properties from Chinese medicine
F. Liang, L. Li, M. Wang, X. Niu, J. Zhan, X. He, C. Yu, M. Jiang (China), A. Lu (China, Hong Kong) 770
- The effect of *Nigella sativa* Linn. seed on memory, attention and cognition in healthy human volunteers
M.S. Bin Sayeed, Md. Asaduzzaman, H. Morshed, Md.M. Hossain, M.F. Kadir, Md.R. Rahman (Bangladesh) 780
- Effects of taraxasterol on ovalbumin-induced allergic asthma in mice
J. Liu, H. Xiong, Y. Cheng, C. Cui, X. Zhang, L. Xu, X. Zhang (PR China) 787
- Neuroprotective effects of Total Saikosaponins of *Bupleurum yinchowense* on corticosterone-induced apoptosis in PC12 cells
Z.-Y. Li, Z. Guo, Y.-M. Liu, X.-M. Liu, Q. Chang, Y.-h. Liao, R.-L. Pan (China) 794
- Abelmoschi Corolla non-flavonoid components altered the pharmacokinetic profile of its flavonoids in rat
L. Lu, D. Qian, J. Guo, Y. Qian, B. Xu, M. Sha, J. Duan (China) 804
- Cycloartane triterpenoid saponins from water soluble of *Passiflora edulis* Sims and their antidepressant-like effects
C. Wang, F.-Q. Xu, J.-H. Shang, H. Xiao, W.-W. Fan, F.-W. Dong, J.-M. Hu, J. Zhou (China) 812
- Mycelia extracts of fungal strains isolated from *Cordyceps sinensis* differently enhance the function of RAW 264.7 macrophages
L.-Z. Meng, B.-Q. Lin, B. Wang, K. Feng, D.-J. Hu, L.-Y. Wang, K.-L. Cheong, J. Zhao, S.-P. Li (China) 818
- The effects of a standardized *Acanthopanax koreanum* extract on stress-induced behavioral alterations in mice
J.M. Jung, S.J. Park, Y.W. Lee, H.E. Lee, S.I. Hong, J.H. Lew, E. Hong, J.S. Shim, J.H. Cheong, J.H. Ryu (Republic of Korea) 826
- Total flavonoids of *Mosla scabra* leaves attenuates lipopolysaccharide-induced acute lung injury via down-regulation of inflammatory signaling in mice
J. Chen, J.-B. Wang, C.-H. Yu, L.-Q. Chen, P. Xu, W.-Y. Yu (China) 835
- The suppressive effects of *Saposhnikovia divaricata* (Fangfeng) chromone extract on rheumatoid arthritis via inhibition of nuclear factor- κ B and mitogen activated protein kinases activation on collagen-induced arthritis model
X. Kong, C. Liu, C. Zhang, J. Zhao, J. Wang, H. Wan, H. Zhu, P. Zhang, W. Chen, Y. Xiao, N. Lin (China) 842

(Contents continued on BM)



(contents continued from outside back cover)

Mechanism for hepato-protective action of Liangxue Huayu Recipe (LHR): Blockade of mitochondrial cytochrome *c* release and caspase activation
Z.-Q. Jiang, X.-J. Yan, L. Bi, J.-P. Chen, Q. Zhou, W.-P. Chen (China) 851

Protective effects of aqueous extract from *Acanthopanax senticosus* against corticosterone-induced neurotoxicity in PC12 cells
F. Wu, H. Li, L. Zhao, X. Li, J. You, Q. Jiang, S. Li, L. Jin, Y. Xu (China) 861

Antitumor effect of blister beetles: An ethno-medicinal practice in Karbi community and its experimental evaluation against a murine malignant tumor model
A.K. Verma, S.B. Prasad (India) 869

Quantitative evaluation of therapeutic effect of *Liriope platyphylla* on phthalic anhydride-induced atopic dermatitis in IL-4/Luc/CNS-1 Tg mice
M.H. Kwak, J.E. Kim, I.S. Hwang, Y.J. Lee, B.S. An, J.T. Hong, S.H. Lee, D.Y. Hwang (Republic of Korea) 880

Anti-allergic and anti-inflammatory effects of bakkenolide B isolated from *Petasites japonicus* leaves
K.-P. Lee, S. Kang, S.-J. Park, Y.-W. Choi, Y.-G. Lee, D.-S. Im (Republic of Korea) 890

Decreased thrombin activity by a Congolese herbal medicine used in sickle cell anemia
M.M. Nsimba (Japan, DR Congo), J.N. Lami (DR Congo), Y. Hayakawa, C. Yamamoto, T. Kaji (Japan) 895

Topical anti-inflammatory and analgesic activities of standardized pomegranate rind extract in comparison with its marker compound ellagic acid in vivo
J. Mo, P. Panichayupakaranant, N. Kaewnopparat, A. Nitiruangjaras, W. Reanmongkol (Thailand) 901

Antifungal activity and cytotoxicity of isolated compounds from leaves of *Breonadia salicina*
S.M. Mahlo, L.J. McGaw, J.N. Eloff (South Africa) 909

Evidence of the involvement of the monoaminergic systems in the antidepressant-like effect of *Aloysia gratissima*
A.L.B. Zeni, A.D.E. Zomkowski, M. Maraschin, C.I. Tasca, A.L.S. Rodrigues (Brazil) 914

Ethnobotanical study of medicinal plants commonly used by local bedouins in the badia region of Jordan
O. Nawash, M. Shudiefat, R. Al-Tabini, K. Al-Khalidi (Jordan) 921

The ethyl acetate fraction of *Polytrichum commune* L.ex Hedw induced cell apoptosis via reactive oxygen species in L1210 cells
X. Cheng, Y. Xiao, P. Wang, X. Wang, Y. Zhou, H. Yan, Q. Liu (China) 926

Isolation, Identification and Molecular Docking Studies of a New Isolated Compound, from *Onopordon acanthium*: A Novel Angiotensin Converting Enzyme (ACE) inhibitor
N. Sharifi, E. Souri, S.A. Ziai, G. Amin, M. Amini, M. Amanlou (Iran) 934

Aqueous ethanol extract of the fruit of *Xylopia aethiopica* (Annonaceae) exhibits anti-anaphylactic and anti-inflammatory actions in mice
D.D. Obiri, N. Osafo (Ghana) 940

Analgesic effects of glycoproteins from *Panax ginseng* root in mice
Y. Wang, Y. Chen, H. Xu, H. Luo, R. Jiang (PR China) 946

Traditional uses of medicinal plants in Solhan (Bingöl—Turkey)
R. Polat, U. Cakilcioglu, F. Satil (Turkey) 951

Ethnobotanical study on medicinal plants around Limu Mountains of Hainan Island, China
X.-l. Zheng, J.-h. Wei, W. Sun, R.-t. Li, S.-b. Liu, H.-f. Dai (China) 964

Antimicrobial, antioxidant, mutagenic and antimutagenic activities of *Distephanus angulifolius* and *Ormocarpum trichocarpum*
J.C. Chukwujekwu, S.O. Amoo, J. Van Staden (South Africa) 975

Comparative biological study of roots, stems, leaves, and seeds of *Angelica shikokiana* Makino
A. Mira (Japan, Egypt), A. Tanaka, Y. Tateyama, R. Kondo, K. Shimizu (Japan) 980

Brine shrimp toxicity and antimalarial activity of some plants traditionally used in treatment of malaria in Msambweni district of Kenya
J.M. Nguta, J.M. Mbaria (Kenya) 988

Ethnopharmacological Communications

Novel bisabolane derivative from “arnica-da-serra” (*Vernoniae*: Asteraceae) reduces pro-nociceptive cytokines levels in LPS-stimulated rat macrophages
D. Petinatti Pavarini, E.F. Nogueira, D.R. Callejon, D.M. Soares, G.E.P. de Souza, F. de Queiroz Cunha, J.L.C. Lopes, N.P. Lopes (Brazil) 993

Methanol extract of *Evodia lepta* displays Syk/Src-targeted anti-inflammatory activity
J.Y. Yoon, H.Y. Jeong, S.H. Kim, H.G. Kim, G. Nam, J.P. Kim, D.H. Yoon, H. Hwang, T.W. Kim, S. Hong, J.Y. Cho (Republic of Korea) 999

Treatment of irritable bowel syndrome using a selected herbal combination of iraqi folk medicines
A.S. Sahib (Iraq) 1008

Inhibition of TNF- α production in LPS-activated THP-1 monocytic cells by the crude extracts of seven Bhutanese medicinal plants
P. Wangchuk, P.A. Keller, S.G. Pyne (Australia), M. Taweechotipatr (Thailand) 1013



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- Senecio scandens* Buch.-Ham.: A review on its ethnopharmacology, phytochemistry, pharmacology, and toxicity
D. Wang, L. Huang, S. Chen (China) 1
- Deoxypodophyllotoxin: A promising therapeutic agent from herbal medicine
M. Khaled, Z.-Z. Jiang, L.-Y. Zhang (China) 24
- Traditional uses, phytochemistry, pharmacology, pharmacokinetics and quality control of *Polyporus umbellatus* (Pers.) Fries:
A review
Y.-Y. Zhao (PR China) 35

Research Papers

- Comparative pharmacokinetics of swertiamarin in rats after oral administration of swertiamarin alone, Qing Ye Dan tablets and co-administration of swertiamarin and oleanolic acid
G.-l. Xu, H.-l. Li, J.-c. He, E.-f. Feng, P.-p. Shi, Y.-q. Liu, C.-x. Liu (PR China) 49
- Comparative pharmacokinetics and bioavailability of four alkaloids in different formulations from *Corydalis decumbens*
C. Wu, R. Yan, R. Zhang (China), F. Bai (Japan), Y. Yang, Z. Wu, A. Wu (China) 55
- Phytochemical study guided by the myorelaxant activity of the crude extract, fractions and constituent from stem bark of *Hymenaea courbaril* L.
G.P. Bezerra, R.W.d.S. Góis, T.S.d. Brito, F.J.B.d. Lima, M.A.M. Bandeira, N.R. Romero, P.J.C. Magalhães, G.M.P. Santiago (Brazil) 62
- Mutagenicity and genotoxicity effects of *Lignosus rhinocerotis* mushroom mycelium
T.-I. Chen, H.-W. Zhuang, Y.-C. Chiao, C.-C. Chen (Taiwan) 70
- Extracts of *Crinum latifolium* inhibit the cell viability of mouse lymphoma cell line EL4 and induce activation of anti-tumour activity of macrophages *in vitro*
H.-Y.T. Nguyen (Vietnam, France), B.-H.T. Vo, L.-T.H. Nguyen (Vietnam), J. Bernad, M. Alaeddine, A. Coste, K. Reybier, B. Pipy, F. Nepveu (France) 75
- Propolis and its constituent caffeic acid suppress LPS-stimulated pro-inflammatory response by blocking NF- κ B and MAPK activation in macrophages
M.C. Búfalo (Brasil, Portugal), I. Ferreira, G. Costa, V. Francisco, J. Liberal, M.T. Cruz, M.C. Lopes, M.T. Batista (Portugal), J.M. Sforcin (Brasil) 84
- Brain region-specific reduction in c-Fos expression associated with an anxiolytic effect of yokukansan in rats
H. Shoji, K. Mizoguchi (Japan) 93
- Exploration of the wound healing potential of *Helichrysum graveolens* (Bieb.) Sweet: Isolation of apigenin as an active component
I. Süntar, E. Küpeli Akkol, H. Keles, E. Yesilada (Turkey), S.D. Sarker (United Kingdom) 103
- Synergistic postprandial blood glucose modulatory properties of *Vernonia amygdalina* (Del.), *Gongronema latifolium* (Benth.) and *Occimum gratissimum* (Linn.) aqueous decoctions
C.E.C.C. Ejike, S.O. Awazie, P.A. Nwangozi, C.D. Godwin (Nigeria) 111

(Contents continued on BM)



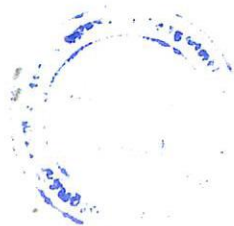
(contents continued from outside back cover)

- Mineral constituents and toxicological profile of *Jateorhiza macrantha* (Menispermaceae) aqueous extract
B.-F. Aboubakar Oumarou, L.M. Tchuendem, P.D. Dzeufiet Djomeni, D.C. Bilanda, E.N. Lemba Tom, M.T. Bella Ndzana, D. Théophile (Cameroon) 117
- Crude extract and purified components isolated from the stems of *Tinospora crispa* exhibit positive inotropic effects on the isolated left atrium of rats
S. Praman (Thailand), M.J. Mulvany (Denmark), D.E. Williams, R.J. Andersen (Canada), C. Jansakul (Thailand) 123
- Acute oral toxicity and genotoxicity of *Dryopteris crassirhizoma*
Y.-H. Hwang, H. Ha, J.Y. Ma (South Korea) 133
- Abarema cochliacarpus* reduces LPS-induced inflammatory response in murine peritoneal macrophages regulating ROS-MAPK signal pathway
S. Sánchez-Fidalgo (Spain), M.S. da Silva (Brazil), A. Cárdeno, M. Aparicio-Soto (Spain), M.J. Salvador, A.C.H. Frankland Sawaya, A.R.M. Souza-Brito (Brazil), C.A. de la Lastra (Spain) 140
- Lilium lancifolium* Thunb. extract attenuates pulmonary inflammation and air space enlargement in a cigarette smoke-exposed mouse model
E. Lee, N. Yun, Y.P. Jang, J. Kim (Republic of Korea) 148
- Involvement of bradykinin and prostaglandins in the diuretic effects of *Achillea millefolium* L. (Asteraceae)
P. de Souza, S. Crestani, R.d.C.V. da Silva, F. Gasparotto, C.A.L. Kassuya, J.E. da Silva-Santos, A. Gasparotto Junior (Brazil) 157
- A fraction of stem bark extract of *Entada africana* suppresses lipopolysaccharide-induced inflammation in RAW 264.7 cells
B. Ayissi Owona (Germany, Cameroon), N.F. Njyou (Cameroon), S. Laufer (Germany), P.F. Moundipa (Cameroon), H.J. Schluesener (Germany) 162
- The root barks of *Morus alba* and the flavonoid constituents inhibit airway inflammation
H.J. Lim, H.-G. Jin, E.-R. Woo, S.K. Lee, H.P. Kim (South Korea) 169
- In vivo* antimalarial activity of *Keetia leucantha* twigs extracts and *in vitro* antiplasmodial effect of their constituents
J. Bero, M.-F. Hérent (Belgium), G. Schmeda-Hirschmann (Chile), M. Frédérick, J. Quetin-Leclercq (Belgium) 176
- Inhibition of HIV-1 enzymes, antioxidant and anti-inflammatory activities of *Plectranthus barbatus*
P. Kapewangolo, A.A. Hussein, D. Meyer (South Africa) 184
- Anti-inflammatory activity of *Markhamia tomentosa* (Benth.) K. Schum. Ex Engl. ethanolic leaf extract
A. Sowemimo, F. Samuel, M.S. Fageyinbo (Nigeria) 191
- Antimycobacterial activity of *Citrullus colocynthis* (L.) Schrad. against drug sensitive and drug resistant *Mycobacterium tuberculosis* and MOTT clinical isolates
A. Mehta, G. Srivastva, S. Kachhwaha, M. Sharma, S.L. Kothari (India) 195
- Eurycomanone, the major quassinoid in *Eurycoma longifolia* root extract increases spermatogenesis by inhibiting the activity of phosphodiesterase and aromatase in steroidogenesis
B.-S. Low, S.-B. Choi, H. Abdul Wahab, P. Kumar Das, K.-L. Chan (Malaysia) 201
- Efficacy of *Withania somnifera* on seminal plasma metabolites of infertile males: A proton NMR study at 800 MHz
A. Gupta, A.A. Mahdi, K.K. Shukla, M.K. Ahmad, N. Bansal, P. Sankhwar, S.N. Sankhwar (India) 208
- Inhibition of aldose reductase by *Aegle marmelos* and its protective role in diabetic cataract
V. Sankeshi, P. Anil Kumar, R. Ravindar Naik, G. Sridhar, M. Praveen Kumar, V.V. Hara Gopal, T. Naga Raju (India) 215
- In vitro* antioxidant and anti-inflammatory activities of extracts from *Potentilla recta* and its main ellagitannin, agrimoniin
A. Bazylo, J.P. Piwowarski, A. Filipek, J. Bonarewicz, M. Tomczyk (Poland) 222
- Toxicity evaluation of standardized extract of *Gynostemma pentaphyllum* Makino
N. Chiranthanut, S. Teekachunhatean, A. Panthong, P. Khonsung, D. Kanjanapothi, N. Lertprasertsuk (Thailand) 228
- Is aristolochic acid nephropathy a widespread problem in developing countries? A case study of *Aristolochia indica* L. in Bangladesh using an ethnobotanical-phytochemical approach
J. Michl, H.M. Jennings, G.C. Kite, M.J. Ingrouille, M.S.J. Simmonds (United Kingdom), M. Heinrich (United Kingdom, Kingdom of Saudi Arabia) 235
- Cytotoxicity and modes of action of four Cameroonian dietary spices ethno-medically used to treat Cancers: *Echinops giganteus*, *Xylopiya aethiopica*, *Imperata cylindrica* and *Piper capense*
V. Kuete (Germany, Cameroon), L.P. Sandjo (Cameroon), B. Wiench, T. Efferth (Germany) 245
- In vitro* and *in vivo* immunostimulatory effects of hot water extracts from the leaves of *Artemisia princeps* Pampanini cv. Sajabal
T.-H. Kim, S.-J. Lee, H.-K. Rim, J.-S. Shin, J.-Y. Jung, J.-S. Heo, J.-B. Kim, M.-S. Lee, K.-T. Lee (Republic of Korea) 254
- Inhibition of pancreatic lipase, α -glucosidase, α -amylase, and hypolipidemic effects of the total flavonoids from *Nelumbo nucifera* leaves
S. Liu, D. Li, B. Huang, Y. Chen, X. Lu, Y. Wang (P.R. China) 263
- Huang-Lian-Jie-Du-Decotion induced protective autophagy against the injury of cerebral ischemia/reperfusion via MAPK-mTOR signaling pathway
P.-R. Wang, J.-S. Wang, C. Zhang, X.-F. Song, N. Tian, L.-Y. Kong (People's Republic of China) 270

Continued on next page

Continued from previous page

- Ojeok-san, a traditional Korean herbal medicine attenuates airway inflammation and pulmonary fibrosis induced by repeated ovalbumin challenge
I. Sik Shin, M. Young Lee, W. Young Jeon, J. Choon Kim, H. Kyoo Shin (Republic of Korea) 281
- Potent anti-cervical cancer activity: Synergistic effects of Thai medicinal plants in recipe N040 selected from the MANOSROI III database
W. Kitdamrongtham, A. Manosroi, H. Akazawa (Thailand), A. Gidado (Thailand, Nigeria), P. Stienrut, W. Manosroi (Thailand), W. Lohcharoenkal (USA), T. Akihisa (Japan), J. Manosroi (Thailand) 288
- Antitussive, expectorant and bronchodilating effects of ethanol extract of *Sorghum bicolor* (L.) Moench roots
Q. Zhou, D. Liang, A. Deng, J. Zhang, C. Wu, Z. Nie, J. jiang, Y. Wang (China) 297
- General toxicity of *Pinellia ternata* (Thunb.) Berit. in rat: A metabonomic method for profiling of serum metabolic changes
Z.-H. Zhang, Y.-Y. Zhao, X.-l. Cheng, Z. Dai, C. Zhou, X. Bai, R.-C. Lin (China) 303
- Urinary metabonomics study on toxicity biomarker discovery in rats treated with *Xanthii Fructus*
F. Lu, M. Cao, B. Wu, X.-z. Li, H.-y. Liu, D.-z. Chen, S.-m. Liu (PR China) 311
- Aqueous extract of Bai-Hu-Tang, a classical Chinese herb formula, prevents excessive immune response and liver injury induced by LPS in rabbits
S. Zhang, D. Wang, X. Wang, S. Li, J. Li, H. Li, Z. Yan (China) 321
- Male contraceptive efficacy of *Ricinus communis* L. extract
S. Nath, M. Dutta Choudhury, S. Roychoudhury, A.D. Talukdar, M.M. Misro (India) 328
- Evaluation of the wound healing activity of *Shorea robusta*, an Indian ethnomedicine, and its isolated constituent(s) in topical formulation
H. Mukherjee, D. Ojha, Y.P. Bharitkar, S. Ghosh, S. Mondal, S. Kaity, S. Dutta, A. Samanta, T.K. Chatterjee, S. Chakrabarti, N.B. Mondal, D. Chattopadhyay (India) 335
- Analysis of traditional knowledge in medicinal plants used by Yuan in Thailand
A. Inta, P. Trisonthi, C. Trisonthi (Thailand) 344
- Preventive and therapeutic effects of Danhong injection on lipopolysaccharide induced acute lung injury in mice
L.-M. Wan, L. Tan, Z.-R. Wang, S.-X. Liu, Y.-L. Wang, S.-Y. Liang, J.-B. Zhong, H.-S. Lin (China) 352
- Glycyrrhiza and Uncaria Hook contribute to protective effect of traditional Japanese medicine yokukansan against amyloid β oligomer-induced neuronal death
H. Kanno, Z. Kawakami, S. Iizuka, M. Tabuchi, K. Mizoguchi, Y. Ikarashi, Y. Kase (Japan) 360
- Toxicity assessment of Leonuri Herba aqueous extract orally administered to rats for 13 consecutive weeks
S.-R. Han, H.-Y. Han, B.-S. Lee, B.-S. Min, M.-K. Chung, J. Young Jeong, H.-s. Roh, J. Hyeon Seok, S. Kyum Kim (Republic of Korea) 371
- Topical application of serine proteases from *Wrightia tinctoria* R. Br. (Apocyanaceae) latex augments healing of experimentally induced excision wound in mice
M. Yariswamy (India), H.V. Shivaprasad (USA), V. Joshi, A.N. Nanjaraj Urs (India), A. Nataraju (USA), B.S. Vishwanath (India) 377
- Corrigendum*
- Corrigendum to "Myelophil attenuates brain oxidative damage by modulating the hypothalamus-pituitary-adrenal (HPA) axis in a chronic cold-stress mouse model" [J. Ethnopharmacol. 148 (2) (2013) 505-514]
H.-G. Kim, J.-S. Lee, J.-M. Han, J.-S. Lee, M.-K. Choi, S.-W. Son, Y.-K. Kim, C.-G. Son (Republic of Korea) 384





CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- The genus *Tulbaghia* (Alliaceae)—A review of its ethnobotany, pharmacology, phytochemistry and conservation needs
A.O. Aremu, J. Van Staden (South Africa) 387
- Review on *Cardamine diphylla* (Michx.) A. wood (*Brassicaceae*): Ethnobotany and glucosinolate chemistry
S. Montaut, R.S. Bleeker (Canada) 401
- Fumigation in Ayurveda: Potential strategy for drug discovery and drug delivery
C.N. Vishnuprasad (South Korea), N.S. Pradeep (India), Y.W. Cho (South Korea), G.G. Gangadharan (India), S.S. Han (South Korea) 409

Research Papers

- Anti-inflammatory and antinociceptive effects of hydroalcoholic extract from *Pseudobombax marginatum* inner bark from caatinga potiguar
D.C.C. Paiva, C.A.d. Santos, J.C. Diniz, F.A. Viana, S.M. Thomazzi, D.A. Falcão (Brazil) 416
- Correlation among cytotoxicity, hemolytic activity and the composition of steroidal saponins from *Paris L.*
Z. Liu, W. Gao, S. Jing, Y. Zhang, S. Man, Y. Wang, J. Zhang, C. Liu (China) 422
- Antimicrobial, anti-inflammatory activities and toxicology of phenylethanoid glycosides from *Monochasma savatieri* Franch. ex Maxim
Y.-l. Liu, W.-j. He, L. Mo, M.-f. Shi, Y.-y. Zhu, S. Pan, X.-r. Li, Q.-m. Xu, S.-l. Yang (China) 431
- In vitro* and *in vivo* antimalarial activity and cytotoxicity of extracts and fractions from the leaves, root-bark and stem-bark of *Triclisia gillettii*
C.M. Kikueta, O.K. Kambu, A.P. Mbenza, S.T. Mavinga, B.M. Mbamu (Democratic Republic of Congo), P. Cos, L. Maes, S. Apers, L. Pieters (Belgium), R.K. Cimanga (Democratic Republic of Congo, Belgium) 438
- Pharmacokinetic comparisons of two different combinations of Shaoyao-Gancao Decoction in rats: Competing mechanisms between paeoniflorin and glycyrrhetic acid
C.-H. Xu, P. Wang, Y. Wang, Y. Yang, D.-H. Li, H.-F. Li, S.-Q. Sun, X.-Z. Wu (PR China) 443
- The rise of traditional Chinese medicine and its *materia medica*: A comparison of the frequency and safety of materials and species used in Europe and China
E.M. Williamson, A. Lorenc, A. Booker, N. Robinson (UK) 453
- Monoterpene bisindole alkaloids, from the African medicinal plant *Tabernaemontana elegans*, induce apoptosis in HCT116 human colon carcinoma cells
T.A. Mansoor, P.M. Borralho, S. Dewanjee (Portugal), S. Mulhovo (Mozambique), C.M.P. Rodrigues, M.-J.U. Ferreira (Portugal) 463
- Anti-inflammatory activities of *Dictamnus dasycarpus* Turcz., root bark on allergic contact dermatitis induced by dinitrofluorobenzene in mice
H. Kim, M. Kim, H. Kim, G. San Lee, W. Gun An, S. In Cho (South Korea) 471
- Wen Luo Yin inhibits angiogenesis in collagen-induced arthritis rat model and *in vitro*
C. Liu, X. Kong, X. Li, W. Guo, C. Zhang, Y. Sun, X. Su, X. Liu, A. Lu, N. Lin (China) 478

(Contents continued on BM)



| | |
|---|-----|
| Constituents from <i>Terminalia</i> species increase PPAR α and PPAR γ levels and stimulate glucose uptake without enhancing adipocyte differentiation | |
| M.H. Yang, Y. Vasquez, Z. Ali, I.A. Khan, S.I. Khan (USA) | 490 |
| A bioactivity-guided study on the anti-diarrheal activity of <i>Polygonum chinense</i> Linn | |
| H.-T. Xiao, S.-W. Tsang, H.-Y. Qin, F.F.K. Choi, Z.-J. Yang, Q.-B. Han, H.-B. Chen (Hong Kong), H.-X. Xu, H. Shen (China), A.-P. Lu, Z.-X. Bian (Hong Kong) | 499 |
| Inhibitory effect of <i>Coptis chinensis</i> on inflammation in LPS-induced endotoxemia | |
| Y.Y. Choi, M.H. Kim, I.-H. Cho, J.H. Kim, J. Hong, T.H. Lee, W.M. Yang (Republic of Korea) | 506 |
| Medicinal plants from open-air markets in the State of Rio de Janeiro, Brazil as a potential source of new antimycobacterial agents | |
| F. Leitão, S.G. Leitão, M.Z. de Almeida, J. Cantos, T. Coelho, P.E.A. da Silva (Brazil) | 513 |
| Aqueous root extracts from <i>Mimosa albida</i> Humb. & Bonpl. ex Willd display antinociceptive activity in mice | |
| J.C. Rejón-Orantes, D.P. Perdomo Suárez, A. Rejón-Rodríguez, S. Hernández Hernández, O.E. García Liévano, D. López Rodríguez, M. Pérez de la Mora (Mexico) | 522 |
| Tumoral cytotoxic and antioxidative phenylpropanoid glycosides in <i>Smilax riparia</i> A. DC | |
| W.-X. Wang, T.-X. Li, H. Ma, J.-F. Zhang, A.-Q. Jia (China) | 527 |
| Medicinal plants used for dermatological affections in Navarra and their pharmacological validation | |
| R.Y. Cavero, S. Akerreta, M.I. Calvo (Spain) | 533 |
| Effect of Chinese herbs on CYP3A4 activity and expression <i>in vitro</i> | |
| C. Lau, K.D. Mooiman, R.F. Maas-Bakker, J.H. Beijnen, J.H.M. Schellens, I. Meijerman (The Netherlands) | 543 |
| Effects of magnolialide isolated from the leaves of <i>Laurus nobilis</i> L. (Lauraceae) on immunoglobulin E-mediated type I hypersensitivity <i>in vitro</i> | |
| T. Lee, S. Lee, K. Ho Kim, K.-B. Oh, J. Shin, W. Mar (Republic of Korea) | 550 |
| Conservation strategy for <i>Pelargonium sidoides</i> DC: Phenolic profile and pharmacological activity of acclimatized plants derived from tissue culture | |
| M. Moyo, A.O. Aremu (South Africa), J. Gruz, M. Šubrtová, L. Szüčová, K. Doležal (Czech Republic), J. Van Staden (South Africa) | 557 |
| A novel concept for detoxification: Complexation between aconitine and liquiritin in a Chinese herbal formula ('Sini Tang') | |
| K. Peter, J. Schinnerl, S. Felsinger, L. Brecker, R. Bauer, H. Breiteneder (Austria), R. Xu (China), Y. Ma (Austria) | 562 |
| Non-toxic melanin production inhibitors from <i>Garcinia livingstonei</i> (Clusiaceae) | |
| D.A. Mulholland (United Kingdom, South Africa), E.M. Mwangi (Kenya, South Africa), N.C. Dlova (South Africa), N. Plant (United Kingdom), N.R. Crouch, P.H. Coombes (South Africa) | 570 |
| Berberine metabolites exhibit triglyceride-lowering effects via activation of AMP-activated protein kinase in Hep G2 cells | |
| S. Cao, Y. Zhou, P. Xu, Y. Wang, J. Yan, W. Bin, F. Qiu, N. Kang (PR China) | 576 |
| Pharmacological classification of herbal extracts by means of comparison to spectral EEG signatures induced by synthetic drugs in the freely moving rat | |
| W. Dimpfel (Germany) | 583 |
| Inhibition of venom serine proteinase and metalloproteinase activities by <i>Renealmia alpinia</i> (Zingiberaceae) extracts: Comparison of wild and <i>in vitro</i> propagated plants | |
| A. Camilo Patiño, D. María Benjumea, J. Andrés Pereañez (Colombia) | 590 |
| <i>Ethnopharmacological Communication</i> | |
| Effects of red ginseng extract on sleeping behaviors in human volunteers | |
| H. Jeong Han, H. Yun Kim, J. Joon Choi, S.-Y. Ahn, S.-H. Lee, K.-W. Oh, S.-Y. Kim (Republic of Korea) | 597 |





CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Review

- Chinese herbal medicine-derived compounds for cancer therapy: A focus on hepatocellular carcinoma
Y. Hu, S. Wang, X. Wu, J. Zhang, R. Chen, M. Chen, Y. Wang (China) 601

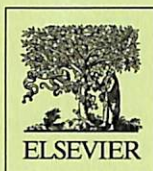
Research Papers

- New compounds, chemical composition, antifungal activity and cytotoxicity of the essential oil from *Myrtus nivellei* Batt. & Trab., an endemic species of Central Sahara
A. Bouzabata, O. Bazzali (France), C. Cabral, M.J. Gonçalves, M.T. Cruz (Portugal), A. Bighelli (France), C. Cavaleiro (Portugal), J. Casanova (France), L. Salgueiro (Portugal), F. Tomi (France) 613
- Neuropharmacological screening of essential oil from oleo gum resin of *Gardenia lucida* Roxb
M.Z. Shareef, N.R. Yellu, V.N.A.R. Achanta (India) 621
- Illicium verum* extract suppresses IFN- γ -induced ICAM-1 expression via blockade of JAK/STAT pathway in HaCaT human keratinocytes
Y.-Y. Sung, H.K. Kim (Republic of Korea) 626
- An ethnobotanical study of medicinal plants in Turgutlu (Manisa—Turkey)
G. Bulut, E. Tuzlaci (Turkey) 633
- Pulmonary effects and disposition of luteolin and *Artemisia afra* extracts in isolated perfused lungs
S. Joel Mjijiza, J. Abraham Syce, K. Chibuzo Obikeze (South Africa) 648
- Plants traditionally used individually and in combination to treat sexually transmitted infections in northern Maputaland, South Africa: Antimicrobial activity and cytotoxicity
D. Naidoo, S.F. van Vuuren, R.L. van Zyl, H. de Wet (South Africa) 656
- Poncirus trifoliolate fruit modulates pacemaker activity in interstitial cells of Cajal from the murine small intestine
B.J. Kim, H.W. Kim, G.S. Lee, S. Choi, J.Y. Jun, I. So, S.J. Kim (Republic of Korea) 668
- Both plants *Sebastiania chamaelea* from Niger and *Chrozophora senegalensis* from Senegal used in African traditional medicine in malaria treatment share a same active principle
M.-C. Garcia-Alvarez (France), I. Moussa (Niger), P. Njomnang Soh (France), R. Nongonierma (Sénégal), A. Abdoulaye (Niger), M.-L. Nicolau-Travers, A. Fabre, J. Wdzieczak-Bakala, A. Ahond, C. Poupat (France), K. Ikhiri (Niger), F. Benoit-Vical (France) 676
- Antinociceptive effect of *Mirabilis jalapa* on acute and chronic pain models in mice
C.I.B. Walker, G. Trevisan, M.F. Rossato, C.R. Silva, F.V. Pinheiro, C. Franciscato, E. Tatsch, M.B. Moretto, M.D. Silva, M.P. Manfron, R. Noal Moresco, A.R.S. Santos, M.E. Pereira, J. Ferreira (Brazil) 685
- Gastroprotective effects of the essential oil of *Hyptis crenata* Pohl ex Benth. on gastric ulcer models
L.R.L. Diniz, C.F.X. Vieira, E.C.d. Santos, G.C. Lima, K.K.V. Aragão, R.P. Vasconcelos, P.C.d.C. Araújo, Y.d.A.G. Vasconcelos, A.C.d. Oliveira, H.D.d. Oliveira, V.G. Portella, A.N. Coelho-de-Souza (Brazil) 694
- Sceptridium ternatum* extract exerts antiasthmatic effects by regulating Th1/Th2 balance and the expression levels of leukotriene receptors in a mouse asthma model
Y. Yuan, B. Yang, Z. Ye, M. Zhang, X. Yang, C. Xin, M. Lin, P. Huang (China) 701
- Fuzi-Lizhong pill compensates hypothyroid-hypothermia via ghrelin release
X. Zhao, S. Yang, W. Zhang, C. Zu, B. Tang, B. Zhang, G. Li, L. Su, D. Cai (China) 707

(Contents continued on BM)



- Comparisons on enhancing the immunity of fresh and dry *Cordyceps militaris* in vivo and in vitro
S.-j. Zhu, J. Pan, B. Zhao, J. Liang, Ze-yu. Wu, J.-j. Yang (People's Republic of China) 713
- Extracts from *Astragalus membranaceus* limit myocardial cell death and improve cardiac function in a rat model of myocardial ischemia
X. Ma, K. Zhang, H. Li, S. Han, Z. Ma, P. Tu (China) 720
- Antidiabetic effect of total flavonoids from *Sanguis draxonis* in type 2 diabetic rats
F. Chen, H. Xiong, J. Wang, X. Ding, G. Shu, Z. Mei (PR China) 729
- Hepatoprotective action of *Orthosiphon diffusus* (Benth.) methanol active fraction through antioxidant mechanisms: An *in vivo* and *in vitro* evaluation
H. Ghaffari, M. Venkataramana, S.C. Nayaka, B.J. Ghassam (India), N. Angaswamy (USA), S. Shekar, K.K. Sampath Kumara, H.S. Prakash (India) 737
- Antiproliferative and apoptosis inducing activity of *Markhamia tomentosa* leaf extract on HeLa cells
B. Ibrahim, A. Sowemimo (Nigeria), L. Spies, T. Koekomoer, M. van de Venter (South Africa), O.A. Odukoya (Nigeria) 745
- Ethnopharmacological *in vitro* studies on Austria's folk medicine—An unexplored lore *in vitro* anti-inflammatory activities of 71 Austrian traditional herbal drugs
S. Vogl, P. Picker, J. Mihaly-Bison, N. Fakhrudin, A.G. Atanasov, E.H. Heiss, C. Wawrosch, G. Reznicek, V.M. Dirsch, J. Saukel, B. Kopp (Austria) 750
- Amelioration of Danhong injection on the lipopolysaccharide-stimulated systemic acute inflammatory reaction via multi-target strategy
L.-N. Gao, Y.-L. Cui, Q.-S. Wang, S.-X. Wang (PR China) 772
- Studies on neuropharmacological profile of ethanol extract of *Moringa oleifera* leaves in mice
A.G. Bakre, A.O. Aderibigbe, O.G. Ademowo (Nigeria) 783
- Bitter plants used as substitute of *Cinchona* spp. (quina) in Brazilian traditional medicine
G.P. Cosenza, N.S. Somavilla, C.W. Fagg, M.G.L. Brandão (Brazil) 790
- Antimalarial and safety evaluation of *Pluchea lanceolata* (DC.) Oliv. & Hiern: *In-vitro* and *in-vivo* study
S. Mohanty, P. Srivastava, A.K. Maurya, H.S. Cheema, K. Shanker, S. Dhawan, M.P. Darokar, D.U. Bawankule (India) 797
- Antispasmodic effects and composition of the essential oils from two South American chemotypes of *Lippia alba*
M.A. Blanco, G.A. Colareda, C. van Baren, A.L. Bandoni, J. Ringuet, A.E. Consolini (Argentina) 803
- Gender-related pharmacokinetics and absolute bioavailability of diosbulbin B in rats determined by ultra-performance liquid chromatography-tandem mass spectrometry
B. Yang, X. Wang, W. Liu, Q. Zhang, K. Chen, Y. Ma, C. Wang, Z. Wang (China) 810
- A prospective, randomized, double-blind, multicenter comparative study on the safety and efficacy of Celecoxib and GCSB-5, dried extracts of six herbs, for the treatment of osteoarthritis of knee joint
Y.-G. Park, C.-W. Ha, C.-D. Han, S.-I. Bin, H.-C. Kim, Y.-B. Jung, H.-C. Lim (South Korea) 816
- Paeoniflorin, the main active constituent of *Paeonia lactiflora* roots, attenuates bleomycin-induced pulmonary fibrosis in mice by suppressing the synthesis of type I collagen
Y. Ji, T. Wang, Z.-f. Wei, G.-x. Lu, S.-d. Jiang, Y.-f. Xia, Y. Dai (China) 825
- Ethnopharmacological Communications*
- Acute and sub-chronic toxicity of HPLC fingerprinted extract of *Conyza sumatrensis* (Retz.) E.H. Walker in rodents
P. Kamdem Boniface (Cameroon, India), M. Singh, A. Kumar Maurya, A. Pal (India) 833
- Letter to the Editor*
- Evidence does not support the suggestion that gustatory exposure to bitter tastants reduces cardiac activity
M.K. McMullen (Sweden) 838
- Book Reviews*
- Medicinal Plants of Central Asia: Uzbekistan and Kyrgyzstan, Sasha W. Eisenman, David E. Zaurov, Lena Struwe (Eds.), Translated by D.E. Zaurov, S.W. Eisenman, Dilmurad A. Yunusov, Venera Isaeva, Springer, New York, Heidelberg, Dordrecht, London. Hardcover, 340 pages, \$180, numerous colour photos, bibliography, index, ISBN 978-1-4614-3911-0, ISBN 978-1-4614-3912-7 (eBook)
M. Heinrich (United Kingdom) 840
- Medicinal plants and the legacy of Richard E. Schultes, Bruce E. Ponman, Rainer W. Bussmann (Eds.), Proceedings of the Botany 2011 Symposium Honoring Richard E. Schultes, Missouri Botanical Garden (William E. Brown Center), St. Louis, MO, USA (2012). Softcover, 138 pages, \$24.95, paperback, b&w and colour photos, bibliographies, no index, ISBN: 978-0984841523
M. Heinrich (United Kingdom) 840



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *SciVerse Scopus*[®]. Full text available on *SciVerse ScienceDirect*[®]

Reviews

- The complexity of medicinal plants: The traditional *Artemisia annua* formulation, current status and future perspectives
F. van der Kooy, S.E. Sullivan (Australia) 1
- Guarana: Revisiting a highly caffeinated plant from the Amazon
F.C. Schimpl, J.F. da Silva, J.F.d.C. Gonçalves, P. Mazzafera (Brazil) 14
- Calotropis gigantea* (L.) R. Br (Apocynaceae): A phytochemical and pharmacological review
M. Kadiyala, S. Ponnusankar, K. Elango (India) 32
- Management of diabetic complications: A chemical constituents based approach
R. Singh, N. Kaur, L. Kishore, G. Kumar Gupta (India) 51

Research Papers

- Ethnobotanical survey of medicinal plants used in the treatment of malarial in Ogbomoso, Southwest Nigeria
O.S. Olorunnisola (South Africa, Nigeria), A. Adetutu, E.A. Balogun (Nigeria), A.J. Afolayan (South Africa) 71
- Use of herbal medicines during pregnancy in a group of Palestinian women
R. Al-Ramahi, N. Jaradat, D. Adawi (Palestine) 79
- Extracts from *Leonurus sibiricus* L. increase insulin secretion and proliferation of rat INS-1E insulinoma cells
S. Schmidt, M. Jakob (Austria), S. Jav (Austria, Mongolia), D. Streif, A. Pitschmann, M. Zehl (Austria), S. Purevsuren (Mongolia), S. Glasl, M. Ritter (Austria) 85
- NMR metabolomics for identification of adenosine A1 receptor binding compounds from *Boesenbergia rotunda* rhizomes extract
N.D. Yuliana (The Netherlands, Indonesia), S. Budijanto (Indonesia), R. Verpoorte, Y.H. Choi (The Netherlands) 95
- Scutellarin and caffeic acid ester fraction, active components of Dengzhanxin injection, upregulate neurotrophins synthesis and release in hypoxia/reoxygenation rat astrocytes
L. Chai, H. Guo, H. Li, S. Wang, Y.-l. Wang, F. Shi, L.-m. Hu, Y. Liu, D. Adah (China) 100
- Neuroprotective effects of *Polygonum multiflorum* extract against glutamate-induced oxidative toxicity in HT22 hippocampal cells
H.N. Kim, Y.R. Kim, J.Y. Jang, Y.W. Choi, J.U. Baek, J.W. Hong, Y.H. Choi, H.K. Shin, B.T. Choi (Republic of Korea) 108
- Baicalin can scavenge peroxynitrite and ameliorate endogenous peroxynitrite-mediated neurotoxicity in cerebral ischemia-reperfusion injury
M. Xu, X. Chen, Y. Gu, T. Peng, D. Yang, R.C.-C. Chang, K.-F. So (China), K. Liu (USA), J. Shen (China) 116
- Protective effects of cinnamic acid and cinnamic aldehyde on isoproterenol-induced acute myocardial ischemia in rats
F. Song, H. Li, J. Sun, S. Wang (China) 125
- Simultaneous determination of triptolide and its prodrug MC002 in dog blood by LC-MS/MS and its application in pharmacokinetic studies
X.-M. Zhuang, P.-X. Liu, Y.-J. Zhang, C.-K. Li, Y. Li, J. Wang, L. Zhou, Z.-Q. Zhang (PR China) 131
- Effect of ginsenoside Rg3 on tyrosine hydroxylase and related mechanisms in the forced swimming-induced fatigue rats
Y. Xu, P. Zhang, C. Wang, Y. Shan, D. Wang, F. Qian, M. Sun, C. Zhu (PR China) 138
- Effect of American ginseng (*Panax quinquefolius* L.) on arterial stiffness in subjects with type-2 diabetes and concomitant hypertension
I. Mucalo (Croatia), E. Jovanovski (Canada), D. Rahelić, V. Božikov, Ž. Romić (Croatia), V. Vuksan (Canada) 148

(Contents continued on BM)



(contents continued from outside back cover)

- Role of prostaglandin/cAMP pathway in the diuretic and hypotensive effects of purified fraction of *Maytenus ilicifolia* Mart ex Reissek (*Celastraceae*)
T. dos Santos Vilhena Leme, T. Bruno Lima Prando, F. Mourão Gasparotto, P. de Souza, S. Crestani, L. Mera de Souza, T. Ricardo Cipriani, E. Luiz Botelho Lourenço, A. Gasparotto Junior (Brazil) 154
- Where does the border lie: Locally grown plants used for making tea for recreation and/or healing, 1970s–1990s Estonia
R. Sõukand, R. Kalle (Estonia) 162
- The pharmacokinetics and oral bioavailability studies of columbianetin in rats after oral and intravenous administration
Q. Luo, C.-p. Wang, J. Li, W.-f. Ma, Y. Bai, L. Ma, X.-m. Gao, B.-l. Zhang, Y.-x. Chang (China) 175
- The anti-osteoporotic effect of velvet antler polypeptides from *Cervus elaphus* Linnaeus in ovariectomized rats
L.-Z. Zhang, J.-L. Xin, X.-P. Zhang, Q. Fu, Y. Zhang, Q.-L. Zhou (China) 181
- Polysaccharide from *Phellinus linteus* induces S-phase arrest in HepG2 cells by decreasing calreticulin expression and activating the P27kip1–cyclin A/D1/E–CDK2 pathway
Y.-G. Li, D.-F. Ji, S. Zhong, P.-G. Liu, Z.-Q. Lv, J.-X. Zhu, J.-E. Chen, H.-P. Chen (China) 187
- Relaxant effect of 1-butanol fraction from *Elaeagnus pungens* leaf through inhibiting l-type Ca²⁺ channel on guinea pig tracheal smooth muscle
Y.-b. Ge, Q. Dai, D.-r. Wan, Q.-h. Liu, Z.-n. Mei (PR China) 196
- Continuity and change in medicinal plant use: The example of monasteries on Cyprus and historical *iatrosophia* texts
A. Lardos (UK), M. Heinrich (UK, Kingdom of Saudi Arabia) 202
- Evaluating the anti-inflammatory potential of *Tectaria cicutaria* L. rhizome extract *in vitro* as well as *in vivo*
A.S. Choudhari, P. Raina, M.M. Deshpande, A.G. Wali, A. Zanwar, S.L. Bodhankar, R. Kaul-Ghanekar (India) 215
- Evaluation of the wound healing property of *Boesenbergia longiflora* rhizomes
T. Sudsai, C. Wattanapiromsakul, T. Nakpheng, S. Tewtrakul (Thailand) 223
- Traditional knowledge on medicinal plant of the Karen in northern Thailand: A comparative study
K. Tangjitman, C. Wongsawad, P. Winijchaiyanan, T. Sukkho, K. Kamwong, W. Pongamornkul, C. Trisonthi (Thailand) 232
- Antiedematogenic effects of the polar fractions of *Persea cordata* Mez. (Lauraceae) on microvascular extravasation in rat skin
V. Schlemper, S.R. de Mello Schlemper, J. Araújo Zampirolo (Brazil) 244
- Chemical composition and cellular toxicity of ethnobotanical-based hot and cold aqueous preparations of the tiger's milk mushroom (*Lignosus rhinocerotis*)
B.F. Lau, N. Abdullah, N. Aminudin, H.B. Lee (Malaysia) 252
- Antitumoural effect of *Synadenium grantii* Hook f. (Euphorbiaceae) latex
T.L. de Oliveira, A.C.M. Munhoz, B.M. Lemes, B.R. Minozzo, A. Nepel, A. Barison, G.M. Fávero, E.B. Campagnoli, F.L. Beltrame (Brazil) 263
- Bioguided isolation of myricetin-3-O-β-galactopyranoside with antinociceptive activity from the aerial part of *Davilla elliptica* St.-Hil
J.J. Campos, A. de Oliveira Azevedo, J. Dias de Souza Filho, A.C. Perez, F.C. Braga (Brazil) 270
- Toxicology, genotoxicity, and cytotoxicity of three extracts of *Solanum chrysotrichum*
L. Aguilar-Santamaría, A. Herrera-Arellano, A. Zamilpa, D. Alonso-Cortés, E. Jiménez-Ferrer, J. Tortoriello, G. Zúñiga-González (Mexico) 275
- In vivo* analgesic activity, toxicity and phytochemical screening of the hydroalcoholic extract from the leaves of *Psidium cattleianum* Sabine
F.Q. Alvarenga, B.C.F. Mota, M.N. Leite, J.M.S. Fonseca, D.A. Oliveira, V. de Andrade Royo, M.L.A. e Silva, V. Esperandim, A. Borges, R.S. Laurentiz (Brazil) 280
- Natural product vindoline stimulates insulin secretion and efficiently ameliorates glucose homeostasis in diabetic murine models
X.-g. Yao, F. Chen, P. Li, L. Quan, J. Chen, L. Yu, H. Ding, C. Li, L. Chen, Z. Gao, P. Wan, L. Hu, H. Jiang, X. Shen (China) 285
- Eriosema laurentii* De Wild (Leguminosae) methanol extract has estrogenic properties and prevents menopausal symptoms in ovariectomized Wistar rats
S.B. Ateba (Cameroon, Austria), D. Njamen (Cameroon), S. Medjakovic, S. Hobiger (Austria), J.C. Mbanya (Cameroon), A. Jungbauer, L. Krenn (Austria) 298
- Suppression of experimental abdominal aortic aneurysms in the mice by treatment with *Ginkgo biloba* extract (EGb 761)
L. Wang, Y. Bai, B. Wang, H. Cui, H. Wu, J.-R. Lv, Y. Mei, J.-S. Zhang, S. Liu, L.-W. Qi, Y. Chen (China) 308
- Gastroprotective activity of *Cenostigma macrophyllum* Tul. var. *acuminata* Teles Freire leaves on experimental ulcer models
A.F.S.C. Viana, H.B. Fernandes, F.V. Silva, I.S. Oliveira, F.F.B.P. Freitas, F.D.F. Machado, C.L.S. Costa, D.D.R. Arcanjo, M.H. Chaves, F.A. Oliveira, R.C.M. Oliveira (Brazil) 316
- Identification and analysis of absorbed components and their metabolites in rat plasma and tissues after oral administration of 'Ershiwuwei Shanhu' pill extracts by UPLC-DAD/Q-TOF-MS
X. Ying, M. Liu, Q. Liang, M. Jiang, Y. Wang, F. Huang, Y. Xie, J. Shao, G. Bai, G. Luo (People's Republic of China) 324

Continued on next page

(contents continued from outside back cover)

- Role of prostaglandin/cAMP pathway in the diuretic and hypotensive effects of purified fraction of *Maytenus ilicifolia* Mart ex Reissek (*Celastraceae*)
T. dos Santos Vilhena Leme, T. Bruno Lima Prando, F. Mourão Gasparotto, P. de Souza, S. Crestani, L. Mera de Souza, T. Ricardo Cipriani, E. Luiz Botelho Lourenço, A. Gasparotto Junior (Brazil) 154
- Where does the border lie: Locally grown plants used for making tea for recreation and/or healing, 1970s–1990s Estonia
R. Sõukand, R. Kalle (Estonia) 162
- The pharmacokinetics and oral bioavailability studies of columbianetin in rats after oral and intravenous administration
Q. Luo, C.-p. Wang, J. Li, W.-f. Ma, Y. Bai, L. Ma, X.-m. Gao, B.-l. Zhang, Y.-x. Chang (China) 175
- The anti-osteoporotic effect of velvet antler polypeptides from *Cervus elaphus* Linnaeus in ovariectomized rats
L.-Z. Zhang, J.-L. Xin, X.-P. Zhang, Q. Fu, Y. Zhang, Q.-L. Zhou (China) 181
- Polysaccharide from *Phellinus linteus* induces S-phase arrest in HepG2 cells by decreasing calreticulin expression and activating the P27kip1–cyclin A/D1/E–CDK2 pathway
Y.-G. Li, D.-F. Ji, S. Zhong, P.-G. Liu, Z.-Q. Lv, J.-X. Zhu, J.-E. Chen, H.-P. Chen (China) 187
- Relaxant effect of 1-butanol fraction from *Elaeagnus pungens* leaf through inhibiting l-type Ca²⁺ channel on guinea pig tracheal smooth muscle
Y.-b. Ge, Q. Dai, D.-r. Wan, Q.-h. Liu, Z.-n. Mei (PR China) 196
- Continuity and change in medicinal plant use: The example of monasteries on Cyprus and historical *iatrosophia* texts
A. Lardos (UK), M. Heinrich (UK, Kingdom of Saudi Arabia) 202
- Evaluating the anti-inflammatory potential of *Tectaria cicutaria* L. rhizome extract *in vitro* as well as *in vivo*
A.S. Choudhari, P. Raina, M.M. Deshpande, A.G. Wali, A. Zanwar, S.L. Bodhankar, R. Kaul-Ghanekar (India) 215
- Evaluation of the wound healing property of *Boesenbergia longiflora* rhizomes
T. Sudsai, C. Wattanapiromsakul, T. Nakpheng, S. Tewtrakul (Thailand) 223
- Traditional knowledge on medicinal plant of the Karen in northern Thailand: A comparative study
K. Tangjitman, C. Wongsawad, P. Winijchaiyanan, T. Sukkho, K. Kamwong, W. Pongamornkul, C. Trisonthi (Thailand) 232
- Antiedematogenic effects of the polar fractions of *Persea cordata* Mez. (Lauraceae) on microvascular extravasation in rat skin
V. Schlemper, S.R. de Mello Schlemper, J. Araújo Zampirolo (Brazil) 244
- Chemical composition and cellular toxicity of ethnobotanical-based hot and cold aqueous preparations of the tiger's milk mushroom (*Lignosus rhinocerotis*)
B.F. Lau, N. Abdullah, N. Aminudin, H.B. Lee (Malaysia) 252
- Antitumoural effect of *Synadenium grantii* Hook f. (Euphorbiaceae) latex
T.L. de Oliveira, A.C.M. Munhoz, B.M. Lemes, B.R. Minozzo, A. Nepel, A. Barison, G.M. Fávero, E.B. Campagnoli, F.L. Beltrame (Brazil) 263
- Bioguided isolation of myricetin-3-O-β-galactopyranoside with antinociceptive activity from the aerial part of *Davilla elliptica* St.-Hil
J.J. Campos, A. de Oliveira Azevedo, J. Dias de Souza Filho, A.C. Perez, F.C. Braga (Brazil) 270
- Toxicology, genotoxicity, and cytotoxicity of three extracts of *Solanum chrysotrichum*
L. Aguilar-Santamaría, A. Herrera-Arellano, A. Zamilpa, D. Alonso-Cortés, E. Jiménez-Ferrer, J. Tortoriello, G. Zúñiga-González (Mexico) 275
- In vivo* analgesic activity, toxicity and phytochemical screening of the hydroalcoholic extract from the leaves of *Psidium cattleianum* Sabine
F.Q. Alvarenga, B.C.F. Mota, M.N. Leite, J.M.S. Fonseca, D.A. Oliveira, V. de Andrade Royo, M.L.A. e Silva, V. Esperandim, A. Borges, R.S. Laurentiz (Brazil) 280
- Natural product vindoline stimulates insulin secretion and efficiently ameliorates glucose homeostasis in diabetic murine models
X.-g. Yao, F. Chen, P. Li, L. Quan, J. Chen, L. Yu, H. Ding, C. Li, L. Chen, Z. Gao, P. Wan, L. Hu, H. Jiang, X. Shen (China) 285
- Eriosema laurentii* De Wild (Leguminosae) methanol extract has estrogenic properties and prevents menopausal symptoms in ovariectomized Wistar rats
S.B. Ateba (Cameroon, Austria), D. Njamen (Cameroon), S. Medjakovic, S. Hobiger (Austria), J.C. Mbanya (Cameroon), A. Jungbauer, L. Krenn (Austria) 298
- Suppression of experimental abdominal aortic aneurysms in the mice by treatment with *Ginkgo biloba* extract (EGb 761)
L. Wang, Y. Bai, B. Wang, H. Cui, H. Wu, J.-R. Lv, Y. Mei, J.-S. Zhang, S. Liu, L.-W. Qi, Y. Chen (China) 308
- Gastroprotective activity of *Cenostigma macrophyllum* Tul. var. *acuminata* Teles Freire leaves on experimental ulcer models
A.F.S.C. Viana, H.B. Fernandes, F.V. Silva, I.S. Oliveira, F.F.B.P. Freitas, F.D.F. Machado, C.L.S. Costa, D.D.R. Arcanjo, M.H. Chaves, F.A. Oliveira, R.C.M. Oliveira (Brazil) 316
- Identification and analysis of absorbed components and their metabolites in rat plasma and tissues after oral administration of 'Ershiwuwei Shanhu' pill extracts by UPLC-DAD/Q-TOF-MS
X. Ying, M. Liu, Q. Liang, M. Jiang, Y. Wang, F. Huang, Y. Xie, J. Shao, G. Bai, G. Luo (People's Republic of China) 324

Continued on next page

Continued from previous page

- SDF7, a group of *Scoparia dulcis* Linn. derived flavonoid compounds, stimulates glucose uptake and regulates adipocytokines in 3T3-F442a adipocytes
 J.E. Beh, L.T. Khoo, J. Latip, M.P. Abdullah, N.B.M. Alitheen, Z. Adam, A. Ismail, M. Hamid (Malaysia) 339
- Ethnomedicinal plants used for treating epilepsy by indigenous communities of sub-Himalayan region of Uttarakhand, India
 J. Sharma, S. Gairola, R.D. Gaur, R.M. Painuli, T.O. Siddiqi (India) 353
- Neuroprotective effect of Liuwei Dihuang decoction on cognition deficits of diabetic encephalopathy in streptozotocin-induced diabetic rat
 J.-p. Liu, L. Feng, M.-h. Zhang, D.-y. Ma, S.-y. Wang, J. Gu, Q. Fu, R. Qu, S.-p. Ma (PR China) 371
- Physalin F from *Physalis minima* L. triggers apoptosis-based cytotoxic mechanism in T-47D cells through the activation caspase-3- and c-myc-dependent pathways
 K.L. Ooi, T.S.T. Muhammad, S.F. Sulaiman (Malaysia) 382
- Ethnopharmacological communication*
- Modulation effect of *Smilax glabra* flavonoids on ryanodine receptor mediated intracellular Ca²⁺ release in cardiomyoblast cells
 Q. Shou, S. Pan, J. Tu, J. Jiang, Y. Ling, Y. Cai, M. Chen, D. Wang (China) 389
- Book Review*
- Herbal Medicines, Pharmaceutical Press Editorial, Pharmaceutical Press, London (2013), 4th revised edition. Hardcover, 912 pages, £ 99, numerous colour photos, numerous chemical line drawings, bibliography for each monograph, index, ISBN: 978 0 85711 035 0. Also available online via MedicinesComplete®
 M. Heinrich (United Kingdom) 393

CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *Scopus*[®]. Full text available on *ScienceDirect*[®]

Reviews

- Medicinal uses, phytochemistry and pharmacology of *Pongamia pinnata* (L.) Pierre: A review
L.M.R. Al Muqarrabun, N. Ahmat, S.A.S. Ruzaina, N.H. Ismail (Malaysia), I. Sahidin (Indonesia) 395
- Safed musli (*Chlorophytum borivilianum*): A review of its botany, ethnopharmacology and phytochemistry
Z. Khanam (Malaysia), O. Singh, R. Singh (India), I.U.H. Bhat (Malaysia) 421
- Effects of *Hibiscus sabdariffa* L. on serum lipids: A systematic review and meta-analysis
Z. Aziz, S.Y. Wong, N.J. Chong (Malaysia) 442

Research papers

- Enzymatic, antimicrobial and toxicity studies of the aqueous extract of *Ananas comosus* (pineapple) crown leaf
S. Dutta, D. Bhattacharyya (India) 451
- Antiinflammatory effects of *Viola tricolor* gel in a model of sunburn in rats and the gel stability study
M. Piana, M.A. Silva, G. Trevisan, T.F.d. Brum, C.R. Silva, A.A. Boligon, S.M. Oliveira, M. Zadra, C. Hoffmeister, M.F. Rossato, R. Tonello, L.V. Laporta, R.B.d. Freitas, B.V. Belke, R.d.S. Jesus, J. Ferreira, M.L. Athayde (Brazil) 458
- Moderation of hematological and plasma biochemical indices of sub-chronic salt-loaded rats by aqueous extract of the sclerotia of *Pleurotus tuberregium* (Fr) Sing's: Implications for the reduction of cardiovascular risk
J.C. Ikewuchi, C.C. Ikewuchi, M.O. Ifeancha, N.M. Igboh, I.I. Ijeh (Nigeria) 466
- Pharmacokinetic changes of unbound theophylline are due to plasma protein binding displacement and CYP1A2 activity inhibition by baicalin in rats
N. Gao, Y. Fang, B. Qi, L.-j. Jia, H. Jin, H.-l. Qiao (China) 477
- In vitro* characterization of ABC transporters involved in the absorption and distribution of liensinine and its analogs
L. Yu, Q. Shen, Q. Zhou, H. Jiang, H. Bi, M. Huang, H. Zhou, S. Zeng (China) 485
- Phytosynergy in some *Hypoxis* species and pharmacological properties of a *Hypoxis*-based phytopharmaceutical formula
A.R. Ndhkala, G.I. Stafford, J. Van Staden (South Africa) 492
- Comparison of active constituents, acute toxicity, anti-nociceptive and anti-inflammatory activities of *Porana sinensis* Hemsl., *Erycibe obtusifolia* Benth. and *Erycibe schmidtii* Craib
Z. Chen, L. Liao, Z. Zhang, L. Wu, Z. Wang (People's Republic of China) 501
- Combined antihypertensive effect of luteolin and buddleioside enriched extracts in spontaneously hypertensive rats
G.-Y. Lv, Y.-P. Zhang, J.-L. Gao, J.-J. Yu, J. Lei, Z.-R. Zhang, B. Li, R.-J. Zhan, S.-H. Chen (PR China) 507
- Yeast exposure in the preparation of steamed rehmannia root improving its effects on alloxan-induced diabetic rats
Y. Sun, X. Wen, Y. Zhao, T. Shen, Z. Liu, H. Gao, S. Qiu, Y. Chen (China) 514
- Jiawei-Yupingfeng-Tang, a Chinese herbal formula, inhibits respiratory viral infections *in vitro* and *in vivo*
Q. Liu, L. Lu, M. Hua, Y. Xu, H. Xiong, W. Hou, Z. Yang (PR China) 521
- Anti-fatigue activity of polysaccharides from the fruits of four Tibetan plateau indigenous medicinal plants
W. Ni, T. Gao, H. Wang, Y. Du, J. Li, C. Li, L. Wei, H. Bi (China) 529
- Antidiabetic effects of *Swertia macrosperma* extracts in diabetic rats
Y.-L. Wang, Z.-Q. Xiao, S. Liu, L.-S. Wan, Y.-D. Yue, Y.-T. Zhang, Z.-X. Liu, J.-C. Chen (People's Republic of China) 536
- Dolichos falcata* Klein attenuated the inflammation induced by monosodium urate crystals *in vivo* and *in vitro*
L. Chen, M. Mola, X. Deng, Z. Mei, X. Huang, G. Shu, L. Wei, X. Hou, Z. Lan, Q. Lin (PR China) 545

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|---|-----|
| Elucidation of the transport mechanism of baicalin and the influence of a <i>Radix Angelicae Dahuricae</i> extract on the absorption of baicalin in a Caco-2 cell monolayer model | 553 |
| M.-L. Zhu, X.-L. Liang, L.-J. Zhao, Z.-G. Liao, G.-W. Zhao, Y.-C. Cao, J. Zhang, Y. Luo (China) | |
| Assessment of pyrrolizidine alkaloid-induced toxicity in an <i>in vitro</i> screening model | 560 |
| Y.H. Li, W.L.T. Kan, N. Li, G. Lin (China) | |
| Isolation and identification of an anti-hepatitis B virus compound from <i>Hydrocotyle sibthorpioides</i> Lam | 568 |
| Q. Huang, S. Zhang, R. Huang, L. Wei, Y. Chen, S. Lv, C. Liang, S. Tan, S. liang (China), L. Zhuo (Singapore), X. Lin (China) | |
| Evaluation of the toxicity and antimicrobial activity of hydroethanolic extract of <i>Arrabidaea chica</i> (Humb. & Bonpl.) B. Verl. | 576 |
| L. Mafioleti, I.F. da Silva Junior, E.M. Colodel, A. Flach, D.T.d.O. Martins (Brazil) | |
| Antinociceptive effects of ethanolic extract from the flowers of <i>Acmella oleracea</i> (L.) R.K. Jansen in mice | 583 |
| E.C.O. Nomura, M.R.A. Rodrigues, C.F. da Silva, L.A. Hamm, A.M. Nascimento, L.M. de Souza, T.R. Cipriani, C.H. Baggio, M.F.d.P. Werner (Brazil) | |
| Acute toxicity, biochemical and haematological study of <i>Aframomum melegueta</i> seed oil in male Wistar albino rats | 590 |
| M.I. Akpanabiatu, N.D. Ekpo, U.F. Ufot, N.M. Udoh, E.J. Akpan, E.U. Etuk (Nigeria) | |
| Chemical composition and antinociceptive, anti-inflammatory and antiviral activities of <i>Gallesia gorazema</i> (Phytolaccaceae), a potential candidate for novel anti-herpetic phytomedicines | 595 |
| A. de Jesus Silva Júnior, F. de Campos-Buzzi, M.T.V. Romanos, T.M. Wagner, A.F. de Paula Costa Guimarães, V.C. Filho, R. Batista (Brazil) | |
| <i>In vivo</i> disposition and metabolism of madecassoside, a major bioactive constituent in <i>Centella asiatica</i> (L.) Urb. | 601 |
| D.-d. Leng, W.-j. Han, Y. Rui, Y. Dai, Y.-f. Xia (China) | |
| Isolation and characterization of antimicrobial constituents of <i>Searsia chirindensis</i> L. (Anacardiaceae) leaf extracts | 609 |
| B. Madikizela, M.A. Aderogba, J. Van Staden (South Africa) | |
| Traditional medicinal plants in Nigeria—Remedies or risks | 614 |
| O. Awodele, T.D. Popoola, K.C. Amadi, H.A.B. Coker, A. Akintonwa (Nigeria) | |
| Deciphering the combination principles of Traditional Chinese Medicine from a systems pharmacology perspective based on Ma-huang Decoction | 619 |
| Y. Yao, X. Zhang, Z. Wang, C. Zheng, P. Li, C. Huang, W. Tao, W. Xiao, Y. Wang, L. Huang, L. Yang (China) | |
| Ethnobotanical study of nutri-medicinal plants used for the management of HIV/AIDS opportunistic ailments among the local communities of western Uganda | 639 |
| S. Asiimwe, M. Kamatenesi-Mugisha, A. Namutebi (Uganda), A.-K. Borg-Karlsson (Sweden), P. Musiimenta (Uganda) | |
| Analgesic activity of DaChuanXiongFang after intranasal administration and its potential active components <i>in vivo</i> | 649 |
| J. Guo, W. Pan, D. Qian, J.-a. Duan, E. Shang, Y. Tang (PR China) | |
| Inhibition of the human neutrophil oxidative metabolism by <i>Baccharis dracunculifolia</i> DC (Asteraceae) is influenced by seasonality and the ratio of caffeic acid to other phenolic compounds | 655 |
| A.S.G. Figueiredo-Rinhel, L.M. Kabeya, P.C.P. Bueno, R.F. Jorge-Tiossi, A.E.C.S. Azzolini, J.K. Bastos, Y.M. Lucisano-Valim (Brazil) | |
| Evaluation of anxiolytic and sedative effects of 80% ethanolic <i>Carica papaya</i> L. (Caricaceae) pulp extract in mice | 665 |
| Z. Kebebew, W. Shibeshi (Ethiopia) | |
| Shenyuan, an extract of American Ginseng and <i>Corydalis</i> Tuber formula, attenuates cardiomyocyte apoptosis via inhibition of endoplasmic reticulum stress and oxidative stress in a porcine model of acute myocardial infarction | 672 |
| X.-Y. Zhu, Z.-L. Zhang, P. Li, W.-Y. Liang, X.-R. Feng, M.-L. Liu (China) | |
| Local knowledge, use pattern and geographical distribution of <i>Moringa oleifera</i> Lam. (Moringaceae) in Nigeria | 682 |
| J.O. Popoola, O.O. Obembe (Nigeria) | |
| Regulation effects of TZQ-F on adipocyte differentiation and insulin action | 692 |
| J. Nan Xia, D. Qin Zhang, J. Du, J. Wen (China) | |
| Korean red ginseng extract induces proliferation to differentiation transition of human acute promyelocytic leukemia cells via MYC-SKP2-CDKN1B axis | 700 |
| S. Jo, H. Lee, S. Kim, C.H. Lee, H. Chung (Republic of Korea) | |
| An ethnobotanical survey of medicinal plants used in Rwanda for voluntary depigmentation | 708 |
| L. Kamagaju (Belgium, Rwanda), E. Bizuru, V. Minani (Rwanda), R. Morandini, C. Stévigny, G. Ghanem, P. Duez (Belgium) | |
| Evaluation of cholesterol absorption and biosynthesis by decoctions of <i>Annona cherimola</i> leaves | 718 |
| P.L. Falé, C. Ferreira (Portugal), F. Maruzzella (Italy), M. Helena Florêncio, F.N. Frazão, M.L.M. Serralheiro (Portugal) | |
| <i>In vivo</i> antiproliferative potential of <i>Vernonia guineensis</i> Benth. (Asteraceae) tuber extract (VGDE) and the cytotoxicity of its major compound pentaisovaleryl sucrose | 724 |
| N.J. Toyang, E.N. Ateh, H. Davis (USA), P. Tane, L.B. Sondengam (Cameroon), J. Bryant (USA), R. Verpoorte (The Netherlands) | |
| Patterns of medicinal plant use by inhabitants of Brazilian urban and rural areas: A macroscale investigation based on available literature | 729 |
| P.M.d. Medeiros (Brazil), A.H. Ladio (Argentina), U.P. Albuquerque (Brazil) | |

Continued on next page

Continued from previous page

- Study on the correlation between constituents detected in serum from *Rhizoma Smilacis Glabrae* and the reduction of uric acid levels in hyperuricemia
 W.-A. Xu, L. Yin, H.-Y. Pan, L. Shi, L. Xu, X. Zhang, J.-A. Duan (China) 747
- Antihyperglycemic effect of a natural chicoric acid extract of chicory (*Cichorium intybus* L.): A comparative *in vitro* study with the effects of caffeic and ferulic acids
 J. Azay-Milhau, K. Ferrare, J. Leroy, J. Aubaterre, M. Tournier, A.-D. Lajoix, D. Tusch (France) 755
- Ethnopharmacological communication*
- Red ginseng extract inhibits the expression of MCP-1 and iNOS in *Helicobacter pylori*-infected gastric epithelial cells by suppressing the activation of NADPH oxidase and Jak2/Stat3
 S.O. Cho, J.W. Lim, H. Kim (Republic of Korea) 761
- Anti-cancer activity of compounds from *Bauhinia strychnifolia* stem
 S. Yuenyongsawad, K. Bunluepuech, C. Wattanapiromsakul, S. Tewtrakul (Thailand) 765
- Decoctions from *Citrus reticulata* Blanco seeds protect the uroepithelium against *Escherichia coli* invasion
 T.L. Vollmerhausen (Sweden, Australia), N.L. Ramos (Sweden), D.T.N. Dzung (Vietnam), A. Brauner (Sweden) 770
- Commentary*
- What is "clinical data"? Why and how can they be collected during field surveys on medicinal plants?
 B. Graz (Switzerland) 775



CONTENTS

Cited in: *Agricola*; *BIOSIS/Biological Abstracts*; *CAB Abstracts*; *Cambridge Scientific Abstracts*; *Chemical Abstracts Service*; *Current Contents (Life Sciences)*; *Elsevier BIOBASE/Current Advances in Biological Sciences*; *EMBASE/Excerpta Medica*; *EMbiology*; *International Pharmaceutical Abstracts*; *NAPRALERT (Natural Products Alert)*; *PUBMED/MEDLINE/Index Medicus*; *Science Citation Index*. Also covered in the abstract and citation database *Scopus*[®]. Full text available on *ScienceDirect*[®]

Reviews

- Liquorice, a unique "guide drug" of traditional Chinese medicine: A review of its role in drug interactions
X. Wang, H. Zhang, L. Chen, L. Shan, G. Fan, X. Gao (China) 781
- Passiflora incarnata* L.: Ethnopharmacology, clinical application, safety and evaluation of clinical trials
M. Miroddi, G. Calapai, M. Navarra, P.L. Minciullo, S. Gangemi (Italy) 791
- A review on plant-based rutin extraction methods and its pharmacological activities
L.S. Chua (Malaysia) 805
- Hypoxis* (Hypoxidaceae) in African traditional medicine
B. Ncube, A.R. Ndhlala, A. Okem, J. Van Staden (South Africa) 818

Research Papers

- Antinociceptive activity of Rhoifoline A from the ethanol extract of *Zanthoxylum nitidum* in mice
J. Hu, X. Shi, X. Mao, J. Chen, L. Zhu (China), Q. Zhao (People's Republic of China) 828
- Scutellariae radix* suppresses LPS-induced liver endothelial cell activation and inhibits hepatic stellate cell migration
H.-J. Chen, T.-M. Liang, I.-J. Lee, Y.-T. Huang, Y.-L. Lin (Taiwan) 835
- Gestational exposure to *Byrsonima verbascifolia*: Teratogenicity, mutagenicity and immunomodulation evaluation in female Swiss mice
C.A. Gonçalves, J. Máximo Siqueira, C. Alexandre Carollo, M. de Oliveira Mauro, N. de Davi, A. Luiza Cunha-Laura, A.C. Duenhas Monreal, A. Hortencia Castro, L. Fernandes, R. Russo Chagas, S. Alves Auharek, R. Juliano Oliveira (Brazil) 843
- Evaluation of symptom, clinical chemistry and metabolomics profiles during *Rehmannia six* formula (R6) treatment: An integrated and personalized data analysis approach
H.A. van Wietmarschen, J.v. der Greef, Y. Schroën, M. Wang (The Netherlands) 851
- An ethnobotanical study of medicinal plants used by the local people of Alaşehir (Manisa) in Turkey
S.A. Sargin, E. Akçicek, S. Selvi (Turkey) 860
- In vitro* and *in vivo* hepatoprotective effect of ganodermanontriol against *t*-BHP-induced oxidative stress
D.T. Ha (Vietnam, Republic of Korea), J. Oh (USA), N. Minh Khoi, T.T. Dao, L.V. Dung, T.N.Q. Do (Vietnam), S.M. Lee, T.S. Jang, G.-S. Jeong, M. Na (Republic of Korea) 875
- Isolation of seselin from *Clausena anisata* (Rutaceae) leaves and its effects on the feeding and development of *Lucilia cuprina* larvae may explain its use in ethnoveterinary medicine
L. Mukandiwa, A. Ahmed, J.N. Eloff, V. Naidoo (South Africa) 886
- The herbal formula CGX ameliorates the expression of vascular endothelial growth factor in alcoholic liver fibrosis
J.M. Kim, H.-G. Kim, J.-M. Han, J.-S. Lee, H.-W. Lee, M.-K. Choi, C.-G. Son (Republic of Korea) 892
- Intestinal antispasmodic effects of *Helichrysum italicum* (Roth) Don ssp. *italicum* and chemical identification of the active ingredients
D. Rigano, C. Formisano, F. Senatore, S. Piacente, E. Pagano, R. Capasso, F. Borrelli, A.A. Izzo (Italy) 901
- Shenghua Decoction reduces uterine bleeding and regulates T-cell paradigm in human deciduas of RU486 medical abortion
X. Li, M. Zhang, B. Wang, Y. Li, L. Wang, X. Zhao, X. Zhou, Y. Guo, G. Jiang, C. Yao (China) 907
- An ethnobotanical survey of indigenous medicinal plants in Wana district south Waziristan agency, Pakistan
M. Ullah, M.U. Khan, A. Mahmood, R.N. Malik, M. Hussain, S.M. Wazir, M. Daud, Z.K. Shinwari (Pakistan) 918

(Contents continued on BM)



(contents continued from outside back cover)

| | |
|---|------|
| Intestinal anti-inflammatory activity of ellagic acid in the acute and chronic dextrane sulfate sodium models of mice colitis M. Marín, R. María Giner, J.-L. Ríos, M. Carmen Recio (Spain) | 925 |
| Anti-hyperglycemic and hypolipidemic effects of <i>Cistanche tubulosa</i> in type 2 diabetic <i>db/db</i> mice W.-T. Xiong, L. Gu, C. Wang, H.-X. Sun, X. Liu (PR China) | 935 |
| Study on the mechanism of the bronchodilatory effects of <i>Cynodon dactylon</i> (Linn.) and identification of the active ingredient M.R. Patel, Y.S. Bhalodia, N.L. Pathak, M.S. Patel, K. Suthar, N. Patel, D.K. Golwala, N.P. Jivani (India) | 946 |
| A new protoberberine alkaloid from <i>Meconopsis simplicifolia</i> (D. Don) Walpers with potent antimalarial activity against a multidrug resistant <i>Plasmodium falciparum</i> strain P. Wangchuk (Bhutan, Australia), P.A. Keller, S.G. Pyne, W. Lie, A.C. Willis (Australia), R. Rattanajak, S. Kamchonwongpaisan (Thailand) | 953 |
| Da-Huang-Fu-Zi-Tang attenuates liver injury in rats with severe acute pancreatitis L. Wu, H. Li, S.-z. Zheng, X. Liu, H. Cai, B.-c. Cai (PR China) | 960 |
| Evaluation of the antinociceptive and anti-inflammatory effect of <i>Caralluma dalzielii</i> C.J. Ugwah-Oguejiofor, K. Abubakar, M.O. Ugwah, A.A. Njan (Nigeria) | 967 |
| Antioxidant and hepatoprotective activity of <i>Fagonia schweinfurthii</i> (Hadidi) Hadidi extract in carbon tetrachloride induced hepatotoxicity in HepG2 cell line and rats A. Pareek, A. Godavarthi, R. Issarani, B.P. Nagori (India) | 973 |
| <i>Hyptis suaveolens</i> (L.) Poit (Lamiaceae), a medicinal plant protects the stomach against several gastric ulcer models N.Z.T. Jesus, H.S. Falcão, G.R.M. Lima, M.R.D. Caldas Filho, I.R.P. Sales, I.F. Gomes, S.G. Santos, J.F. Tavares, J.M. Barbosa-Filho, L.M. Batista (Brazil) | 982 |
| Plants used for treatment of dysentery and diarrhoea by the Bhoxa community of district Dehradun, Uttarakhand, India S. Gairola, J. Sharma, R.D. Gaur, T.O. Siddiqi, R.M. Painuli (India) | 989 |
| <i>Lysimachia clethroides</i> Duby extract attenuates inflammatory response in Raw 264.7 macrophages stimulated with lipopolysaccharide and in acute lung injury mouse model D.-W. Shim, J.-W. Han, X. Sun, C.-H. Jang, S. Koppula, T.-J. Kim, T.-B. Kang, K.-H. Lee (Republic of Korea) | 1007 |
| Antidiarrheal and intestinal antiinflammatory activities of a methanolic extract of <i>Qualea parviflora</i> Mart. in experimental models L.P. Mazzolin, L.R. de Almeida Kiguti, E.O. da Maia, L.T.L. Fernandes, L.R.M. da Rocha, W. Vilegas, A.S. Pupo, L.C.D. Stasi, C.A. Hiruma-Lima (Brazil) | 1016 |
| The impact of <i>Zataria multiflora</i> Boiss extract on <i>in vitro</i> and <i>in vivo</i> Th ₁ /Th ₂ cytokine (IFN- γ /IL4) balance M.H. Boskabady, S. Shahmohammadi Mehrjardi, A. Rezaee, H. Rafatpanah, S. Jalali (IR Iran) | 1024 |
| <i>In vivo</i> anti-inflammatory and anti-ulcerogenic activities of extracts from wild growing and <i>in vitro</i> plants of <i>Castilleja tenuiflora</i> Benth. (<i>Orobanchaceae</i>) P.M. Sanchez, M.L. Villarreal, M. Herrera-Ruiz, A. Zamilpa, E. Jiménez-Ferrer, G. Trejo-Tapia (Mexico) | 1032 |
| Suppressive effect of modified Simiaowan on experimental gouty arthritis: An <i>in vivo</i> and <i>in vitro</i> study L. Shi, L. Xu, Y. Yang, H. Song, H. Pan, L. Yin (PR China) | 1038 |
| Modulation of hepatic sterol regulatory element-binding protein-1c-mediated gene expression contributes to <i>Salacia oblonga</i> root-elicited improvement of fructose-induced fatty liver in rats L. Liu, M. Yang, X. Lin, Y. Li, C. Liu (China), Y. Yang (Australia), J. Yamahara (Japan), J. Wang (China), Y. Li (Australia) | 1045 |
| A representative prescription for emotional disease, Ding-Zhi-Xiao-Wan restores 5-HT system deficit through interfering the synthesis and transshipment in chronic mild stress-induced depressive rats X.-Z. Dong, Z.-L. Li, X.-L. Zheng, L.-H. Mu, G.-q. Zhang, P. Liu (China) | 1053 |
| Astragaloside IV attenuates inflammatory cytokines by inhibiting TLR4/NF- κ B signaling pathway in isoproterenol-induced myocardial hypertrophy J. Yang, H.-X. Wang, Y.-J. Zhang, Y.-H. Yang, M.-L. Lu, J. Zhang, S.-T. Li, S.-P. Zhang, G. Li (PR China) | 1062 |
| Anti-inflammatory and antinociceptive effects of Chinese medicine SQ gout capsules and its modulation of pro-inflammatory cytokines focusing on gout arthritis N. Darshika Kodithuwakku, M. Pan, Y.-i. Zhu, Y.-y. Zhang, Y.-d. Feng, W.-r. Fang, Y.-m. Li (PR China) | 1071 |
| Inhibition of arachidonic acid metabolism by the Andean crude drug <i>Parastrephia lucida</i> (Meyen) Cabrera R.E. D'Almeida, M.I. Isla, E. de L. Vildoza (Argentina), C. Quispe, G. Schmeda-Hirschmann (Chile), M.R. Alberto (Argentina) | 1080 |
| <i>In vitro</i> inhibition of metabolism but not transport of gliclazide and repaglinide by Cree medicinal plant extracts C. Cieniak, R. Liu, A. Fottinger, S.A.M. Smiley, J.A. Guerrero-Analco, S.A.L. Bennett, P.S. Haddad, A. Cuerrier, A. Saleem, J.T. Arnason, B.C. Foster (Canada) | 1087 |
| The mechanism of the opening of the blood-brain barrier by borneol: A pharmacodynamics and pharmacokinetics combination study B. Yu, M. Ruan, X. Dong, Y. Yu, H. Cheng (PR China) | 1096 |
| <i>Azadirachta indica</i> treatment on the congenital malformations of fetuses from rats B. Dallaqua, F.H. Saito, T. Rodrigues, I.M.P. Calderon, M.V.C. Rudge, G.T. Volpato, D.C. Damasceno (Brazil) | 1109 |

Continued on next page

Continued from previous page

- Diuretic activity of some fractions of the epidermis of *Poria cocos* 1114
 Y.-L. Feng, P. Lei, T. Tian, L. Yin, D.-Q. Chen, H. Chen, Q. Mei, Y.-Y. Zhao, R.-C. Lin (PR China)
- Antihyperglycemic, antihyperlipidemic and antioxidant effects of ethanol and aqueous extracts of *Cyclocarya paliurus* leaves in type 2 diabetic rats 1119
 Q. Wang, C. Jiang, S. Fang, J. Wang, Y. Ji, X. Shang (PR China), Y. Ni (PR China, Belgium), Z. Yin, J. Zhang (PR China)
- Berberine improves neurogenic contractile response of bladder detrusor muscle in streptozotocin-induced diabetic rats 1128
 L.-M. Ren, Y.-J. Zhuo, Z.-S. Hao, H.-M. He, H.-G. Lu, D. Zhao (PR China)
- Protective effects of Huang-Lian-Jie-Du-Tang and its component group on collagen-induced arthritis in rats 1137
 Y. Hu, Z. Hu, S. Wang, X. Dong, C. Xiao, M. Jiang, A. Lv (China), W. Zhang (China, Saudi Arabia), R. Liu (China)
- Ethnobotanical survey on medicinal plants used by Guinean traditional healers in the treatment of malaria 1145
 M.S. Traore, M.A. Baldé, M.S.T. Diallo, E.S. Baldé, S. Diané, A. Camara, A. Diallo, A. Balde, A. Keita, S.M. Keita, K. Oularé, F.B. Magassouba, I. Diakité, A. Diallo (Guinea), L. Pieters (Belgium), A.M. Baldé (Guinea)
- Anti-inflammatory and antitumoural effects of *Uncaria guianensis* bark 1154
 I. Urdanibia, F. Michelangeli, M.-C. Ruiz, B. Milano, P. Taylor (Venezuela)