

Planta Medica

An International Journal of Natural Products and Medicinal Plant Research

Editor-in-Chief

Luc Pieters, Antwerp, Belgium

Senior Editor

Adolf Nahrstedt, Münster, Germany

Review Editor

Matthias Hamburger, Basel, Switzerland

Editors

Wolfgang Barz, Münster, Germany
Rudolf Bauer, Graz, Austria
Veronika Butterweck, Gainesville FL, USA
João Batista Calixto, Florianopolis, Brazil
Thomas Efferth, Heidelberg, Germany
Jerzy W. Jaroszewski, Copenhagen, Denmark
Ikhlas Khan, Oxford MS, USA
Wolfgang Kreis, Erlangen, Germany
Irmgard Merfort, Freiburg, Germany
Kurt Schmidt, Graz, Austria
Thomas Simmet, Ulm, Germany
Hermann Stuppner, Innsbruck, Austria
Yang-Chang Wu, Kaohsiung, Taiwan
Yang Ye, Shanghai, China

Editorial Offices

Claudia Schärer, Basel, Switzerland
Tess De Bruyne, Antwerp, Belgium

Advisory Board

Giovanni Appendino, Novara, Italy
John T. Arnason, Ottawa, Canada
Yoshinori Asakawa, Tokushima, Japan
Lars Bohlin, Uppsala, Sweden
Gerhard Bringmann, Würzburg, Germany
Reto Brun, Basel, Switzerland
Mark S. Butler, Singapore, R. of Singapore
İhsan Calis, Ankara, Turkey
Salvador Cañigueral, Barcelona, Spain
Hartmut Derendorf, Gainesville, USA
Verena Dirsch, Vienna, Austria
Jürgen Drewe, Basel, Switzerland
Roberto Maffei Facino, Milan, Italy
Alfonso Garcia-Piñeres, Frederick MD, USA
Rolf Gebhardt, Leipzig, Germany
Clarissa Gerhäuser, Heidelberg, Germany
Jürg Gertsch, Zürich, Switzerland
Simon Gibbons, London, UK
De-An Guo, Shanghai, China
Leslie Gunatilaka, Tuscon, USA
Solomon Habtemariam, London, UK
Andreas Hensel, Münster, Germany
Werner Herz, Tallahassee, USA
Kurt Hostettmann, Geneva, Switzerland
Peter J. Houghton, London, UK
Jinwoong Kim, Seoul, Korea
Gabriele M. König, Bonn, Germany
Ulrich Matern, Marburg, Germany
Matthias Melzig, Berlin, Germany
Dulcie Mulholland, Guildford, UK
Eduardo Munoz, Cordoba, Spain
Kirsti-Maria Oksman-Caldentey, Espoo, Finland
Ana Maria de Oliveira, São Paulo, Brazil
Nigel B. Perry, Dunedin, New Zealand
Joseph Pfeilschifter, Frankfurt, Germany
Peter Proksch, Düsseldorf, Germany
Thomas Schmidt, Münster, Germany
Volker Schulz, Berlin, Germany
Hans-Uwe Simon, Bern, Switzerland
Leandros Skaltsounis, Athens, Greece
Han-Dong Sun, Kunming, China
Benny K. H. Tan, Singapore, R. of Singapore
Ren Xiang Tan, Nanjing, China
Deniz Tasdemir, London, UK
Nunziatina de Tommasi, Salerno, Italy
Arnold Vlietinck, Antwerp, Belgium
Angelika M. Vollmar, München, Germany
Heikki Vuorela, Helsinki, Finland
Jean-Luc Wolfender, Geneva, Switzerland
De-Quan Yu, Beijing, China

Publishers

Georg Thieme Verlag KG
Stuttgart · New York
Rüdigerstraße 14
D-70469 Stuttgart
Postfach 30 11 20
D-70451 Stuttgart

Thieme Publishers

333 Seventh Avenue
New York, NY 10001, USA
www.thieme.com

Masthead
Planta Medica
Volume 75

Editor-in-Chief

Prof. Dr. Luc Pieters, University of Antwerp, Department of Pharmaceutical Sciences, Universiteitsplein 1, B-2610 Antwerp, Belgium, e-mail: luc.pieters@ua.ac.be, phone: +32 3 820 27 15, fax: +32 3 820 27 09

Editorial Offices

Dr. Claudia Schärer, Institute of Pharmaceutical Biology, Department of Pharmaceutical Sciences, University of Basel, Klingelbergstrasse 50, CH-4053 Basel, e-mail: claudia.schaerer@unibas.ch

Dr. Tess De Bruyne, University of Antwerp, Department of Pharmaceutical Sciences, Universiteitsplein 1, B-2610 Antwerp, Belgium, e-mail: tess.debruyne@ua.ac.be

Publishers

Georg Thieme Verlag KG
Rüdigerstraße 14, 70469 Stuttgart or
P.O. Box 30 11 20, 70451 Stuttgart
phone +49-711-8931-0
fax +49-711-8931-298
www.thieme.com
www.thieme.de/fz/plantamedica
<http://www.thieme-connect.de/ejournals>

Copyright

This journal, including all individual contributions and illustrations published therein, is legally protected by copyright for the duration of the copyright period. Any use, exploitation or commercialization outside the narrow limits set by copyright legislation, without the publisher's consent, is illegal and liable to criminal prosecution. This applies in particular to photocopy reproduction, copyright, cyclstyling, mimeographing or duplication of any kind, translating, preparation of microfilms, and electronic data processing and storage.

Advertising responsibility

Thieme.media
Pharmmedia Anzeigen- und Verlagsservice GmbH
Ulrike Bradler
Rüdigerstraße 14, 70469 Stuttgart and
P.O. Box 30 08 80, 70448 Stuttgart
phone +49-711-8931-466
fax +49-711-8931-392
e-mail: Ulrike.Bradler@thieme.de

Advertisement pricelist No. 34, valid since 1.10.2008, is currently applicable.

Printed in Germany

Druckhaus Köthen, 06366 Köthen/Anhalt

Typesetting

Sommer Druck, 91555 Feuchtwangen

Production manager

phone +49-711-8931-452
fax +49-711-8931-392
e-mail: Daniel.Bauer@thieme.de

Subscription information

phone +49-711-8931-321
fax +49-711-8931-422
e-mail: aboservice@thieme.de

General information

Planta Medica, ISSN 0032-0943, is published in 15 issues per year.

Subscribers are asked to inform the publisher immediately in case of address changes in order to ensure correct delivery of the journal.

All subscription orders are entered for the calendar year. The rate of subscription is invoiced in advance at the end of the year for the following year and becomes due for payment for the full calendar year. Subscriptions can be started anytime. Subscriptions are automatically extended each year unless notice of cancellation is received from the subscriber prior

to September 30 of each year (applies to Germany, Switzerland, Austria only).

Subscription for Europe and countries outside the American continent

Order from Georg Thieme Verlag KG, Rüdigerstr. 14, 70469 Stuttgart, Germany; P.O. Box 30 11 20, 70451 Stuttgart, Germany; phone +49-711-8931-421; fax +49-711-8931-410; e-mail: custserv@thieme.de. Subscription rates for 2009 are listed below.

Subscription for the American Continent

Order from Thieme New York, 333 Seventh Avenue, New York, NY 10001, USA. Order toll free +1-800-782-3488 (US only) or +1-212-760-0888, fax +1-212-947-0108; e-mail: customerservice@thieme.com. Subscription rates for 2009 are listed below.

Airfreight and mailing in the USA by Publications Expediting Inc., 200 Meacham Ave., Elmont, NY 11003. Periodicals postage paid at Jamaica NY 11431. Postmaster: Send address changes to Planta Medica Publications Expediting Inc., 200 Meacham Ave., Elmont, NY 11003.

For information on personal rate subscriptions or special society agreements, please contact Fiona Henderson, Thieme International, phone +49-711-8931-458, fax +49-711-8931-410, e-mail: Fiona.Henderson@thieme.de

For Users in the USA

Authorization of photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Georg Thieme Verlag Stuttgart - New York for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service; www.copyright.com

For reprint information in the US, please contact: International Reprint Corporation, 287 East "H" St., Benicia, CA 94510, USA; phone: +1-707-746-8740, fax +1-707-746-1643; e-mail: irc@intlreprints.com

Product names

Product names which are registered trademarks may not have been specifically designated as such in every case. In case that a product has been referred to by its registered trademark it cannot be concluded that the name used is in the public domain. The same applies to labels, names or other signs.

Manuscripts

Manuscript submission exclusively via:
<http://mc.manuscriptcentral.com/plamed>

For details regarding manuscript submission please refer to "Guidelines for Authors" and the "Sample Manuscript". Download PDF files from <http://mc.manuscriptcentral.com/plamed> (follow link "Instructions and Forms") or <http://www.thieme.de/fz/plantamedica> (follow link "For Authors"). In principle only papers will be accepted which have not been published previously, domestically or abroad. Furthermore, manuscripts may not be offered to other publications at the same time as they are under consideration for this journal.

With the acceptance of the manuscript for publication the authors transfer the exclusive, spatial and temporally unrestricted right to the publishing house for all editions/updates for the duration of the legal period of protection (§ 64 UrHG) for also excerpt-wise utilization in printed form as well as into electronic

Important note

Medicine is an ever-changing science undergoing continual development. Research and clinical experience are continually expanding our knowledge, in particular our knowledge of proper treatment and drug therapy. Insofar as this journal mentions any dosage or application, readers may rest assured that the authors, editors and publishers have made reasonable effort to ensure that such references are in accordance with the state of knowledge at the time of production of the journal.

Nevertheless this does not involve, imply, or express any guarantee or responsibility on the part of the publishers in respect of any dosage instructions and forms of application stated in the journal. Every user is requested to examine carefully the manufacturers' leaflets accompanying each drug and to check, if necessary in consultation with a physician or specialist, whether the dosage schedules mentioned therein or the contraindications stated by the manufacturers differ from the statements made in the present journal. Such examination is particularly important with drugs that are either rarely used or have been newly released on the market. Every dosage schedule or every form of application used is entirely at the users own risk and responsibility. The authors and publishers request every user to report to the publishers any discrepancies or inaccuracies noticed.

media (data bases, online reticulated systems, Internet, CD-ROM, DVD, PDA etc.) also in changed form or in form of a excerpt-wise linkage with other works including the translation into other languages as well as by transmission of rights to use to third.

As far as illustrations are taken out of other publications, the author grants only the not exclusive right to use to the extent of the managing paragraph to the publishing house. The author is responsible for the complete indication of source as well as the obtaining of the written consent of the other publishing house to the managing evasions of right and proves these to the publishing house.

The corresponding author will receive a PDF-file for private use.

Online

The scientific text of this journal is available online through Thieme-connect, <http://www.thieme-connect.de>. Access to Thieme-connect is free of charge for personal subscribers. For information concerning licenses and prices for institutional access, please contact Carmen Krenz, e-mail: sales@thieme-connect.de

Customers from North, Central and South America and Canada please contact Alexandra Williams, e-mail: awilliams@thieme.com

Authors may choose to allow, for a fee, free general access to their papers online. For details, please contact plantamedica@thieme.de

© Georg Thieme Verlag KG
Stuttgart · New York 2009

Annual subscription rates*	Germany	Europe	USA & Canada	South- and Central America	Australia, Asia & Africa
Postage & Handling	68,00 €	92,00 €	-	-	104,00 €
Institutional	1.024,00 €	1.024,00 €	-	-	1.024,00 €
Subscription Rate					
Institutional Total	1.092,00 €	1.116,00 €	1.374,00 US \$	1.404,00 US \$	1.128,00 €
Members of the following societies will receive this journal within their membership: Society for Medical Plant Research.					
Single issue: 84,00 € *					

* Prices include 7% VAT; € is equivalent to € (D).

Issue 1	(January 2008)	= Page	1	-	99
Issue 2	(February 2008)	= Page	105	-	200
Issue 3	(February 2008)	= Page	203	-	304
Issue 4	(March 2008)	= Page	377	-	482
Issue 5	(April 2008)	= Page	485	-	590
Issue 6	(May 2008)	= Page	593	-	696
Issue 7	(June 2008)	= Page	699	-	789
Issue 8	(June 2008)	= Page	791	-	892
Issue 10	(August 2008)	= Page	1229	-	1320
Issue 11	(September 2008)	= Page	1323	-	1420
Issue 12	(October 2008)	= Page	1423	-	1519
Issue 13	(October 2008)	= Page	1523	-	1665
Issue 14	(November 2008)	= Page	1667	-	1767
Issue 15	(December 2008)	= Page	1769	-	1853

Analytical Studies

- 1295 Cardoso-Taketa, Alexandre T, Rogelio Pereda-Miranda, Young Hae Choi, Robert Verpoorte, María Luisa Villarreal
Metabolic Profiling of the Mexican Anxiolytic and Sedative Plant *Galphimia glauca* Using Nuclear Magnetic Resonance Spectroscopy and Multivariate Data Analysis
- 182 Da Porto, Carla, Deborah Decorti
Analysis of the Volatile Compounds of Flowers and Essential Oils from *Lavandula angustifolia* Cultivated in Northeastern Italy by Headspace Solid-Phase Microextraction Coupled to Gas Chromatography-Mass Spectrometry
- 453 Ganzera, Markus, Manuela Guggenberger, Hermann Stuppner, Christian Zidorn
Altitudinal Variation of Secondary Metabolite Profiles in Flowering Heads of *Matricaria chamomilla* cv. BONA
- 773 Ge, Guang-Bo, Yan-Yan Zhang, Da-Cheng Hao, Ying Hu, Hong-Wei Luan, Xing-Bao Liu, Yu-Qi He, Zheng-Tao Wang, Ling Yang
Chemotaxonomic Study of Medicinal *Taxus* Species with Fingerprint and Multivariate Analysis
- 873 Han, Jian, Min Ye, Man Xu, Xue Qiao, Hubiao Chen, Baorong Wang, Junhua Zheng, De-an Guo
Comparison of Phenolic Compounds of Rhubarbs in the Section *Deserticola* with *Rheum palmatum* by HPLC-DAD-ESI-MS_n
- 458 Han, Quan-Bin, Song-Lin Li, Chun-Feng Qiao, Jing-Zheng Song, Zong-Wei Cai, Paul Pui-Hay But, Pang-Chui Shaw, Hong-Xi Xu
A Simple Method to Identify the Unprocessed *Strychnos* Seeds used in Herbal Medicinal Products
- 1308 Kulshrestha, Rashmi, Chandra Prakash Gupta, Gyanesh Shukla, Madan Gopal Kundu, Satyendra Prasad Bhatnagar, Chandra Kant Katiyar
The Effect of Water Activity and Storage Temperature on the Growth of *Aspergillus flavus* in Medicinal Herbs
- 764 Lechtenberg, Matthias, Dirk Schepmann, Michael Niehues, Nils Hellenbrand, Bernhard Wünsch, Andreas Hensel
Quality and Functionality of Saffron: Quality Control, Species Assortment and Affinity of Extract and Isolated Saffron Compounds to NMDA and σ1 (Sigma-1) Receptors
- 880 Li, Fei, Xiu-wei Yang
Simultaneous Determination of Diastereomers (+)-Licarin A and Isolicarin A from *Myristica fragrans* in Rat Plasma by HPLC and its Application to their Pharmacokinetics

- 1302 Li, Shun-Xing, Feng-Ying Zheng
Speciation Analysis, Bioavailability and Risk Assessment of Copper Complexes in Phytomedicines using Flame Atomic Absorption Spectrometry
- 885 Mohn, Tobias, Matthias Hamburger
Glucosinolate Pattern in *Isatis tinctoria* and *I. indigotica* Seeds
- 582 Mohn, Tobias, Kathrin Suter, Matthias Hamburger
Seasonal Changes and Effect of Harvest on Glucosinolates in *Isatis* leaves
- 565 Schneider, Ernst, Holger von der Heydt, Anke Esperester
Evaluation of Polyphenol Composition in Red Leaves from Different Varieties of *Vitis vinifera*
- 1316 Sharaf-Eldin, Mahmoud, Shereen Elkholly, José-Antonio Fernández, Helmut Junge, Ronald Cheetham, José Guardiola, Pamela Weathers
Bacillus subtilis FZB24® Affects Flower Quantity and Quality of Saffron (*Crocus sativus*)
- 84 Song, Yue, Ping Li, Duo Wang, Yi-Yu Cheng
Micellar Electrokinetic Chromatography for the Quantitative Analysis of Flavonoids in the Radix of *Astragalus membranaceus* var. *mongolicus*
- 573 Termentzi, Aikaterini, Eugene Kokkalou
LC-DAD-MS (ESI+) Analysis and Antioxidant Capacity of *Crocus sativus* Petal Extracts
- 1496 Xenophontos, Marina, Ilias Stavropoulos, Emmanuel Avramakis, Eleni Navakoudis, Dieter Dörnemann, Kiriakos Kotzabasis
Influence of the Habitat Altitude on the (Proto)Hypericin and (Proto)Pseudohypericin Levels of *Hypericum* Plants from Crete

Biochemistry and Molecular Biology

- 889 Chen, Feng, Ho-Yin Edwin Chan, Ka-Lok Wong, Jun Wang, Man-Tang Yu, Paul Pui-Hay But, Pang-Chui Shaw
Authentication of *Saussurea lappa*, an Endangered Medicinal Material, by ITS DNA and 5S rRNA Sequencing
- 194 Devaiah, K M, Padma Venkatasubramanian
Genetic Characterization and Authentication of *Embelia ribes* using RAPD-PCR and SCAR Marker
- 588 Di Maro, Antimo, Luca Di Giovannantonio, Pasquale Delli Bovi, Fernando De Andrés Segura, Augusto Parente
N-Terminal Amino Acid Sequences of Intact and Cleaved Forms of Mung Bean Nuclease
- 296 Jain, Neeraj, Ajit Kumar Shasany, Shefali Singh, Suman Preet Khanuja, Sushil Kumar
SCAR Markers for Correct Identification of *Phyllanthus amarus*, *P. fraternus*, *P. debilis* and *P. urinaria* used in Scientific Investigations and Dry Leaf Bulk Herb Trade
- 780 Lee, Chen-Yu, Dinesh C Agrawal, Chang-Sheng Wang, Su-May Yu, Jeremy J Chen, Hsin-Sheng Tsay
T-DNA Activation Tagging as a Tool to Isolate *Salvia miltiorrhiza* Transgenic Lines for Higher Yields of Tanshinones
- 464 Lin, Wen-Yu, Li-Ru Chen, Tsai-Yun Lin
Rapid Authentication of *Bupleurum* Species using an Array of Immobilized Sequence-Specific Oligonucleotide Probes
- 787 Maruyama, Takuro, Hiroyuki Kamakura, Miho Miyai, Katsuko Komatsu, Takeshi Kawasaki, Masao Fujita, Hiroshi Shimada, Yutaka Yamamoto, Toshiro Shibata, Yukihiro Goda
Authentication of the Traditional Medicinal Plant *Eleutherococcus senticosus* by DNA and Chemical Analyses

- 470 Qian, Liang, Ge Ding, Qi Zhou, Zhenyu Feng, Xiaoyu Ding, Sun Gu, Ying Wang, Xuexia Li, Bihai Chu
Molecular Authentication of *Dendrobium loddigesii* Rolfe by Amplification Refractory Mutation System (ARMS)
- 197 Xuanwei, Zhou, Li Qizhang, Yin Yizhou, Chen Yiyuan, Lin Juan
Identification of Medicinal *Ganoderma* Species Based on PCR with Specific Primers and PCR-RFLP
- 1416 Xue, Chun-Ying, Heng-Gang Xue
Application of Real-Time Scorpion PCR for Authentication and Quantification of the Traditional Chinese Medicinal Plant *Drynaria fortunei*
- 302 Xue, Heng-Gang, Hong Wang, De-Zhu Li, Chun-Ying Xue, Qing-Zhong Wang
Differentiation of the Traditional Chinese Medicinal Plants *Euphorbia humifusa* and *E. maculata* from Adulterants by TaqMan Real-Time Polymerase Chain Reaction
- 1504 Yan, Ping, Qi-Hua Pang, Xu-Wen Jiao, Xuan Zhao, Yan-Jing Shen, Shu-Jin Zhao
Genetic Variation and Identification of Cultivated *Fallopia multiflora* and its Wild Relatives by Using Chloroplast *matK* and 18S rRNA Gene Sequences
- 1510 Yang, Rui-Yi, Li-Ling Feng, Xue-Qin Yang, Lu-Lu Yin, Xiao-Ling Xu, Qing-Ping Zeng
Quantitative Transcript Profiling Reveals Down-Regulation of A Sterol Pathway Relevant Gene and Overexpression of Artemisinin Biogenetic Genes in Transgenic *Artemisia annua* Plants

Clinical Studies

- 1430 Romero-Cerecero, Ofelia, Alejandro Zamilpa, Jesús Enrique Jiménez-Ferrer, Gabriela Rojas-Bribiesca, Rubén Román-Ramos, Jaime Tortoriello
Double-Blind Clinical Trial for Evaluating the Effectiveness and Tolerability of *Ageratina pichinchensis* Extract on Patients with Mild to Moderate Onychomycosis. A Comparative Study with Ciclopirox
- 1423 Xu, Min, Liang Liu, Chen Qi, Bin Deng, Xiong Cai
Sinomenine Versus NSAIDs for the Treatment of Rheumatoid Arthritis: A Systematic Review and Meta-Analysis

Editorial

- 1523 Gescher, Andreas, Clarissa Gerhäuser
Cancer Chemopreventive Agents in Plants – A Continuing Challenge
- 593 Hamburger, M
Editorial
- 791 Sticher, Otto, Matthias Hamburger
Albert Hofmann (1906-2008) – an Obituary
- 2 Acknowledgement
- 1 Editorial

Erratum

- 482 Cole, Ian B, Jin Cao, Ali R Alan, Praveen K Saxena, Susan J Murch
Comparisons of *Scutellaria baicalensis*, *Scutellaria lateriflora* and *Scutellaria racemosa*: Genome Size, Antioxidant Potential and Phytochemistry

- 1767 Guo, Yuanqiang, Jing Xu, Yushan Li, Tohru Yamakuni, Yasushi Ohizumi
Three-Membered Ring Sesquiterpenoids with NGF-Potentiating Activity from the Roots of *Valeriana fauriei*
- 1320 Lee, Ji Suk, Masao Hattori, Jinwoong Kim
Inhibition of HIV-1 Protease and RNase H of HIV-1 Reverse Transcriptase Activities by Long Chain Phenols from the Sarcostestas of *Ginkgo biloba*
- 789 Liapi, C, G Anifandis, I Chinou, A P Kourounakis, S Theodosopoulos, P Galanopoulou
Antinociceptive Properties of 1,8-Cineole and β-Pinene, from the Essential Oil of *Eucalyptus camaldulensis* Leaves, in Rodents
- 1767 Romero-Cerecero, Ofelia, Alejandro Zamilpa, Jesús Enrique Jiménez-Ferrer, Gabriela Rojas-Bribiesca, Rubén Román-Ramos, Jaime Tortoriello
Double-Blind Clinical Trial for Evaluating the Effectiveness and Tolerability of *Ageratina pichinchensis* Extract on Patients with Mild to Moderate Onychomycosis. A Comparative Study with Ciclopirox
- 1853 Yan, Haiyan, Ying Ma, Mei Liu, Lanlan Zhou
The Dual Actions of *Paederia scandens* Extract as a Hypouricemic Agent: Xanthine Oxidase Inhibitory Activity and Uricosuric Effect

Keynote Lecture

- 624 Crawford, Alexander D, Camila V Esguerra, Peter A de Witte
Fishing for Drugs from Nature: Zebrafish as a Technology Platform for Natural Product Discovery

Letter

- 1828 Agrawal, Dinesh Kumar, Dharmendra Saikia, Richa Tiwari, Shweta Ojha, Karuna Shanker, Jonnala Kotesh Kumar, Anil Kumar Gupta, Sudeep Tandon, Arvind Singh Negi, Suman Preet Khanuja
Demethoxycurcumin and its Semisynthetic Analogues as Antitubercular Agents
- 1826 Chen, Yi-Lei, Chang-Heng Tan, Jun-Jie Tan, Shi-Jin Qu, Shan-Hao Jiang, Da-Yuan Zhu
Two New Isomeric α-Tetralones from *Pyrola calliantha*
- 1749 Hassan, Emad M, Abdelaaty A Shahat, Nabawy A Ibrahim, Arnold J Vlietinck, Sandra Apers, Luc Pieters
A New Monoterpene Alkaloid and Other Constituents of *Plumeria acutifolia*
- 1802 Hazni, Hazrina, Norazlina Ahmad, Yukio Hitotsuyanagi, Koichi Takeya, Chee-Yan Choo
Phytochemical Constituents from *Cassia alata* with Inhibition against Methicillin-Resistant *Staphylococcus aureus* (MRSA)
- 1716 Kobayashi, Kyoko, Keiko Yamada, Toshihiro Murata, Tatsuya Hasegawa, Fumihide Takano, Kazutaka Koga, Shinji Fushiya, Javzan Batkhuu, Fumihiiko Yoshizaki
Constituents of *Rhodiola rosea* Showing Inhibitory Effect on Lipase Activity in Mouse Plasma and Alimentary Canal
- 1800 Lee, Ga Young, Dae Sik Jang, Junghyun Kim, Chan-Sik Kim, Young Sook Kim, Joo-Hwan Kim, Jin Sook Kim
Flavan-3-ols from *Ulmus davidiana* var. *japonica* with Inhibitory Activity on Protein Glycation
- 1741 Meng, Dahai, Shigao Qiang, Liguang Lou, Weimin Zhao
Cytotoxic Cucurbitane-Type Triterpenoids from *Elaeocarpus hainanensis*

- 1745 Pramanick, Swapan, Amit Roy, Shekher Ghosh, Hemanta K Majumder, Sibabrata Mukhopadhyay Withanolide Z, a New Chlorinated Withanolide from *Withania somnifera*
- 1823 Tao, Huaming, Lishu Wang, Zhanchen Cui, Daqing Zhao, Yonghong Liu Dimeric Proanthocyanidins from the Roots of *Ephedra sinica*
- 1764 Vongsak, Boonyadist, Surapong Kengtong, Sunya Vajrodaya, Suchada Sukrong Sequencing Analysis of the Medicinal Plant *Stemona tuberosa* and Five Related Species Existing in Thailand Based on *trnH-psbA* Chloroplast DNA
- 1735 Wang, Li-li, Zhan-lin Li, Dan-dan Song, Lin Sun, Yue-hu Pei, Yong-kui Jing, Hui-ming Hua Two Novel Triterpenoids with Antiproliferative and Apoptotic Activities in Human Leukemia Cells Isolated from the Resin of *Garcinia hanburyi*
- Mini Review**
- 1570 Antosiewicz, Jедрzej, Wieslaw Ziolkowski, Siddhartha Kar, Anna A Powolny, Shivendra V Singh Role of Reactive Oxygen Intermediates in Cellular Responses to Dietary Cancer Chemopreventive Agents
- Natural Products Chemistry**
- 1408 Abrantes, Marta, Tânia Mil-Homens, Noélia Duarte, Dinora Lopes, Pedro Cravo, Maria do Madureira, Maria-José U Ferreira Antiplasmodial Activity of Lignans and Extracts from *Pycnanthus angolensis*
- 1288 Agnihotri, Vijai K, Hala N ElSohly, Troy J Smillie, Ikhlas A Khan, Larry A Walker New Labdane Diterpenes from *Leonurus cardiaca*
- 1463 Alarcón, Rosana, Roberto Carrizo Flores, Soledad Ocampos, Alejandro Lucatti, Laura Flores Galleguillo, Carlos Tonn, Virginia Sosa Flavonoids from *Pterocaulon alopecuroides* with Antibacterial Activity
- 178 Ali, Zulfiqar, Frank R Fronczek, Ikhlas A Khan Phenylalkanoids and Monoterpene Analogues from the Roots of *Rhodiola rosea*
- 555 Ankudey, Frank Joy, Paul Kiprof, Emily R Stromquist, Leng Chee Chang New Bioactive Bromotyrosine-Derived Alkaloid from a Marine Sponge *Aplysinella* sp.
- 50 Awouafack, Maurice D, Simeon F Kouam, Hidayat Hussain, Dieudonne Ngamga, Pierre Tane, Barbara Schulz, Ivan R Green, Karsten Krohn Antimicrobial Prenylated Dihydrochalcones from *Eriosema glomerata*
- 438 Benoit-Vical, Françoise, Mariette Saléry, Patrice Njomnang Soh, Alain Ahond, Christiane Poupat Girolline: A Potential Lead Structure For Antiplasmodial Drug Research
- 1405 Choi, Yeon Hee, Gyu Hwan Yon, Kyung Sik Hong, Dae Seok Yoo, Chun Whan Choi, Woo-Kyu Park, Jae Yang Kong, Young Sup Kim, Shi Yong Ryu *In vitro* BACE-1 Inhibitory Phenolic Components from the Seeds of *Psoralea corylifolia*
- 422 Cui, Long, Phuong Thien Thuong, Hyun Sun Lee, Dieudonné Njamen, Joseph Tanyi Mbafor, Z Tanee Fomum, Junwon Lee, Young Ho Kim, Won Keun Oh Four New Chalcones from *Erythrina abyssinica*
- 1397 Deng, Dawei, Denis R Lauren, Janine M Cooney, Dwayne J Jensen, Kirstin V Wurms, Jenine E Upritchard, Richard D Cannon, Ming Zhong Wang, Ming Zhang Li Antifungal Saponins from *Paris polyphylla* Smith
- 171 Díaz, Jesús G, Armando J Carmona, Fernando Torres, José Quintana, Francisco Estévez, Werner Herz Cytotoxic Activities of Flavonoid Glycoside Acetates from *Consolida oliveriana*
- 61 Duarte, Noélia, Hermann Lage, Maria-José U Ferreira Three New Jatrophane Polyesters and Antiproliferative Constituents from *Euphorbia tuckeyana*
- 870 Evanno, Laurent, Akino Jossang, Julie Nguyen-Pouplin, Diane Delaroche, Patrick Herson, Mannan Seuleiman, Bernard Bodo, Bastien Nay Further Studies of the Norditerpene (+)-Harringtonolide Isolated from *Cephalotaxus harringtonia* var. *drupacea*: Absolute Configuration, Cytotoxic and Antifungal Activities
- 432 Han, Li, Xueshi Huang, Hans-Martin Dahse, Ute Moellmann, Susanne Grabley, Wenhan Lin, Isabel Sattler New Abietane Diterpenoids from the Mangrove *Avicennia marina*
- 535 Hu, Jiang-Miao, Ji-Jun Chen, Hong Yu, You-Xing Zhao, Jun Zhou Five New Compounds from *Dendrobium longicornu*
- 445 Kang, Qian-jin, Xian-wen Yang, Shao-hua Wu, Yan-ling Ma, Ling Li, Yue-mao Shen Chemical Constituents from the Stem Bark of *Trewia nudiflora* L. and their Antioxidant Activities
- 73 Keusgen, Michael Unusual Cystine Lyase Activity of the Enzyme Alliinase: Direct Formation of Polysulphides
- 864 Kijjoa, Anake, Maria Jose Gonzalez, Madalena M Pinto, Maria São Nascimento, Nair Campos, Ing-On Mondranondra, Artur MS Silva, Graham Eaton, Werner Herz Cytotoxicity of Prenylated Xanthones and Other Constituents from the Wood of *Garcinia merguensis*
- 1276 Lee, Chia-Lin, Po-Ching Huang, Pei-Wen Hsieh, Tsong-Long Hwang, Yu-Yi Hou, Fang-Rong Chang, Yang-Chang Wu (-)-Xanthienopyran, a New Inhibitor of Superoxide Anion Generation by Activated Neutrophils, and Further Constituents of the Seeds of *Xanthium strumarium*
- 1481 Lee, Ji Suk, Hunseung Yoo, Young Ger Suh, Jae Kyung Jung, Jinwoong Kim Structure-Activity Relationship of Pentacyclic Triterpene Esters from *Uncaria rhynchophylla* as Inhibitors of Phospholipase C γ 1
- 867 Lee, Ki Yong, Seung Hyun Kim, Sang Hyun Sung, Young Choong Kim Inhibitory Constituents of Lipopolysaccharide-Induced Nitric Oxide Production in BV2 Microglia isolated from *Amomum tsao-ko*
- 292 Lei, Chun, Sheng-Xiong Huang, Jian-Xin Pu, Jin-Ping Liu, Guang-Yu Yang, Li-Bin Yang, Yang Lu, Ji-Jun Chen, Wei-Lie Xiao, Han-Dong Sun Lanopropionic Acid, A Novel Natural 2,3-Secolanostane Triterpenoid from *Schisandra propinqua* var. *propinqua*
- 287 Li, Jun, Yuanyuan Lu, Xiaojian Su, Fu Li, Zhigang She, Xingcun He, Yongcheng Lin A Norsesquiterpene Lactone and a Benzoic Acid Derivative from the Leaves of *Cyclocarya paliurus* and their Glucosidase and Glycogen Phosphorylase Inhibiting Activities
- 1391 Li, Ting, Xiao-Jiang Hao, Qian-Qun Gu, Wei-Ming Zhu Minor Furofuran Lignans from the Tibetan Herb, *Lancea tibetica*

- 551 Li, Youbin, Jianfeng Zhang, Xiaojie Gu, Yunru Peng, Weihua Huang, Shihui Qian
Two New Cytotoxic Pregnane Glycosides from *Cynanchum auriculatum*
- 754 Liu, Jun-Xi, Duo-Long Di, Xiao-Ning Wei, Yin Han
Cytotoxic Diarylheptanoids from the Pericarps of Walnuts (*Juglans regia*)
- 1291 Liu, Yi, Zulfiqar Ali, Ikhlas A Khan
Cucurbitane-Type Triterpene Glycosides from the Fruits of *Momordica charantia*
- 540 Lv, Liang, Qing-Yun Yang, Ying Zhao, Chun-Suo Yao, Yang Sun, Eun-Ju Yang, Kyung-Sik Song, Inhee Mook-Jung, Wei-Shuo Fang
BACE1 (β -Secretase) Inhibitory Chromone Glycosides from *Aloe vera* and *Aloe nobilis*
- 55 Magid, Abdulmagid Alabdul, Laurence Voutquenne-Nazabadioko, Geoffroy Bontemps, Marc Litaudon, Catherine Lavaud
Tyrosinase Inhibitors and Sesquiterpene Diglycosides from *Guioa villosa*
- 1457 Maia, Alessandra, Isabelle Schmitz-Afonso, Marie-Thérèse Martin, Khalijah Awang, Olivier Laprévote, Françoise Guérinne, Marc Litaudon
Acylphenols from *Myristica crassa* as New Acetyl-cholinesterase Inhibitors
- 1492 Moein, Mahmood R, Shabana I Khan, Zulfiqar Ali, Syed A Ayatollahi, Farzad Kobarfard, Shama Nasim, Muhammad I Choudhary, Ikhlas A Khan
Flavonoids from *Iris songarica* and their Antioxidant and Estrogenic Activity
- 1468 Mosquera, Dulce María, Amuri Kilonda, Suzanne Toppet, Frans Compernolle, Wim Dehaen, Isabelle E François, Bruno P Cammue, Sandra Apers, Luc Pieters, Armando Cuéllar Cuéllar
New Flavonoids from *Boldoa purpurascens* Cav.
- 281 Pittayakhajonwut, Pattama, Pairoh Sohsomboon, Aibrohim Dramaee, Rapheephath Suvannakad, Sanisa Lapanun, Morakot Tantichareon
Antimycobacterial Substances from *Phaeosphaeria* sp BCC8292
- 69 Prachyawarakorn, Vilailak, Chulabhorn Mahidol, Sanya Sureram, Suwannee Sangpetsiripan, Suthep Wiyakrutta, Somsak Ruchirawat, Prasat Kittakoop
Diketopiperazines and Phthalides from a Marine Derived Fungus of the Order Pleosporales
- 267 Radwan, Mohamed M, Samir A Ross, Desmond Slade, Safwat A Ahmed, Fazila Zulfiqar, Mahmoud A ElSohly
Isolation and Characterization of New Cannabis Constituents from a High Potency Variety
- 417 Ramanandraibe, Voahangy, Philippe Grellier, Marie-Thérèse Martin, Alexandre Deville, Roger Joyeau, David Ramanitrahambola, Elisabeth Mouray, Philippe Rasoanaivo, Lengo Mambu
Antiplasmoidal Phenolic compounds from *Piptadenia pervillei*
- 859 Ren, Zhao-Yan, Huan-Yang Qi, Yan-Ping Shi
Phytochemical Investigation of *Anaphalis lactea*
- 1285 Rosselli, Sergio, Antonella Maggio, Cristina Eiroa, Carmen Formisano, Maurizio Bruno, Carlo Irace, Carmen Maffettone, Nicola Mascolo
Cytotoxic Activity of Diterpenoids Isolated from the Aerial Parts of *Elaeoselinum asclepium* subsp. *meoides*
- 760 Sadhu, Samir Kumar, Amina Khatun, Takashi Ohtsuki, Masami Ishibashi
Constituents from *Hoya parasitica* and their Cell Growth Inhibitory Activity
- 175 Sharma, Rajni Kant, Devendra Singh Negi, Simon Gibbons, Hideaki Otsuka
Chemical and Antibacterial Constituents of *Skimmia anquetelia*
- 1488 Šmejkal, Karel, Petr Babula, Tereza Šlapetová, Eleonora Brognara, Stefano Dall'Acqua, Milan Žemlička, Gabbiella Innocenti, Josef Cvačka
Cytotoxic Activity of C-Geranyl Compounds from *Paulownia tomentosa* Fruits
- 1474 Subehan, Subehan, Shigetoshi Kadota, Yasuhiro Tezuka
In Vitro Mechanism-Based Inactivation of Cytochrome P450 3A4 by a New Constituent of *Cinnamomum burmanni*
- 449 Sultan, Md Zakir, Young-Min Jeon, Surk-Sik Moon
Labdane-Type Diterpenes Active against Acne from Pine Cones (*Pinus densiflora*)
- 427 Sun, Yi, Keiichi Tabata, Hideki Matsubara, Susumu Kitanaka, Takashi Suzuki, Ken Yasukawa
New Cytotoxic Diarylheptanoids from the Rhizomes of *Alpinia officinarum*
- 1403 Tangyuenyongwatana, Prasan, Wandee Gritsanapan
A Study on Artifacts Formation in the Thai Traditional Medicine Prasapla
- 80 Tene, Mathieu, Pierre Tane, Jules-Roger Kuiate, Jean de Tamokou, Joseph D Connolly
Anthocleistenolide, A New Rearranged Nor-Secoiridoid Derivative from the Stem Bark of *Anthocleista vogelii*
- 560 Traoré, Maminata, Jerzy W Jaroszewski, Carl Erik Olsen, Jean Bosco Ouédraogo, Guissou I Pierre, Odile G Nacoulma, T Robert Guiguemdé, S Brøgger Christensen
A New Oxygenated Ursane Derivative from *Canthium multiflorum*
- 273 Vasilev, Nikolay, Rainer Ebel, RuAngelie Edrada, Elisabeth Fuss, A Wilhelm Alfermann, Iliana Ionkova, Ana Petrova, Miriam Repplinger, Thomas J Schmidt
Metabolic Profiling of Lignan Variability in *Linum* species of Section Syllinum native to Bulgaria
- 290 Wang, Li-jun, Xiao-li Ye, Xue-gang Li, Qing-lei Sun, Gang Yu, Xiao-gang Cao, Yan-ting Liang, Hua-san Zhang, Jia-zhou Zhou
Synthesis and Antimicrobial Activity of 3-Alkoxyjatrorrhizine Derivatives
- 1280 Wang, Ying, Dongmei Zhang, Wencai Ye, Zhiqi Yin, Kwok-Pui Fung, Shouxue Zhao, Xinsheng Yao
Triterpenoid Saponins from *Androsace umbellata* and their Anti-proliferative Activities in Human Hepatoma Cells
- 1412 Xu, Li-Ping, Hao Wang, Zhong Yuan
Triterpenoid Saponins with Anti-Inflammatory Activity from *Codonopsis lanceolata*
- 546 Zhang, Xiaoqing, Hexiang Wang, Tzi Bun Ng
Isolation and Characterization of a Novel Trypsin Inhibitor from Fresh Lily Bulbs
- 562 Zheng, Yun-Feng, Xian-Feng Huang, Guo-Ping Peng
Structures of Two Novel Heterocyclics from *Whitmania pigra*

Original Paper

- 1678 Chaves, Juliana Siqueira, Paulo César Leal, Luis Pianowisky, João B Calixto
Pharmacokinetics and Tissue Distribution of the Sesquiterpene α -Humulene in Mice
- 1806 Chen, Tai-Hung, Bing-Chung Liau, Sheng-Yang Wang, Ting-Ting Jong
Isolation and Cytotoxicity of the Lignanoids from *Chamaecyparis formosensis*

- 1684 Ding, Chunguang, Yuxin Sheng, Yinghao Zhang, Jinlan Zhang, Guanhua Du
Identification and Comparison of Metabolites After Oral Administration of Essential Oil of *Ligusticum chuanxiong* or its Major Constituent Ligustilide in Rats
- 1701 Gaube, Friedemann, Stefan Wölfl, Larissa Pusch, Ulrike Werner, Torsten C Kroll, Dieter Schrenk, Rolf W Hartmann, Matthias Hamburger
Effects of *Leuzea carthamoides* on Human Breast Adeno-carcinoma MCF-7 Cells Determined by Gene Expression Profiling and Functional Assays
- 1769 Grundmann, Oliver, Jie Wang, Gerard P McGregor, Veronika Butterweck
Anxiolytic Activity of a Phytochemically Characterized *Passiflora incarnata* Extract is Mediated via the GABAergic System
- 1785 Kai, Hisahiro, Masaki Baba, Toru Okuyama
Inhibitory Effect of *Cucumis sativus* on Melanin Production in Melanoma B16 Cells by Downregulation of Tyrosinase Expression
- 1693 Kim, Jong Bin, Eunyoung Ko, Wonshik Han, Incheol Shin, Seo Young Park, Dong-Young Noh
Berberine Diminishes the Side Population and ABCG2 Transporter Expression in MCF-7 Breast Cancer Cells
- 1795 Leite, Ana Cristina, Alessandra Regina Ambrozin, João Batista Fernandes, Paulo Cezar Vieira, Maria Fátima da Silva, Sérgio de Albuquerque
Trypanocidal Activity of Limonoids and Triterpenes from *Cedrela fissilis*
- 1774 Maity, Biswanath, Debashish Banerjee, Sandip K Bandyopadhyay, Subrata Chattopadhyay
Myristica malabarica Heals Stomach Ulceration by Increasing Prostaglandin Synthesis and Angiogenesis
- 1779 Mandal, Anup, Mrinal K Poddar
Long-Term Caffeine Consumption Reverses Tumor-Induced Suppression of the Innate Immune Response in Adult Mice
- 1756 Phrompittayarat, Watoo, Sakchai Wittaya-areekul, Kanchalee Jetiyanon, Waraporn Putalun, Hiroyuki Tanaka, Kornkanok Ingkaninan
Stability Studies of Saponins in *Bacopa monnieri* Dried Ethanolic Extracts
- 1846 Qi, Jianjun, Xianen Li, Jingyuan Song, A Egrinya Eneji, Xiaojun Ma
Genetic Relationships among *Rehmannia glutinosa* Cultivars and Varieties
- 1720 Qiao, Xue, Jian Han, Man Xu, Zi-chuan Zhang, Shifeng Sun, Hui-feng Li, Bao-rong Wang, Min Ye, De-an Guo
Characterization of Chemical Constituents in Guan Xin II Decoction by Liquid Chromatography Coupled with Electrospray Ionization-Mass Spectrometry
- 1709 Szakiel, Anna, Dariusz Ruszkowski, Anna Grudniak, Anna Kurek, Krystyna I Wolska, Maria Doligalska, Virginia Janiszowska
Antibacterial and Antiparasitic Activity of Oleanolic Acid and its Glycosides isolated from Marigold (*Calendula officinalis*)
- 1751 Wang, Xijun, Tetsuro Sakurai, Xi Chen, Hui Sun, Zenghui Wang, Qinglong Sun, Wenjun Sun, Hongxin Cao
Hydrolysis of Flavanone Glycosides and Degradation of the Corresponding Aglycones from Dried Immature Citrus Fruit by Human Fecal Flora *in vitro*
- 1812 Wu, Shi-Biao, Yun Zhao, Hui Fan, Ying-He Hu, Mark T Hamann, Jiang-Nan Peng, Courtney M Starks, Mark O'Neil-Johnson, Jin-Feng Hu
New Guaiiane Sesquiterpenes and Furanocoumarins from *Notopterygium incisum*
- 1832 Xia, Chun-hua, Jian-guo Sun, Hai-ping Hao, Guang-ji Wang, Bei Yan, Sheng-hua Gu, Chao-nan Zheng, Li-li Shang, Michael S Roberts
Quantitative Determination of Ophiopogonin D by Liquid Chromatography/Electrospray Ionization Mass Spectrometry and its Pharmacokinetics in Rat
- 1842 Xue, Chun-Ying, De-Zhu Li, Qing-Zhong Wang
Identification and Quantification of the Traditional Chinese Medicinal Plant *Gentiana macrophylla* using Taq-man Real-Time PCR
- 1730 Ye, LiBin, JingSong Zhang, Kan Zhou, Yan Yang, Shuai Zhou, Wei Jia, RuiXia Hao, YingJie Pan
Purification, NMR Study and Immunostimulating Property of a Fucogalactan from the Fruiting Bodies of *Ganoderma lucidum*
- 1837 Zhang, Xin, Xiaodong Cui, Yuying Li, Zhuanhua Wang
Purification and Biochemical Characterization of a Novel Allergenic Protein from Tatary Buckwheat Seeds
- 1818 Zhang, Zhizhen, Ping Wang, Wei Yuan, Shiyou Li
Steroids, Alkaloids, and Coumarins from *Gelsemium sempervirens*

Perspective

- 1602 Femia, Angelo Pietro, Giovanna Caderni
Rodent Models of Colon Carcinogenesis for the Study of Chemopreventive Activity of Natural Products
- 1644 Francy-Guilford, Jacquelyn, John M Pezzuto
Mechanisms of Cancer Chemopreventive Agents: A Perspective
- 1651 Gescher, Andreas J
Resveratrol from Red Grapes – Pedestrian Polyphenol or Useful Anticancer Agent?
- 1580 Jacob, Claus, Awais Anwar, Torsten Burkholz
Perspective on Recent Developments on Sulfur-Containing Agents and Hydrogen Sulfide Signaling

Pharmacology

- 527 Abdelouahab, Nassima, Charles M Heard
Dermal and Transcutaneous Delivery of the Major Glycoside Constituents of *Harpagophytum procumbens* (Devil's Claw) *in vitro*
- 1387 Ahn, Hyunjin, Joo-Won Nam, Eun-Kyoung Seo, Woongchon Mar
Induction of NAD(P)H:Quinone Reductase by Rutaecarpine Isolated from the Fruits of *Evodia rutaecarpa* in the Murine Hepatic Hepa-1c1c7 Cell Line
- 407 Aponte, José C, Yannick Estevez, Robert H Gilman, Walter H Lewis, Rosario Rojas, Michel Sauvain, Abraham J Vaisberg, Gerald B Hammond
Anti-Infective and Cytotoxic Compounds Present in *Blepharodon nitidum*
- 6 Augustin, Sabine, Patricia Huebbe, Nicole Matzner, Kay Augustin, Reinhard Schliebs, Rainer Cermak, Siegfried Wolffram, Gerald Rimbach
Ginkgo biloba Extract and its Flavonol and Terpenelactone Fractions do not Affect β -Secretase mRNA and Enzyme Activity Levels in Cultured Neurons and in Mice
- 1453 Banzouzi, Jean Théophile, Patrice Njomnang Soh, Bernard Mbatti, Adrien Cavé, Suzanne Ramos, Pascal Retailleau, Olga Rakotonandrasana, Antoine Berry, Françoise Benoit-Vical
Cogniauxia Podolaena: Bioassay-Guided Fractionation of Defoliated Stems, Isolation of Active Compounds, Antiplasmodial Activity and Cytotoxicity

- 712 Barroso, Edjane M, Leandro S Costa, Valquíria P Medeiros, Sara L Cordeiro, Mariana S Costa, Célia R Franco, Helena B Nader, Edda L Leite, Hugo A Rocha
A Non-Anticoagulant Heterofucan has Antithrombotic Activity *in vivo*
- 719 Bonkaka, Celia X, Andrija Smelcerovic, Sebastian Zuehlke, Rosa María Rabanal, Michael Spiteller, Candelaria del Sánchez-Mateo
HPLC-MS Analysis and Anti-Oedematogenic Activity of *Hypericum grandifolium* Choisy (Hypericaceae)
- 385 Buddhakala, Nopparat, Chusri Talubmook, Poonsook Sriyotha, Susan Wray, Sajeera Kupittayanant
Inhibitory Effects of Ginger Oil on Spontaneous and PGF2 α -Induced Contraction of Rat Myometrium
- 828 Byeon, Se Eun, Yong Gyu Lee, Jin-Chul Kim, Jae Gun Han, Hyeon Yong Lee, Jae Youl Cho
Hinokitiol, a Natural Tropolone Derivative, Inhibits TNF- α Production in LPS-Activated Macrophages via Suppression of NF- κ B
- 381 Chan, Sunny Sun-Kin, Ming Zhao, Lixing Lao, Harry H Fong, Chun-Tao Che
Magnolol and Honokiol Account for the Anti-Spasmmodic Effect of *Magnolia officinalis* in Isolated Guinea Pig Ileum
- 25 Choi, Sun Young, Tae Youl Ha, Ji Yun Ahn, Sung Ran Kim, Kyung Sun Kang, In Kyeong Hwang, Suna Kim
Estrogenic Activities of Isoflavones and Flavones and their Structure-Activity Relationships
- 1323 Cos, Paul, Louis Maes, Arnold Vlietinck, Luc Pieters
Plant-Derived Leading Compounds for Chemotherapy of Human Immunodeficiency Virus (HIV) Infection – An Update (19982007)
- 377 Cui, Yong-Ming, Ming-Zhang Ao, Wei Li, Long-Jiang Yu
Effect of Glabridin from *Glycyrrhiza glabra* on Learning and Memory in Mice
- 1374 Dou, Xiaobing, Chunlei Fan, Like Wo, Jin Yan, Ying Qian, Xingde Wo
Curcumin Up-Regulates LDL Receptor Expression via the Sterol Regulatory Element Pathway in HepG2 Cells
- 1265 Ea, Somphey, Sarah Giacometti, Joseph Ciccolini, Valentina Akhmedjanova, Claude Aubert
Cytotoxic Effects of Haplamine and its Major Metabolites on Human Cancer Cell Lines
- 1789 Ekenäs, Catarina, Anna Zebrowska, Barbara Schuler, Tobias Vrede, Katarina Andreasen, Anders Backlund, Irmgard Merfort, Lars Bohlin
Screening for Anti-Inflammatory Activity of 12 *Arnica* (Asteraceae) Species Assessed by Inhibition of NF- κ B and Release of Human Neutrophil Elastase
- 411 Eldeen, Ibrahim M, Fanie R Van Heerden, Johannes Van Staden
Isolation and Biological Activities of Termilignan B and Arjunic Acid from *Terminalia sericea* Roots
- 1436 Engelbertz, Jonas, Tatjana Schwenk, Ute Kinzinger, Detlef Schierstedt, Eugen J Verspohl
Thyme Extract, but not Thymol, Inhibits Endothelin-Induced Contractions of Isolated Rat Trachea
- 802 Espinoza, Marlene, Leonardo S Santos, Cristina Theoduloz, Guillermo Schmeda-Hirschmann, Jaime A Rodríguez
New Gastroprotective Ferruginol Derivatives with Selective Cytotoxicity against Gastric Cancer Cells
- 392 Gao, Qiu T, Jerry K Cheung, Roy C Choi, Anna W Cheung, Jun Li, Zhi Y Jiang, Ran Duan, Kui J Zhao, An W Ding, Tina T Dong, Karl W Tsim
A Chinese Herbal Decoction Prepared from Radix Astragalii and Radix Angelicae Sinensis Induces the Expression of Erythropoietin in Cultured Hep3B Cells
- 852 Groth, Inken, Susanne Alban
Elastase Inhibition Assay with Peptide Substrates – An Example for the Limited Comparability of *in vitro* Results
- 228 Guo, Jifen, Fanhua Meng, Zhiyin Ren, Yimin Zhao
Pharmacokinetics and Tissue Distribution of a Water-Soluble Flavonol Triglycoside, CTN986, in Mice
- 151 Hong, Ji-Young, Hye-Young Min, Guang Hua Xu, Jong-Gu Lee, Seung-Ho Lee, Young Shik Kim, Sam Sik Kang, Sang Kook Lee
Growth Inhibition and G1 Cell Cycle Arrest Mediated by 25-Methoxyhispidol A, a Novel Triterpenoid, Isolated from the Fruit of *Poncirus trifoliata* in Human Hepatocellular Carcinoma Cells
- 1441 Hosseinzadeh, Hossein, Hamid R Sadeghnia, Athena Rahimi
Effect of Safranal on Extracellular Hippocampal Levels of Glutamate and Aspartate During Kainic Acid Treatment in Anesthetized Rats
- 43 Huang, Wu-Yang, Yi-Zhong Cai, Jie Xing, Harold Corke, Mei Sun
Comparative Analysis of Bioactivities of Four *Polygonum* Species
- 156 Huang, Yu-Ling, Soy-Hwee Loke, Ching-Chiang Hsu, Wen-Fei Chiou
(+)-Vitisin A Inhibits Influenza A Virus-Induced RANTES Production in A549 Alveolar Epithelial Cells through Interference with Akt and STAT1 Phosphorylation
- 114 Hwang, In Koo, Soon Sung Lim, Ki-Yeon Yoo, Yeon Sil Lee, Ho Gyoung Kim, Il-Jun Kang, Hyung Joo Kwon, Jinseu Park, Soo Young Choi, Moo-Ho Won
A Phytochemically Characterized Extract of *Cordyceps militaris* and Cordycepin Protect Hippocampal Neurons from Ischemic Injury in Gerbils
- 147 Iranshahi, Mehrdad, Farhad Kalategi, Ramin Rezaee, Ahmad Reza Shahverdi, Chihiro Ito, Hiroshi Furukawa, Harukuni Tokuda, Masataka Itoigawa
Cancer Chemopreventive Activity of Terpenoid Coumarins from *Ferula* Species
- 736 Janković, Teodora, Katarina Šavikin, Nebojša Menković, Ivana Aljančić, Andreja Leskovac, Sandra Petrović, Gordana Joksić
Radioprotective Effects of *Gentianella austriaca* Fractions and Polyphenolic Constituents in Human Lymphocytes
- 1368 Jeong, Gil-Saeng, Ren-Bo An, Hyun-Ock Pae, Hun-Taeg Chung, Kwon-Ha Yoon, Dae-Gill Kang, Ho-Sub Lee, Youn-Chul Kim
Cudraticusxanthone A Protects Mouse Hippocampal Cells against Glutamate-Induced Neurotoxicity via the Induction of Heme Oxygenase-1
- 747 Johansson, Noelle L, Charles S Pavia, Jen Wei Chiao
Growth Inhibition of a Spectrum of Bacterial and Fungal Pathogens by Sulforaphane, an Isothiocyanate Product Found in Broccoli and Other Cruciferous Vegetables
- 521 Kim, Hyun Jung, Igor Baburin, Sophia Khom, Steffen Hering, Matthias Hamburger
HPLC-Based Activity Profiling Approach for the Discovery of GABA Receptor Ligands using an Automated Two Microelectrode Voltage Clamp Assay on *Xenopus* Oocytes
- 39 Kim, Jong Bin, Kyung-Min Lee, Eunyoung Ko, Wonshik Han, Jeong Eon Lee, Incheol Shin, Ji-Yeon Bae, Sangmin Kim, Dong-Young Noh
Berberine Inhibits Growth of the Breast Cancer Cell Lines MCF-7 and MDA-MB-231

- 258 Klausmeyer, Paul, Thomas G McCloud, Badarch Uranchimeg, Giovanni Melillo, Dominic A Scudiero, John H Cardellina, Robert H Shoemaker
Separation and SAR Study of HIF-1 α Inhibitory Tubulosines from *Alangium cf. longiflorum*
- 509 Kostyuk, Vladimir, Alla Potapovich, Tatiana Suhan, Chiara De Luca, Giovanna Pressi, Roberto Dal Toso, Liudmila Korkina
Plant polyphenols against UV-C-induced Cellular Death
- 497 Leal, Luzia K, Francisco Noé Fonseca, Fábio Azevedo Pereira, Kirley M Canuto, Cícero F Felipe, Juvênia Bezerra Fontenele, Márcia V Pitombeira, Edilberto R Silveira, Glauce S Viana
Protective Effects of Amburosides A, a Phenol Glucoside from *Amburana cearensis*, against CCl₄-Induced Hepatotoxicity in Rats
- 396 Lee, In Jeong, Guang-Hua Xu, Jung-Hun Ju, Jeong Ah Kim, Soon-Woo Kwon, Seung Ho Lee, Sang-Bae Han, Youngsoo Kim
21-Methylmelianodiols from *Poncirus trifoliata* as Inhibitors of Interleukin-5 Bioactivity in Pro-B Cells
- 532 Lee, Ji Suk, Masao Hattori, Jinwoong Kim
Inhibition of HIV-1 Protease and RNase H of HIV-1 Reverse Transcriptase Activities by Long Chain Phenols from the Sarcotestas of *Ginkgo biloba*
- 133 Li, Chuangjun, Jingzhi Yang, Shishan Yu, Naihong Chen, Wei Xue, Jingfeng Hu, Dongming Zhang
Triterpenoid Saponins with Neuroprotective Effects from the Roots of *Polygala tenuifolia*
- 840 Lin, Rong-Dih, Yi-Ping Chin, Wen-Chi Hou, Mei-Hsien Lee
The Effects of Antibiotics Combined with Natural Polyphenols against Clinical Methicillin-Resistant *Staphylococcus aureus* (MRSA)
- 1246 Lin, Yun-Lian, Ching-Fen Wu, Yi-Tsau Huang
Phenols from the Roots of *Rheum palmatum* Attenuate Chemotaxis in Rat Hepatic Stellate Cells
- 847 Liu, Ai-Lin, Bo Liu, Hai-Lin Qin, Simon MingYuen Lee, Yi-Tao Wang, Guan-Hua Du
Anti-Influenza Virus Activities of Flavonoids from the Medicinal Plant *Elsholtzia rugulosa*
- 203 Liu, Li, Run Shi, Qiang Shi, Yiyu Cheng, Yang Huo
Protective Effect of Saponins from *Panax notoginseng* against Doxorubicin-Induced Cardiotoxicity in Mice
- 809 Liu, Mei, Yue Dai, Ying Li, Yubin Luo, Fang Huang, Zhunan Gong, Qingyu Meng
Madecassoside Isolated from *Centella asiatica* Herbs Facilitates Burn Wound Healing in Mice
- 741 Lodi, Federica, Rosario Jiménez, Carmen Menendez, Paul W Needs, Juan Duarte, Francisco Perez-Vizcaino
Glucuronidated Metabolites of the Flavonoid Quercetin do not Auto-Oxidise, do not Generate Free Radicals and do not Decrease Nitric Oxide Bioavailability
- 245 Ma, Lingdi, Shihong Wen, Yan Zhan, Yujuan He, Xiaoshan Liu, Jikai Jiang
Anticancer Effects of the Chinese Medicine Matrine on Murine Hepatocellular Carcinoma Cells
- 1269 Madgula, Vamsi LM, Bharathi Avula, Rahul S Pawar, Yatin J Shukla, Ikhlas A Khan, Larry A Walker, Shabana I Khan
In Vitro Metabolic Stability and Intestinal Transport of P57AS3 (P57) from *Hoodia gordonii* and its Interaction with Drug Metabolizing Enzymes
- 726 Min, Byung-Sun, IkSoo Lee, Min-Jung Chang, Jae Kuk Yoo, MinKyun Na, Tran Manh Hung, Phuong Thien Thuong, JongPill Lee, Jung-Hee Kim, Jin Cheol Kim, Mi Hee Woo, Jae Sue Choi, Hyeong-Kyu Lee, KiHwan Bae
Anticomplementary Activity of Triterpenoids from the Whole Plant of *Aceriphyllum rossii* against the Classical Pathway
- 751 Moujir, Laila, Ana M Seca, Artur M Silva, M Carmo Barreto
Cytotoxic Activity of Diterpenes and Extracts of *Juniperus brevifolia*
- 491 Muceniece, Ruta, Kristine Saleniece, Liga Krigere, Juris Rumaks, Zane Dzirkale, Rudolfs Mezhapuke, Jorens Kviesis, Peteris Mekss, Vija Klusa, Helgi B Schiöth, Maija Dambrova
Potato (*Solanum tuberosum*) Juice Exerts an Anticonvulsant Effect in Mice through Binding to GABA Receptors
- 1363 Munari, Carla Carolina, Flávia Aparecida Resende, Jacqueline Morais Alves, João Paulo de Sousa, Jairo Kenupp Bastos, Denise Crispim Tavares
Mutagenicity and Antimutagenicity of *Baccharis dracunculifolia* Extract in Chromosomal Aberration Assays in Chinese Hamster Ovary Cells
- 1253 Nardin, Jeanine Marie, Wesley Maurício de Souza, Juliano Ferreira Lopes, Ângela Florão, Cid Aimbiré de Moraes Santos, Almeriane Maria Weffort-Santos
Effects of *Himatanthus lancifolius* on Human Leukocyte Chemotaxis and their Adhesion to Integrins
- 1338 Neuhaus, Winfried, Gabriele Trauner, Daniela Gruber, Silvester Oelzant, Waltraud Klepal, Brigitte Kopp, Christian R Noe
Transport of a GABA Receptor Modulator and Its Derivatives from *Valeriana officinalis* L. sl. Across an *In Vitro* Cell Culture Model of the Blood-Brain Barrier
- 109 Niu, Ho-Shan, I-Min Liu, Juei-Tang Cheng, Che-Ling Lin, Feng-Lin Hsu
Hypoglycemic Effect of Syringin from *Eleutherococcus senticosus* in Streptozotocin-Induced Diabetic Rats
- 14 Nizamutdinova, Irina Tsoy, Yong Chun Jin, Ju Sun Kim, Min Hye Yean, Sam Sik Kang, Yeong Shik Kim, Jae Heun Lee, Han Geuk Seo, Hye Jung Kim, Ki Churl Chang
Paeonol and Paeoniflorin, the Main Active Principles of *Paeonia albiflora*, Protect the Heart from Myocardial Ischemia/Reperfusion Injury in Rats
- 233 Oh, Kwang-Seok, Yeon Hee Choi, Shi Yong Ryu, Byung Koo Oh, Ho Won Seo, Gyu Hwan Yon, Young Sup Kim, Byung Ho Lee
Cardiovascular Effects of Lignans Isolated from *Saururus chinensis*
- 1380 Park, Eun-Jeon, Yu-Zhe Zhao, Ren-Bo An, Youn-Chul Kim, Dong Hwan Sohn
1,2,3,4,6-Penta-O-galloyl- β -D-glucose from Galla Rhois Protects Primary Rat Hepatocytes from Necrosis and Apoptosis
- 503 Poddar, Avijit, Anindita Banerjee, Srijani Ghanta, Sharmila Chattopadhyay
In vivo Efficacy of Calceolarioside A against Experimental Visceral Leishmaniasis
- 401 Ponticelli, Salvatore, Alessandra Braca, Nunziatina De Tommasi, Sandro De Falco
Competitive ELISA-Based Screening of Plant Derivatives for the Inhibition of VEGF Family Members Interaction with Vascular Endothelial Growth Factor Receptor 1

- 168 Quan, Wenying, Hee Ju Lee, Chul Young Kim, Chu Won Noh, Byung Hun Um, Min-Ho Oak, Kyeong-Man Kim
Anti-Allergic Prenylated Flavonoids from the Roots of *Sophora flavescens*
- 264 Romiti, Nadia, Federica Pellati, Paola Nieri, Stefania Benvenuti, Barbara Adinolfi, Elisabetta Chieli P-Glycoprotein Inhibitory Activity of Lipophilic Constituents of *Echinacea pallida* Roots in a Human Proximal Tubular Cell Line
- 221 Sarawek, Sasiportn, Bjoern Feistel, Ivo Pischel, Veronika Butterweck
Flavonoids of *Cynara scolymus* Possess Potent Xanthinoxidase Inhibitory Activity *in vitro* but are Devoid of Hypouricemic Effects in Rats after Oral Application
- 215 Schinella, Guillermo, Silvia Aquila, Martín Dade, Rosa Giner, María del Carmen Recio, Etile Spegazzini, Perla de Buschiazza, Horacio Tournier, José Luis Ríos
Anti-Inflammatory and Apoptotic Activities of Pomolic Acid Isolated from *Cecropia pachystachya*
- 1667 Seelinger, Günter, Irmgard Merfort, Christoph M Schempp
Anti-Oxidant, Anti-Inflammatory and Anti-Allergic Activities of Luteolin
- 794 Sehmisch, Stephan, Frauke Hammer, Julie Christoffel, Dana Seidlava-Wuttke, Mohammad Tezval, Wolfgang Wuttke, Klaus Michael Stuermer, Ewa Klara Stuermer
Comparison of the Phytohormones Genistein, Resveratrol and 8-Prenylnaringenin as Agents for Preventing Osteoporosis
- 485 Sharifzadeh, Mohammad, Fazel Shamsa, Somayeh Shiran, Mohammad H Karimfar, Abdol H Miri, Hassan Jalalizadeh, Shervin Gholizadeh, Fatemeh Salar, Kaveh Tabrizian
A Time Course Analysis of Systemic Administration of Aqueous Licorice Extract on Spatial Memory Retention in Rats
- 1240 Shen, Ming-Yi, Chien-Liang Liu, Geroge Hsiao, Chiung-Yueh Liu, Kuang-Hung Lin, Duen-Suey Chou, Joen-Rong Sheu
Involvement of p38 MAPK Phosphorylation and Nitrate Formation in Aristolochic Acid-Mediated Antiplatelet Activity
- 1383 Sheridan, Helen, Ingrid Hook, Cora Nestor, Jennifer Coppins, Carsten Ehrhardt, Neil Frankish
Inhibition of LFA-1 Mediated T-Cell Motility by Naphthoquinones
- 1446 Shim, Jae-Seok, Yi-Young Kwon, Young-Sun Han, Jae-Kwan Hwang
Inhibitory Effect of Panduratin A on UV-induced Activation of Mitogen-Activated Protein Kinases (MAPKs) in Dermal Fibroblast Cells
-
- 239 Shim, Jae-Seok, Yi-Young Kwon, Jae-Kwan Hwang
The Effects of Panduratin A Isolated from *Kaempferia pandurata* on the Expression of Matrix Metalloproteinase-1 and Type-1 Procollagen in Human Skin Fibroblasts
- 730 Stanković, Miroslava, Vele Tešević, Vlatka Vajs, Nina Todorović, Slobodan Milosavljević, Dejan Gođevac
Antioxidant Properties of Grape Seed Extract on Human Lymphocyte Oxidative Defence
- 1357 Su, Chin-Cheng, Guang-Wei Chen, Jung-Cheng Kang, Ming-Huan Chan
Growth Inhibition and Apoptosis Induction by Tanshinone IIA in Human Colon Adenocarcinoma Cells
- 126 Sun, Ningyun, Xingwang Zhang, Yi Lu, Wei Wu
In Vitro Evaluation and Pharmacokinetics in Dogs of Solid Dispersion Pellets Containing *Silybum marianum* Extract Prepared by Fluid-Bed Coating
- 1235 Szasz, Bernadett K, Nora Lenkey, Albert M Barth, Arpad Mike, Zsolt Somogyvari, Orsolya Farkas, Balazs Lendvai
Converging Effects of *Ginkgo biloba* Extract at the Level of Transmitter Release, NMDA and Sodium Currents and Dendritic Spikes
- 413 Tanaka, Reiko, Tomoko Nakata, Chiharu Yamaguchi, Shun-ichi Wada, Takeshi Yamada, Harukuni Tokuda
Potential Anti-Tumor-Promoting Activity of 3 α -Hydroxy-D:A-friedooleanan-2-one from the Stem Bark of *Mallotus philippensis*
- 19 Trauner, Gabriele, Sophia Khom, Igor Baburin, Birgit Benedek, Steffen Hering, Brigitte Kopp
Modulation of GABA_A Receptors by Valerenic Extracts is Related to the Content of Valerenic Acid
- 210 Trinh, Hien-Trung, Yong-Wook Shin, Sang-Jun Han, Myung Joo Han, Dong-Hyun Kim
Evaluation of Antipruritic Effects of Red Ginseng and Its Ingredients in Mice
- 515 Verma, Monika, Shashank Kumar Singh, Shashi Bhushan, Harish C Pal, Surinder Kitchlu, Maharaj K Koul, Rajender K Thappa, Ajit K Saxena
Induction of Mitochondrial-Dependent Apoptosis by an Essential Oil from *Tanacetum gracile*
- 105 Wienkötter, N, D Höpner, U Schütte, K Bauer, F Begrow, M El-Dakhakhny, E J Verspohl
The Effect of Nigellone and Thymoquinone on Inhibiting Trachea Contraction and Mucociliary Clearance
- 163 Winkler, Karin, Sebastian Jäger, Gero Leneweit, Rolf Schubert
Interactions of Viscotoxins with Vesicles of Genuine Plant Membranes
- 834 Woo, Sun Wook, Sung Hee Lee, Geonil Ko, Youn-Chul Kim, Dong Hwan Sohn
Isoliquiritigenin Inhibits Cell Proliferation by a Heme Oxygenase-Dependent Pathway in Rat Hepatic Stellate Cells
- 816 Xu, Deyi, Wenfeng Du, Lei Zhao, Andrew K Davey, Jiping Wang
The Neuroprotective Effects of Isosteviol against Focal Cerebral Ischemia Injury Induced by Middle Cerebral Artery Occlusion in Rats
- 142 Yam, Jianying, Alexei Schaab, Matthias Kreuter, Juergen Drewe
Piper cubeba Demonstrates Anti-Estrogenic and Anti-Inflammatory Properties
- 33 Yam, Jianying, Matthias Kreuter, Juergen Drewe
Piper cubeba Targets Multiple Aspects of the Androgen-Signalling Pathway. A Potential Phytotherapy against Prostate Cancer Growth?
- 1345 Yan, Haiyan, Ying Ma, Mei Liu, Lanlan Zhou
The Dual Actions of *Paederia scandens* Extract as a Hypouricemic Agent: Xanthine Oxidase Inhibitory Activity and Uricosuric Effect
- 1351 Yang, Jin, Liang Zhou, Jiping Wang, Guangji Wang, Andrew K Davey
The Disposition of Diammonium Glycyrrhizinate and Glycyrrhetic Acid in the Isolated Perfused Rat Intestine and Liver
- 252 Ye, Jiantao, Yongyuan Guan, Sa Zeng, Deyu Liu
Ampelopsin Prevents Apoptosis Induced by H2O2 in MT-4 Lymphocytes

- 120 Yin, Jun, Na Han, Xinyang Xu, Zhihui Liu, Baoyan Zhang, Shigetoshi Kadota
Inhibitory Activity of the Ethyl Acetate Fraction from *Viscum coloratum* on Bone Resorption
- 1451 Yin, Jun, Na Han, Zhihui Liu, Xinyang Xu, Baoyan Zhang, Shigetoshi Kadota
The *in vitro* Anti-Osteoporotic Activity of some Diaryl-heptanoids and Lignans from the Rhizomes of *Dioscorea spongiosa*
- 822 Yoo, Hye Hyun, Sang-Hyun Lee, Changbae Jin, Dong-Hyun Kim
Mechanism-Based Inactivation of Cytochrome P450 3A4 by Methyleneoxyphenyl Lignans from *Acanthopanax chiisanensis*
- 1259 Yuan, Wei, Yun Zhang, Yakun Ge, Ming Yan, Rong Kuang, Xiaoxiang Zheng
Astragaloside IV Inhibits Proliferation and Promotes Apoptosis in Rat Vascular Smooth Muscle Cells under High Glucose Concentration *in vitro*
- 1229 Zhai, Kui, Li Hu, Juan Chen, Cai-yun Fu, Qiang Chen
Chrysin Induces Hyperalgesia via the GABAA Receptor in Mice

Physiology and Biotechnology

- 474 Cole, Ian B, Jin Cao, Ali R Alan, Praveen K Saxena, Susan J Murch
Comparisons of *Scutellaria baicalensis*, *Scutellaria lateriflora* and *Scutellaria racemosa*: Genome Size, Antioxidant Potential and Phytochemistry
- 1517 Ishikawa, Aya, Nobuyuki Kobayashi, Yoshie Kitamura
Ascorbic Acid Induces Furanocoumarin Production in Organ Cultures of *Glehnia littoralis*
- 188 Kim, Soon-Hee, Yung-Jin Chang, Soo-Un Kim
Tissue Specificity and Developmental Pattern of Amorpha-4,11-diene Synthase (ADS) Proved by ADS Promoter-Driven GUS Expression in the Heterologous Plant, *Arabidopsis thaliana*
- 94 Osuna, Lidia, Elisabeth Moyano, Susana Mangas, Mercè Bonfill, Rosa M Cusidó, M Teresa Piñol, Alejandro Zamilpa, Jaime Tortoriello, Javier Palazón
Immobilization of *Galphimia glauca* Plant Cell Suspensions for the Production of Enhanced Amounts of Galphimine-B
- 90 Zha, Xue-Qiang, Jian-Ping Luo
Production Stability of Active Polysaccharides of *Dendrobium huoshanense* using Long-Term Cultures of Protocorm-Like Bodies

Plenary Lecture

- 594 Gibbons, Simon
Phytochemicals for Bacterial Resistance - Strengths, Weaknesses and Opportunities
- 603 Sucher, Nikolaus J, Maria C Carles
Genome-Based Approaches to the Authentication of Medicinal Plants

Review

- 1560 Aggarwal, Bharat B, Ajaikumar B Kunnumakkara, Kuzhuvvelil B Harikumar, Sheeba T Tharakan, Bokyung Sung, Preetha Anand
Potential of Spice-Derived Phytochemicals for Cancer Prevention

- 1548 Dinkova-Kostova, Albena T
Phytochemicals as Protectors Against Ultraviolet Radiation: Versatility of Effects and Mechanisms
- 699 Domsalla, André, Matthias F Melzig
Occurrence and Properties of Proteases in Plant Latices
- 1608 Gerhauser, Clarissa
Cancer Chemopreventive Potential of Apples, Apple Juice, and Apple Components
- 1593 Hauser, Alexander-Thomas, Manfred Jung
Targeting Epigenetic Mechanisms: Potential of Natural Products in Cancer Chemoprevention
- 1540 Khor, Tin Oo, Siwang Yu, Ah-Ng Kong
Dietary Cancer Chemopreventive Agents – Targeting Inflammation and Nrf2 Signaling Pathway
- 1625 Kulling, Sabine E, Harshadai M Rawel
Chokeberry (*Aronia melanocarpa*)– A Review on the Characteristic Components and Potential Health Effects
- 1656 Oseni, Tawakalitu, Roshani Patel, Jennifer Pyle, V Craig Jordan
Selective Estrogen Receptor Modulators and Phytoestrogens
- 1635 Rimando, Agnes M, Nanjoo Suh
Biological/Chemopreventive Activity of Stilbenes and their Effect on Colon Cancer
- 1526 Surh, Young-Joon, Joydeb Kumar Kundu, Hye-Kyung Na
Nrf2 as a Master Redox Switch in Turning on the Cellular Signaling Involved in the Induction of Cytoprotective Genes by Some Chemopreventive Phytochemicals

Workshop - Echinacea: update on current research

- 638 Gertsch, Jürg
Immunomodulatory Lipids in Plants: Plant Fatty Acid Amides and the Human Endocannabinoid System
- 657 Heinrich, Michael, Maryam Modarai, Andreas Kortenkamp
Herbal Extracts used for Upper Respiratory Tract Infections: Are there Clinically Relevant Interactions with the Cytochrome P450 Enzyme System?
- 633 Woelkart, Karin, Klaus Linde, Rudolf Bauer
Echinacea for Preventing and Treating the Common Cold
- 651 Woelkart, Karin, Peter Dittrich, Eckhard Beubler, Fritz Pilz, Roland Schoop, Andy Suter, Rudolf Bauer
Pharmacokinetics of the Main Alkanides after Administration of three Different *Echinacea purpurea* Preparations in Humans

Workshop - Nasal innate and adaptive immune responses and their influence by herbal preparations

- 693 Pahl, Andreas
Preclinical Modelling Using Nasal Epithelial Cells for the Evaluation of Herbal Extracts for the Treatment of Upper Airway Diseases

Workshop - State of the art in clinical and preclinical studies EPs® 7630 (Umckaloabo®)

- 682 Conrad, Andreas, Uwe Frank
Extract of *Pelargonium sidoides* (EPs® 7630) Displays Anti-Infective Properties by Enhanced Phagocytosis and Differential Modulation of Host-Bacteria Interactions
- 661 Kolodziej, Herbert
Aqueous Ethanolic Extract of the Roots of *Pelargonium sidoides* - New Scientific Evidence for an Old Anti-Infective Phytopharmaceutical

- 686 Matthys, Heinrich, Petra Funk
EPs 7630 Improves Acute Bronchitic Symptoms and Shortens Time to Remission. Results of a Randomised, Double-Blind, Placebo-Controlled, Multicentre Trial
- 667 Schoetz, Karl, Clemens Erdelmeier, Stefan Germer, Hermann Hauer
A Detailed View on the Constituents of EPs® 7630
- 675 Thäle, Carsten, Albrecht Kiderlen, Herbert Kolodziej
Anti-Infective Mode of Action of EPs® 7630 at the Molecular Level

A

- Abdelouahab, Nassima 527
 Abrantes, Marta 1408
 Adinolfi, Barbara 264
 Aggarwal, Bharat B 1560
 Agnihotri, Vijai K 1288
 Agrawal, Dinesh C 780, 1828
 Ahmad, Norazlina 1802
 Ahmed, Safwat A 267
 Ahn, Hyunjin 1387
 Ahn, Ji Yun 25
 Ahond, Alain 438
 Akhmedjanova, Valentina 1265
 Alan, Ali R 474, 482
 Alarcón, Rosana 1463
 Alban, Susanne 852
 Alfermann, A Wilhelm 273
 Ali, Zulfiqar 178, 1291, 1492
 Aljančić, Ivana 736
 Alves, Jacqueline Morais 1363
 Ambrozin, Alessandra Regina 1795
 An, Ren-Bo 1368, 1380
 Anand, Preetha 1560
 Andreasen, Katarina 1789
 Anifandis, G 789
 Ankudey, Frank Joy 555
 Antosiewicz, Jędrzej 1570
 Anwar, Awais 1580
 Ao, Ming-Zhang 377
 Apers, Sandra 1468, 1749
 Aponte, José C 407
 Aquila, Silvia 215
 Aubert, Claude 1265
 Augustin, Kay 6
 Augustin, Sabine 6
 Avramakis, Emmanuel 1496
 Avula, Bharathi 1269
 Awang, Khalijah 1457
 Awouafack, Maurice D 50
 Ayatollahi, Syed A 1492

B

- Baba, Masaki 1785
 Babula, Petr 1488
 Baburin, Igor 19, 521
 Backlund, Anders 1789
 Bae, Ji-Yeon 39
 Bae, Ki Hwan 726
 Bandyopadhyay, Sandip K 1774
 Banerjee, Anindita 503
 Banerjee, Debashish 1774
 Banzouzi, Jean Théophile 1453
 Barreto, M Carmo 751
 Barroso, Edjane M 712
 Barth, Albert M 1235
 Bastos, Jairo Kenupp 1363
 Batkhuu, Javzan 1716
 Bauer, K 105
 Bauer, Rudolf 633, 651
 Begrow, F 105
 Benedek, Birgit 19
 Benoit-Vical, Françoise 438, 1453
 Benvenuti, Stefania 264
 Berry, Antoine 1453
 Beubler, Eckhard 651
 Bhatnagar, Satyendra Prasad 1308

- Bhushan, Shashi 515
 Bodo, Bernard 870
 Bohlin, Lars 1789
 Bonfill, Mercè 94
 Bonkanka, Celia X 719
 Bontemps, Geoffroy 55
 Bovi, Pasquale Delli 588
 Braca, Alessandra 401
 Brognara, Eleonora 1488
 Bruno, Maurizio 1285
 Buddhakala, Nopparat 385
 Burkholz, Torsten 1580
 But, Paul Pui-Hay 889
 Butterweck, Veronika 221, 1769
 Byeon, Se Eun 828

C

- Caderni, Giovanna 1602
 Cai, Xiong 1423
 Cai, Yi-Zhong 43
 Cai, Zong-Wei 458
 Calixto, João B 1678
 Cammue, Bruno P 1468
 Campos, Nair 864
 Cannon, Richard D 1397
 Canuto, Kirley M 497
 Cao, Hongxin 1751
 Cao, Jin 474, 482
 Cao, Xiao-gang 290
 Cardellina, John H 258
 Cardoso-Taketa, Alexandre T 1295
 Carles, Maria C 603
 Carmona, Armando J 171
 Cavé, Adrien 1453
 Cermak, Rainer 6
 Chan, Ho-Yin Edwin 889
 Chan, Ming-Huan 1357
 Chan, Sunny Sun-Kin 381
 Chang, Fang-Rong 1276
 Chang, Ki Churl 14
 Chang, Leng Chee 555
 Chang, Min-Jung 726
 Chang, Yung-Jin 188
 Chattopadhyay, Sharmila 503
 Chattopadhyay, Subrata 1774
 Chaves, Juliana Siqueira 1678
 Che, Chun-Tao 381
 Cheetham, Ronald 1316
 Chen, Feng 889
 Chen, Guang-Wei 1357
 Chen, Hubiao 873
 Chen, Jeremy J 780
 Chen, Ji-Jun 292, 535
 Chen, Juan 1229
 Chen, Li-Ru 464
 Chen, Naihong 133
 Chen, Qiang 1229
 Chen, Tai-Hung 1806
 Chen, Xi 1751
 Chen, Yi-Lei 1826
 Cheng, Juei-Tang 109
 Cheng, Yiyu 203
 Cheng, Yi-Yu 84
 Cheung, Anna W 392
 Cheung, Jerry K 392
 Chiao, Jen Wei 747
 Chieli, Elisabetta 264

- Chin, Yi-Ping 840
 Chinou, I 789
 Chiou, Wen-Fei 156
 Cho, Jae Youl 828
 Choi, Chun Whan 1405
 Choi, Jae Sue 726
 Choi, Roy C 392
 Choi, Soo Young 114
 Choi, Sun Young 25
 Choi, Yeon Hee 233, 1405
 Choi, Young Hae 1295
 Choo, Chee-Yan 1802
 Chou, Duen-Suey 1240
 Choudhary, Muhammad I 1492
 Christensen, S Brøgger 560
 Christoffel, Julie 794
 Chu, Bihai 470
 Chung, Hun-Taeg 1368
 Ciccolini, Joseph 1265
 Cole, Ian B 474, 482
 Compernolle, Frans 1468
 Connolly, Joseph D 80
 Conrad, Andreas 682
 Cooney, Janine M 1397
 Coppins, Jennifer 1383
 Cordeiro, Sara L 712
 Corke, Harold 43
 Cos, Paul 1323
 Costa, Leandro S 712
 Costa, Mariana S 712
 Cravo, Pedro 1408
 Crawford, Alexander D 624
 Cuéllar, Armando Cuéllar 1468
 Cui, Long 422
 Cui, Xiaodong 1837
 Cui, Yong-Ming 377
 Cui, Zhanchen 1823
 Cusidó, Rosa M 94
 Cvačka, Josef 1488

D

- Dade, Martín 215
 Dahse, Hans-Martin 432
 Dai, Yue 809
 Dall'Acqua, Stefano 1488
 Dal Toso, Roberto 509
 Dambrova, Maija 491
 Da Porto, Carla 182
 da Silva, Maria Fátima 1795
 Davey, Andrew K 816, 1351
 de Albuquerque, Sérgio 1795
 De Andrés Segura, Fernando 588
 de Buschiazza, Perla 215
 Decorti, Deborha 182
 De Falco, Sandro 401
 Dehaen, Wim 1468
 Delaroche, Diane 870
 del Carmen Recio, María 215
 De Luca, Chiara 509
 de Moraes Santos, Cid Aimbiré 1253
 Deng, Bin 1423
 Deng, Dawei 1397
 de Sousa, João Paulo 1363
 de Souza, Wesley Maurício 1253
 De Tommasi, Nunziatina 401
 Devaiah, K M 194
 Deville, Alexandre 417

- de Witte, Peter A 624
 Di, Duo-Long 754
 Díaz, Jesús G 171
 Di Giovannantonio, Luca 588
 Di Maro, Antimo 588
 Ding, An W 392
 Ding, Chenguang 1684
 Ding, Ge 470
 Ding, Xiaoyu 470
 Dinkova-Kostova, Albena T 1548
 Dittrich, Peter 651
 Doligalska, Maria 1709
 Domsalla, André 699
 Dong, Tina T 392
 Dörnemann, Dieter 1496
 Dou, Xiaobing 1374
 Dramaes, Aibrohim 281
 Drewe, Juergen 33, 142
 Du, Guanhua 1684
 Du, Guan-Hua 847
 Du, Wenfeng 816
 Duan, Ran 392
 Duarte, Juan 741
 Duarte, Noélia 61, 1408
 Dzirkale, Zane 491

E

- Ea, Sompheary 1265
 Eaton, Graham 864
 Ebel, Rainer 273
 Edrada, RuAngelie 273
 Ehrhardt, Carsten 1383
 Eiroa, Cristina 1285
 Ekenäs, Catarina 1789
 El-Dakhakhny, M 105
 Eldeen, Ibrahim M 411
 Elkholby, Shereen 1316
 ElSohly, Hala N 1288
 ElSohly, Mahmoud A 267
 Eneji, A Egrinya 1846
 Engelbertz, Jonas 1436
 Erdelmeier, Clemens 667
 Esguerra, Camila V 624
 Esperester, Anke 565
 Espinoza, Marlene 802
 Estevez, Yannick 407
 Estévez, Francisco 171
 Evanno, Laurent 870

F

- Fan, Chunlei 1374
 Fan, Hui 1812
 Fang, Wei-Shuo 540
 Farkas, Orsolya 1235
 Feistel, Bjoern 221
 Felipe, Cícero F 497
 Femia, Angelo Pietro 1602
 Feng, Li-Ling 1510
 Feng, Zhenyu 470
 Fernandes, João Batista 1795
 Fernández, José-Antonio 1316
 Ferreira, Maria-José U 61, 1408
 Florão, Ângela 1253
 Flores, Roberto Carrizo 1463
 Fomum, Z Tanee 422

- Fong, Harry H 381
 Fonseca, Francisco Noé 497
 Fontenele, Juvênia Bezerra 497
 Formisano, Carmen 1285
 Franco, Célia R 712
 François, Isabelle E 1468
 Francy-Guilford, Jacquelyn 1644
 Frank, Uwe 682
 Frankish, Neil 1383
 Fronczek, Frank R 178
 Fu, Cai-yun 1229
 Fujita, Masao 787
 Fung, Kwok-Pui 1280
 Funk, Petra 686
 Furukawa, Hiroshi 147
 Fushiya, Shinji 1716
 Fuss, Elisabeth 273

G

- Galanopoulou, P 789
 Galleguillo, Laura Flores 1463
 Ganzena, Markus 453
 Gao, Qiu T 392
 Gaube, Friedemann 1701
 Ge, Guang-Bo 773
 Ge, Yakun 1259
 Gerhauser, Clarissa 1608
 Gerhäuser, Clarissa 1523
 Germer, Stefan 667
 Gertsch, Jürg 638
 Gescher, Andreas J 1523, 1651
 Ghanta, Srijani 503
 Gholizadeh, Shervin 485
 Ghosh, Shekher 1745
 Giacometti, Sarah 1265
 Gibbons, Simon 175, 594
 Gilman, Robert H 407
 Giner, Rosa 215
 Goda, Yukihiro 787
 Gong, Zhunan 809
 Gonzalez, Maria Jose 864
 Gođevac, Dejan 730
 Grabley, Susanne 432
 Green, Ivan R 50
 Grellier, Philippe 417
 Gritsanapan, Wandee 1403
 Groth, Inken 852
 Gruber, Daniela 1338
 Grudniak, Anna 1709
 Grundmann, Oliver 1769
 Gu, Qian-Qun 1391
 Gu, Sheng-hua 1832
 Gu, Sun 470
 Gu, Xiaojie 551
 Guan, Yongyuan 252
 Guardiola, José 1316
 Guérritte, Françoise 1457
 Guggenberger, Manuela 453
 Guiguemdé, T Robert 560
 Guo, De-an 873, 1720
 Guo, Jifen 228
 Guo, Yuanqiang 1767
 Gupta, Anil Kumar 1828
 Gupta, Chandra Prakash 1308

H

- Ha, Tae Youl 25
 Hamann, Mark T 1812
 Hamburger, M 593
 Hamburger, Matthias 521, 582, 791, 885, 1701
 Hammer, Frauke 794
 Hammond, Gerald B 407
 Han, Jae Gun 828
 Han, Jian 873, 1720
 Han, Li 432
 Han, Myung Joo 210
 Han, Na 120, 1451
 Han, Quan-Bin 458
 Han, Sang-Bae 396
 Han, Sang-Jun 210
 Han, Wonshik 39, 1693
 Han, Yin 754
 Han, Young-Sun 1446
 Hao, Da-Cheng 773
 Hao, Hai-ping 1832
 Hao, RuiXia 1730
 Hao, Xiao-Jiang 1391
 Harikumar, Kuzhuvelil B 1560
 Hartmann, Rolf W 1701
 Hasegawa, Tatsuya 1716
 Hassan, Emad M 1749
 Hattori, Masao 532, 1320
 Hauer, Hermann 667
 Hauser, Alexander-Thomas 1593
 Hazni, Hazrina 1802
 He, Xingcun 287
 He, Yujuan 245
 He, Yu-Qi 773
 Heard, Charles M 527
 Heinrich, Michael 657
 Hellenbrand, Nils 764
 Hensel, Andreas 764
 Hering, Steffen 19, 521
 Herson, Patrick 870
 Herz, Werner 171, 864
 Hitotsuyanagi, Yukio 1802
 Hong, Ji- Young 151
 Hong, Kyung Sik 1405
 Hook, Ingrid 1383
 Höpner, D 105
 Hosseinzadeh, Hossein 1441
 Hou, Wen-Chi 840
 Hou, Yu-Yi 1276
 Hsiao, Geroge 1240
 Hsieh, Pei-Wen 1276
 Hsu, Ching-Chiang 156
 Hsu, Feng-Lin 109
 Hu, Jiang-Miao 535
 Hu, Jin-Feng 1812
 Hu, Jingfeng 133
 Hu, Li 1229
 Hu, Ying 773
 Hu, Ying-He 1812
 Hua, Hui-ming 1735
 Huang, Fang 809
 Huang, Po-Ching 1276
 Huang, Sheng-Xiong 292
 Huang, Weihua 551
 Huang, Wu-Yang 43
 Huang, Xian-Feng 562
 Huang, Xueshi 432
 Huang, Yi-Tsau 1246

Huang, Yu-Ling 156
 Huebbe, Patricia 6
 Hung, Tran Manh 726
 Huo, Yang 203
 Hussain, Hidayat 50
 Hwang, In Kyeong 25, 114
 Hwang, Jae-Kwan 239, 1446
 Hwang, Tsong-Long 1276

I

Ibrahim, Nabawya A 1749
 Ingkaninan, Kornkanok 1756
 Innocenti, Gabbriella 1488
 Ionkova, Iliana 273
 Irace, Carlo 1285
 Iranshahi, Mehrdad 147
 Ishibashi, Masami 760
 Ishikawa, Aya 1517
 Ito, Chihiro 147
 Itoigawa, Masataka 147

J

Jacob, Claus 1580
 Jäger, Sebastian 163
 Jain, Neeraj 296
 Jalalizadeh, Hassan 485
 Jang, Dae Sik 1800
 Janiszowska, Wirginia 1709
 Janković, Teodora 736
 Jaroszewski, Jerzy W 560
 Jensen, Dwayne J 1397
 Jeon, Young-Min 449
 Jeong, Gil-Saeng 1368
 Jetiyanon, Kanchalee 1756
 Jia, Wei 1730
 Jiang, Jikai 245
 Jiang, Shan-Hao 1826
 Jiang, Zhi Y 392
 Jiao, Xu-Wen 1504
 Jiménez, Rosario 741
 Jiménez-Ferrer, Jesús Enrique 1430, 1767
 Jin, Changbae 822
 Jin, Yong Chun 14
 Jing, Yong-kui 1735
 Johansson, Noelle L 747
 Joksić, Gordana 736
 Jong, Ting-Ting 1806
 Jordan, V. Craig 1656
 Jossang, Akino 870
 Joyeau, Roger 417
 Ju, Jung-Hun 396
 Juan, Lin 197
 Jung, Jae Kyung 1481
 Jung, Manfred 1593
 Junge, Helmut 1316

K

Kadota, Shigetoshi 120, 1451, 1474
 Kai, Hisahiro 1785
 Kalategi, Farhad 147
 Kamakura, Hiroyuki 787
 Kang, Dae-Gill 1368
 Kang, Il-Jun 114

Kang, Jung-Cheng 1357
 Kang, Kyung Sun 25
 Kang, Qian-jin 445
 Kang, Sam Sik 14, 151
 Kar, Siddhartha 1570
 Karimfar, Mohammad H 485
 Katiyar, Chandra Kant 1308
 Kawasaki, Takeshi 787
 Kengtong, Surapong 1764
 Keusgen, Michael 73
 Khan, Ikhlas A 178, 1269, 1288, 1291, 1492
 Khan, Shabana I 1269, 1492

Khanuja, Suman Preet 296, 1828
 Khatun, Amina 760
 Khom, Sophia 19, 521
 Khor, Tin Oo 1540
 Kiderlen, Albrecht 675
 Kijjoa, Anake 864
 Kilonda, Amuri 1468
 Kim, Chan-Sik 1800
 Kim, Chul Young 168
 Kim, Dong-Hyun 210, 822
 Kim, Ho Gyoung 114
 Kim, Hye Jung 14
 Kim, Hyun Jung 521
 Kim, Jeong Ah 396
 Kim, Jin Cheol 726, 1800
 Kim, Jin-Chul 828
 Kim, Jinwoong 532, 1320, 1481
 Kim, Jong Bin 39, 1693
 Kim, Joo-Hwan 1800
 Kim, Ju Sun 14
 Kim, Jung-Hee 726
 Kim, Junghyun 1800
 Kim, Kyeong-Man 168
 Kim, Sangmin 39
 Kim, Seung Hyun 867
 Kim, Soon-Hee 188
 Kim, Soo-Un 188
 Kim, Suna 25
 Kim, Sung Ran 25
 Kim, Yeong Shik 14
 Kim, Youn-Chul 834, 1368, 1380
 Kim, Young Shik 151, 233, 422, 867, 1405, 1800
 Kim, Youngsoo 396
 Kinzinger, Ute 1436
 Kiprof, Paul 555
 Kitamura, Yoshie 1517
 Kitanaka, Susumu 427
 Kitchlu, Surinder 515
 Kittakoop, Prasat 69
 Klausmeyer, Paul 258
 Klepal, Waltraud 1338
 Klusa, Vija 491
 Ko, Eunyoung 39, 1693
 Ko, Geonil 834
 Kobarfard, Farzad 1492
 Kobayashi, Kyoko 1716
 Kobayashi, Nobuyuki 1517
 Koga, Kazutaka 1716
 Kokkalou, Eugene 573
 Kolodziej, Herbert 661, 675
 Komatsu, Katsuko 787
 Kong, Ah-Ng 1540
 Kong, Jae Yang 1405
 Kopp, Brigitte 19, 1338
 Korkina, Liudmila 509

Kortenkamp, Andreas 657
 Kostyuk, Vladimir 509
 Kotzabasis, Kiriakos 1496
 Kouam, Simeon F 50
 Koul, Maharaj K 515
 Kourounakis, A P 789
 Kreuter, Matthias 33, 142
 Krigere, Liga 491
 Krohn, Karsten 50
 Kroll, Torsten C 1701
 Kuang, Rong 1259
 Kuiate, Jules-Roger 80
 Kulling, Sabine E 1625
 Kulshrestha, Rashmi 1308
 Kumar, Jonnala Kotesh 1828
 Kumar, Sushil 296
 Kundu, Joydeb Kumar 1526
 Kundu, Madan Gopal 1308
 Kunnumakkara, Ajaikumar B 1560
 Kupittayanant, Sajeera 385
 Kurek, Anna 1709
 Kviesis, Jorens 491
 Kwon, Hyung Joo 114
 Kwon, Soon-Woo 396
 Kwon, Yi-Young 239, 1446

L

Lage, Hermann 61
 Lao, Lixing 381
 Lapanun, Sanisa 281
 Laprévote, Olivier 1457
 Lauren, Denis R 1397
 Lavaud, Catherine 55
 Leal, Luzia K 497
 Leal, Paulo César 1678
 Lechtenberg, Matthias 764
 Lee, Byung Ho 233
 Lee, Chen-Yu 780
 Lee, Chia-Lin 1276
 Lee, Ga Young 1800
 Lee, Hee Ju 168
 Lee, Ho-Sub 1368
 Lee, Hyeon Yong 828
 Lee, Hyeong-Kyu 726
 Lee, Hyun Sun 422
 Lee, IkSoo 726
 Lee, In Jeong 396
 Lee, Jae Heun 14
 Lee, Jeong Eon 39
 Lee, Ji Suk 532, 1320, 1481
 Lee, Jong-Gu 151
 Lee, JongPill 726
 Lee, Junwon 422
 Lee, Ki Yong 867
 Lee, Kyung-Min 39
 Lee, Mei-Hsien 840
 Lee, Sang Kook 151
 Lee, Sang-Hyun 822
 Lee, Seung Ho 396
 Lee, Seung-Ho 151
 Lee, Simon MingYuen 847
 Lee, Sung Hee 834
 Lee, Yeon Sil 114
 Lee, Yong Gyu 828
 Lei, Chun 292
 Leite, Ana Cristina 1795
 Leite, Edda L 712

Lendvai, Balazs 1235
 Leneweit, Gero 163
 Lenkey, Nora 1235
 Leskovac, Andreja 736
 Lewis, Walter H 407
 Li, Chuangjun 133
 Li, De-Zhu 302, 1842
 Li, Fei 880
 Li, Fu 287
 Li, Hui-feng 1720
 Li, Jun 287, 392
 Li, Ling 445
 Li, Ming Zhang 1397
 Li, Ping 84
 Li, Shiyou 1818
 Li, Shun-Xing 1302
 Li, Song-Lin 458
 Li, Ting 1391
 Li, Wei 377
 Li, Xianen 1846
 Li, Xue-gang 290
 Li, Xuexia 470
 Li, Ying 809
 Li, Youbin 551
 Li, Yushan 1767
 Li, Yuying 1837
 Li, Zhan-lin 1735
 Liang, Yan-ting 290
 Liapi, C 789
 Liau, Bing-Chung 1806
 Lim, Soon Sung 114
 Lin, Che-Ling 109
 Lin, Kuang-Hung 1240
 Lin, Rong-Dih 840
 Lin, Tsai-Yun 464
 Lin, Wenhan 432
 Lin, Wen-Yu 464
 Lin, Yongcheng 287
 Lin, Yun-Lian 1246
 Linde, Klaus 633
 Litaudon, Marc 55, 1457
 Liu, Ai-Lin 847
 Liu, Bo 847
 Liu, Chien-Liang 1240
 Liu, Chiung-Yueh 1240
 Liu, Deyu 252
 Liu, I-Min 109
 Liu, Jin-Ping 292
 Liu, Jun-Xi 754
 Liu, Li 203
 Liu, Liang 1423
 Liu, Mei 809, 1345, 1853
 Liu, Xiaoshan 245
 Liu, Xing-Bao 773
 Liu, Yi 1291
 Liu, Yonghong 1823
 Liu, Zhihui 120, 1451
 Lodi, Federica 741
 Loke, Soy-Hwee 156
 Lopes, Dinora 1408
 Lopes, Juliano Ferreira 1253
 Lou, Liguang 1741
 Lu, Yang 292
 Lu, Yi 126
 Lu, Yuanyuan 287
 Luan, Hong-Wei 773
 Lucatti, Alejandro 1463
 Luo, Jian-Ping 90
 Luo, Yubin 809

Lv, Liang 540

M

Ma, Lingdi 245
 Ma, Xiaojun 1846
 Ma, Yan-ling 445
 Ma, Ying 1345, 1853
 Madgula, Vamsi LM 1269
 Madureira, Maria do 1408
 Maes, Louis 1323
 Maffettone, Carmen 1285
 Maggio, Antonella 1285
 Magid, Abdulmagid Alabdul 55
 Mahidol, Chulabhorn 69
 Maia, Alessandra 1457
 Maity, Biswanath 1774
 Majumder, Hemanta K 1745
 Mambu, Lengo 417
 Mandal, Anup 1779
 Mangas, Susana 94
 Mar, Woongchon 1387
 Martin, Marie-Thérèse 417, 1457
 Maruyama, Takuro 787
 Mascolo, Nicola 1285
 Matsubara, Hideki 427
 Matthys, Heinrich 686
 Matzner, Nicole 6
 Mbafor, Joseph Tanyi 422
 Mbatchi, Bernard 1453
 McCloud, Thomas G 258
 McGregor, Gerard P 1769
 Medeiros, Valquíria P 712
 Mekss, Peteris 491
 Melillo, Giovanni 258
 Melzig, Matthias F 699
 Menendez, Carmen 741
 Meng, Dahai 1741
 Meng, Fanhua 228
 Meng, Qingyu 809
 Menković, Nebojša 736
 Merfort, Irmgard 1667, 1789
 Mezhapuke, Rudolfs 491
 Mike, Arpad 1235
 Mil-Homens, Tânia 1408
 Milosavljević, Slobodan 730
 Min, Byung-Sun 726
 Min, Hye-Young 151
 Miri, Abdol H 485
 Miyai, Miho 787
 Modarai, Maryam 657
 Moein, Mahmood R 1492
 Moellmann, Ute 432
 Mohn, Tobias 582, 885
 Mondranondra, Ing-On 864
 Mook-Jung, Inhee 540
 Moon, Surk-Sik 449
 Mosquera, Dulce María 1468
 Moujir, Laila 751
 Mouray, Elisabeth 417
 Moyano, Elisabeth 94
 Muceniece, Ruta 491
 Mukhopadhyay, Sibabrata 1745
 Munari, Carla Carolina 1363
 Murata, Toshihiro 1716
 Murch, Susan J 474, 482

N

Na, Hye-Kyung 1526
 Na, MinKyun 726
 Nacoulma, Odile G 560
 Nader, Helena B 712
 Nakata, Tomoko 413
 Nam, Joo-Won 1387
 Nardin, Jeanine Marie 1253
 Nascimento, Maria São 864
 Nasim, Shama 1492
 Navakoudis, Eleni 1496
 Nay, Bastien 870
 Needs, Paul W 741
 Negi, Arvind Singh 1828
 Negi, Devendra Singh 175
 Nestor, Cora 1383
 Neuhaus, Winfried 1338
 Ng, Tzi Bun 546
 Ngamga, Dieudonne 50
 Nguyen-Pouplin, Julie 870
 Niehues, Michael 764
 Nieri, Paola 264
 Niu, Ho-Shan 109
 Nizamutdinova, Irina Tsoty 14
 Njamen, Dieudonné 422
 Noe, Christian R 1338
 Noh, Chu Won 168
 Noh, Dong-Young 39, 1693

O

Oak, Min-Ho 168
 Ocampos, Soledad 1463
 Oelzant, Silvester 1338
 Oh, Byung Koo 233
 Oh, Kwang-Seok 233
 Oh, Won Keun 422
 Ohizumi, Yasushi 1767
 Ohtsuki, Takashi 760
 Ojha, Shweta 1828
 Okuyama, Toru 1785
 Olsen, Carl Erik 560
 O'Neil-Johnson, Mark 1812
 Oseni, Tawakalitu 1656
 Osuna, Lidia 94
 Otsuka, Hideaki 175
 Ouédraogo, Jean Bosco 560

P

Pae, Hyun-Ock 1368
 Pahl, Andreas 693
 Pal, Harish C 515
 Palazón, Javier 94
 Pan, YingJie 1730
 Pang, Qi-Hua 1504
 Parente, Augusto 588
 Park, Eun-Jeon 1380
 Park, Jinseu 114
 Park, Seo Young 1693
 Park, Woo-Kyu 1405
 Patel, Roshani 1656
 Pavia, Charles S 747
 Pawar, Rahul S 1269
 Pei, Yue-hu 1735
 Pellati, Federica 264

- Peng, Guo-Ping 562
 Peng, Jiang-Nan 1812
 Peng, Yunru 551
 Pereda-Miranda, Rogelio 1295
 Pereira, Fábio Azevedo 497
 Perez-Vizcaino, Francisco 741
 Petrova, Ana 273
 Petrović, Sandra 736
 Pezzuto, John M 1644
 Phrompittayarat, Watoo 1756
 Pianowisky, Luis 1678
 Pierre, Guissou I 560
 Pieters, Luc 1323, 1468, 1749
 Pinl, Fritz 651
 Piñol, M Teresa 94
 Pinto, Madalena M 864
 Pischel, Ivo 221
 Pitombeira, Márcia V 497
 Pittayakhajonwut, Pattama 281
 Poddar, Avijit 503
 Poddar, Mrinal K 1779
 Ponticelli, Salvatore 401
 Potapovich, Alla 509
 Poupat, Christiane 438
 Powolny, Anna A 1570
 Prachyawarakorn, Vilailak 69
 Pramanick, Swapan 1745
 Pressi, Giovanna 509
 Pu, Jian-Xin 292
 Pui-Hay But, Paul 458
 Pusch, Larissa 1701
 Putalun, Waraporn 1756
 Pyle, Jennifer 1656

Q

- Qi, Chen 1423
 Qi, Huan-Yang 859
 Qi, Jianjun 1846
 Qian, Liang 470
 Qian, Shihui 551
 Qian, Ying 1374
 Qiang, Shigao 1741
 Qiao, Chun-Feng 458
 Qiao, Xue 873, 1720
 Qin, Hai-Lin 847
 Qizhang, Li 197
 Qu, Shi-Jin 1826
 Quan, Wenyi 168
 Quintana, José 171

R

- Rabanal, Rosa María 719
 Radwan, Mohamed M 267
 Rahimi, Athena 1441
 Rakotonandrasana, Olga 1453
 Ramanandraibe, Voahangy 417
 Ramanitrahimbola, David 417
 Ramos, Suzanne 1453
 Rasoanaivo, Philippe 417
 Rawel, Harshadai M 1625
 Ren, Zhao-Yan 859
 Ren, Zhiyin 228
 Repplinger, Miriam 273
 Resende, Flávia Aparecida 1363
 Retailleau, Pascal 1453

- Rezaee, Ramin 147
 Rimando, Agnes M 1635
 Rimbach, Gerald 6
 Ríos, José Luis 215
 Roberts, Michael S 1832
 Rocha, Hugo A 712
 Rodríguez, Jaime A 802
 Rojas, Rosario 407
 Rojas-Bribiesca, Gabriela 1430, 1767
 Román-Ramos, Rubén 1430, 1767
 Romero-Cerecerero, Ofelia 1430, 1767
 Romiti, Nadia 264
 Ross, Samir A 267
 Rosselli, Sergio 1285
 Roy, Amit 1745
 Ruchirawat, Somsak 69
 Rumaks, Juris 491
 Ruszkowski, Dariusz 1709
 Ryu, Shi Yong 233, 1405

S

- Sadeghnia, Hamid R 1441
 Sadhu, Samir Kumar 760
 Saikia, Dharmendra 1828
 Sakurai, Tetsuro 1751
 Salar, Fatemeh 485
 Saleniece, Kristine 491
 Saléry, Mariette 438
 Sánchez-Mateo, Candelaria del 719
 Sangpetsiripan, Suwannee 69
 Santos, Leonardo S 802
 Sarawek, Sasiporn 221
 Sattler, Isabel 432
 Sauvain, Michel 407
 Šavikin, Katarina 736
 Saxena, Ajit K 515
 Saxena, Praveen K 474, 482
 Schaab, Alexei 142
 Schempp, Christoph M 1667
 Schepmann, Dirk 764
 Schierstedt, Detlef 1436
 Schinella, Guillermo 215
 Schiöth, Helgi B 491
 Schliebs, Reinhard 6
 Schmeda-Hirschmann, Guillermo 802
 Schmidt, Thomas J 273
 Schmitz-Afonso, Isabelle 1457
 Schneider, Ernst 565
 Schoetz, Karl 667
 Schoop, Roland 651
 Schrenk, Dieter 1701
 Schubert, Rolf 163
 Schuler, Barbara 1789
 Schulz, Barbara 50
 Schütte, U 105
 Schwenk, Tatjana 1436
 Scudiero, Dominic A 258
 Seca, Ana M 751
 Seelinger, Günter 1667
 Sehmisch, Stephan 794
 Seidlova-Wuttke, Dana 794
 Seo, Eun-Kyoung 1387
 Seo, Han Geuk 14
 Seo, Ho Won 233
 Seuleiman, Mannan 870
 Shahat, Abdelaaty A 1749
 Shahverdi, Ahmad Reza 147
 Shamsa, Fazel 485
 Shang, Li-li 1832
 Shanker, Karuna 1828
 Sharaf-Eldin, Mahmoud 1316
 Sharifzadeh, Mohammad 485
 Sharma, Rajni Kant 175
 Shasany, Ajit Kumar 296
 Shaw, Pang-Chui 458, 889
 She, Zhigang 287
 Shen, Ming-Yi 1240
 Shen, Yan-Jing 1504
 Shen, Yue-mao 445
 Sheng, Yuxin 1684
 Sheridan, Helen 1383
 Sheu, Joen-Rong 1240
 Shi, Qiang 203
 Shi, Run 203
 Shi, Yan-Ping 859
 Shibata, Toshiro 787
 Shim, Jae-Seok 239, 1446
 Shimada, Hiroshi 787
 Shin, Incheol 39, 1693
 Shin, Yong-Wook 210
 Shiran, Somayeh 485
 Shoemaker, Robert H 258
 Shukla, Gyanesh 1308
 Shukla, Yatin J 1269
 Silva, Artur M 751, 864
 Silveira, Edilberto R 497
 Singh, Shashank Kumar 515
 Singh, Shefali 296
 Singh, Shivendra V 1570
 Slade, Desmond 267
 Šlapetová, Tereza 1488
 Šmejkal, Karel 1488
 Smelcerovic, Andrija 719
 Smillie, Troy J 1288
 Soh, Patrice Njomnang 438, 1453
 Sohn, Dong Hwan 834, 1380
 Sohsomboon, Pairoh 281
 Somogyvari, Zsolt 1235
 Song, Dan-dan 1735
 Song, Jingyuan 1846
 Song, Jing-Zheng 458
 Song, Kyung-Sik 540
 Song, Yue 84
 Sosa, Virginia 1463
 Spegazzini, Etile 215
 Spiteller, Michael 719
 Sriyotha, Poonsook 385
 Stanković, Miroslava 730
 Starks, Courtney M 1812
 Stavropoulos, Ilias 1496
 Sticher, Otto 791
 Stromquist, Emily R 555
 Stuermer, Ewa Klara 794
 Stuermer, Klaus Michael 794
 Stuppner, Hermann 453
 Su, Chin-Cheng 1357
 Su, Xiaojian 287
 Subehan, Subehan 1474
 Sucher, Nikolaus J 603
 Suh, Nanjoo 1635
 Suh, Young Ger 1481
 Suhan, Tatiana 509
 Sukrong, Suchada 1764
 Sultan, Md Zakir 449
 Sun, Han-Dong 292
 Sun, Hui 1751

- Sun, Jian-guo 1832
 Sun, Lin 1735
 Sun, Mei 43
 Sun, Ningyun 126
 Sun, Qing-lei 290
 Sun, Qinglong 1751
 Sun, Shi-feng 1720
 Sun, Wenjun 1751
 Sun, Yang 540
 Sun, Yi 427
 Sung, Bokyung 1560
 Sung, Sang Hyun 867
 Sureram, Sanya 69
 Surh, Young-Joon 1526
 Suter, Andy 651
 Suter, Kathrin 582
 Suvannakad, Rapheephat 281
 Suzuki, Takashi 427
 Szakiel, Anna 1709
 Szasz, Bernadett K 1235

T

- Tabata, Keiichi 427
 Tabrizian, Kaveh 485
 Takano, Fumihide 1716
 Takeya, Koichi 1802
 Talubmook, Chusri 385
 Tamokou, Jean de 80
 Tan, Chang-Heng 1826
 Tan, Jun-Jie 1826
 Tanaka, Hiroyuki 1756
 Tanaka, Reiko 413
 Tandon, Sudeep 1828
 Tane, Pierre 50, 80
 Tangyuenyongwatana, Prasan 1403
 Tantichareon, Morakot 281
 Tao, Huaming 1823
 Tavares, Denise Crispim 1363
 Tene, Mathieu 80
 Termentzi, Aikaterini 573
 Tešević, Vele 730
 Tezuka, Yasuhiro 1474
 Tezval, Mohammad 794
 Thäle, Carsten 675
 Thappa, Rajender K 515
 Tharakan, Sheeja T 1560
 Theodosopoulos, S 789
 Theoduloz, Cristina 802
 Thuong, Phuong Thien 422, 726
 Tiwari, Richa 1828
 Todorović, Nina 730
 Tokuda, Harukuni 147, 413
 Tonn, Carlos 1463
 Toppet, Suzanne 1468
 Torres, Fernando 171
 Tortoriello, Jaime 94, 1430, 1767
 Tournier, Horacio 215
 Traoré, Maminata 560
 Trauner, Gabriele 19, 1338
 Trinh, Hien-Trung 210
 Tsay, Hsin-Sheng 780
 Tsim, Karl W 392

U

- Um, Byung Hun 168

- Upritchard, Jenine E 1397
 Uranchimeg, Badarch 258

V

- Vaisberg, Abraham J 407
 Vajrodaya, Srunya 1764
 Vajs, Vlatka 730
 Van Heerden, Fanie R 411
 Van Staden, Johannes 411
 Vasilev, Nikolay 273
 Venkatasubramanian, Padma 194
 Verma, Monika 515
 Verpoorte, Robert 1295
 Verspohl, E J 105
 Verspohl, Eugen J 1436
 Viana, Glauce S 497
 Vieira, Paulo Cezar 1795
 Villarreal, María Luisa 1295
 Vlietinck, Arnold 1323, 1749
 von der Heydt, Holger 565
 Vongsak, Boonyadist 1764
 Voutquenne-Nazabadioko, Laurence 55
 Vrede, Tobias 1789

W

- Wada, Shun-ichi 413
 Walker, Larry A 1269, 1288
 Wang, Baorong 873
 Wang, Bao-rong 1720
 Wang, Chang-Sheng 780
 Wang, Duo 84
 Wang, Guangji 1351
 Wang, Guang-ji 1832
 Wang, Hao 1412
 Wang, Hexiang 546
 Wang, Hong 302
 Wang, Jie 1769
 Wang, Jiping 816, 1351
 Wang, Jun 889
 Wang, Li-jun 290
 Wang, Li-li 1735
 Wang, Lishu 1823
 Wang, Ming Zhong 1397
 Wang, Ping 1818
 Wang, Qing-Zhong 302, 1842
 Wang, Sheng-Yang 1806
 Wang, Xijun 1751
 Wang, Ying 470, 1280
 Wang, Yi-Tao 847
 Wang, Zenghui 1751
 Wang, Zheng-Tao 773
 Wang, Zhuanhua 1837
 Weathers, Pamela 1316
 Weffort-Santos, Almeriane Maria 1253
 Wei, Xiao-Ning 754
 Wen, Shihong 245
 Werner, Ulrike 1701
 Wienkötter, N 105
 Winkler, Karin 163
 Wittaya-areekul, Sakchai 1756
 Wiyakrutta, Suthep 69
 Wo, Like 1374
 Wo, Xingde 1374
 Woelkart, Karin 633, 651
 Wolffram, Siegfried 6

- Wölfli, Stefan 1701
 Wolska, Krystyna I 1709
 Won, Moo-Ho 114
 Wong, Ka-Lok 889
 Woo, Mi Hee 726
 Woo, Sun Wook 834
 Wray, Susan 385
 Wu, Ching-Fen 1246
 Wu, Shao-hua 445
 Wu, Shi-Biao 1812
 Wu, Wei 126
 Wu, Yang-Chang 1276
 Wünsch, Bernhard 764
 Wurms, Kirstin V 1397
 Wuttke, Wolfgang 794

X

- Xenophontos, Marina 1496
 Xia, Chun-hua 1832
 Xiao, Wei-Lie 292
 Xing, Jie 43
 Xu, Deyi 816
 Xu, Guang Hua 151
 Xu, Guang-Hua 396
 Xu, Hong-Xi 458
 Xu, Jing 1767
 Xu, Li-Ping 1412
 Xu, Man 873, 1720
 Xu, Min 1423
 Xu, Xiao-Ling 1510
 Xu, Xinyang 120, 1451
 Xuanwei, Zhou 197
 Xue, Chun-Ying 302, 1416, 1842
 Xue, Heng-Gang 302, 1416
 Xue, Wei 133

Y

- Yam, Jianying 33, 142
 Yamada, Keiko 1716
 Yamada, Takeshi 413
 Yamaguchi, Chiharu 413
 Yamakuni, Tohru 1767
 Yamamoto, Yutaka 787
 Yan, Bei 1832
 Yan, Haiyan 1345, 1853
 Yan, Jin 1374
 Yan, Ming 1259
 Yan, Ping 1504
 Yang, Eun-Ju 540
 Yang, Guang-Yu 292
 Yang, Jin 1351
 Yang, Jingzhi 133
 Yang, Li-Bin 292
 Yang, Ling 773
 Yang, Qing-Yun 540
 Yang, Rui-Yi 1510
 Yang, Xian-wen 445
 Yang, Xiu-wei 880
 Yang, Xue-Qin 1510
 Yang, Yan 1730
 Yao, Chun-Suo 540
 Yao, Xinsheng 1280
 Yasukawa, Ken 427
 Ye, Jiantao 252
 Ye, LiBin 1730

- Ye, Min 873, 1720
 Ye, Wencai 1280
 Ye, Xiao-li 290
 Yean, Min Hye 14
 Yin, Jun 120, 1451
 Yin, Lu-Lu 1510
 Yin, Zhiqi 1280
 Yiyuan, Chen 197
 Yizhou, Yin 197
 Yon, Gyu Hwan 233, 1405
 Yoo, Dae Seok 1405
 Yoo, Hunseung 1481
 Yoo, Hye Hyun 822
 Yoo, Jae Kuk 726
 Yoo, Ki-Yeon 114
 Yoon, Kwon-Ha 1368
 Yoshizaki, Fumihiko 1716
 Yu, Gang 290
 Yu, Hong 535
 Yu, Long-Jiang 377
 Yu, Man-Tang 889
 Yu, Shishan 133
 Yu, Siwang 1540
 Yu, Su-May 780
 Yuan, Wei 1259, 1818
 Yuan, Zhong 1412

Z

- Zamilpa, Alejandro 94, 1430, 1767
 Zebrowska, Anna 1789
 Žemlička, Milan 1488
 Zeng, Qing-Ping 1510
 Zeng, Sa 252
 Zha, Xue-Qiang 90
 Zhai, Kui 1229
 Zhan, Yan 245
 Zhang, Baoyan 120, 1451
 Zhang, Dongmei 1280
 Zhang, Dongming 133
 Zhang, Hua-san 290
 Zhang, Jianfeng 551
 Zhang, JingSong 1730
 Zhang, Jinlan 1684
 Zhang, Xiaoqing 546
 Zhang, Xin 1837
 Zhang, Xingwang 126
 Zhang, Yan-Yan 773
 Zhang, Yinghao 1684
 Zhang, Yun 1259
 Zhang, Zhizhen 1818
 Zhang, Zi-chuan 1720
 Zhao, Daqing 1823
 Zhao, Kui J 392
 Zhao, Lei 816
 Zhao, Ming 381
 Zhao, Shouxue 1280
 Zhao, Shu-Jin 1504
 Zhao, Weimin 1741
 Zhao, Xuan 1504
 Zhao, Yimin 228
 Zhao, Ying 540
 Zhao, You-Xing 535
 Zhao, Yun 1812
 Zhao, Yu-Zhe 1380
 Zheng, Chao-nan 1832
 Zheng, Feng-Ying 1302
 Zheng, Junhua 873