

JOURNAL OF COMPLEMENTARY AND INTEGRATIVE MEDICINE

EDITOR-IN-CHIEF

Edmund M. K. Lui, London, Canada

EDITORS

Kelvin Chan, Sydney, Australia

Simon Chiu, London, Canada

Robert Kam-Ming Ko, Hong Kong, China

Kelvin Sze-Yin Leung, Hong Kong, China

Paul Saunders, Toronto, Canada

Carmen Tamayo, Bethesda, MD, USA

Zhang-Jin Zhang, Hong Kong, China

Trish Dryden, Scarborough, Canada

Nina L. Etkin, Honolulu, Hawaii

Jeanette Ezzo, Maryland, USA

Barbara Findlay, Richmond, Canada

Gerhard Franz, Regensburg, Germany

Mahabir Gupta, Panama, Rep. de Panamá

Maurice Hirst, London, Canada

Freddie-Ann Hoffman, Washington, DC, USA

Zhuohan Hu, Shanghai, China

Tannis M. Jurgens, Dalhousie, Canada

Allan S.Y. Lau, Hong Kong, China

Francis C.P. Law, Burnaby, Canada

P.C. Leung, Hong Kong, China

Maria Lara Marquez, Caracas, Venezuela

Patrica Morley-Forster, London, Canada

Pulok K. Mukherjee, Jadavpur, India

Liliana Pazos, San Jose, Costa Rica

Gregor Reid, London, Canada

Mary Ann Richardson, Washington, DC, USA

Catherine Ulbricht, Boston, USA

Mary Wu, Toronto, Canada

EDITORIAL BOARD

John T. Arnason, Ottawa, Canada

Steven K.H. Aung, Alberta, Canada

Robert Banner, Toronto, Canada

Zhao Xiang Bian, Hong Kong, China

Heather Boon, Toronto, Canada

Aileen P. Burford-Mason, Toronto, Canada

Harpal S. Buttar, Ottawa, Canada

Ke-Ji Chen, Beijing, China

Mottie Chevion, Jerusalem, Israel

Patrick C. Chow, Manitoba, Canada

Jean-Paul Collet, Vancouver, Canada

DE GRUYTER

ABSTRACTED/INDEXED IN Abstracts on Hygiene and Communicable Diseases (AHCD); Agroforestry Abstracts; CAB Abstracts; Celdes; CNKI Scholar (China National Knowledge Infrastructure); Cinahl; CNPIEC; Crop Physiology Abstracts; Discovery Service; EMBASE; Forest Products Abstracts; Forestry Abstracts; Global Health; Google Scholar; Horticultural Science Abstracts; J-Gate; Medline; Naviga (Softweco); Nutrition Abstracts and Reviews; Plant Breeding Abstracts; Plant Genetic Resources Abstracts; Postharvest Abstracts; Primo Central (ExLibris); PubMed; PubsHub; Rehabilitation & Sports Medicine Source; Review of Aromatic and Medicinal Plants (RAMP); Rural Development Abstracts; SCOPUS; SPORTDiscus; Sugar Industry; Summon (Serials Solutions/ProQuest); TDOne (TDNet); Abstracts; TOC Premier; Tropical Diseases Bulletin; Veterinary Science Database; World Agricultural Economics and Rural Sociology Abstracts (WAERSA); WorldCat (OCLC).

The publisher, together with the authors and editors, has taken great pains to ensure that all information presented in this work (programs, applications, amounts, dosages, etc.) reflects the standard of knowledge at the time of publication. Despite careful manuscript preparation and proof correction, errors can nevertheless occur. Authors, editors and publisher disclaim all responsibility for any errors or omissions or liability for the results obtained from use of the information, or parts thereof, contained in this work.

The citation of registered names, trade names, trademarks, etc. in this work does not imply, even in the absence of a specific statement, that such names are exempt from laws and regulations protecting trademarks etc. and therefore free for general use.

ISSN 2194-6329 · e-ISSN 1553-3840

All information regarding notes for contributors, subscriptions, Open Access, back volumes and orders is available online at www.degruyter.com/jcim.

RESPONSIBLE EDITOR Edmund M.K. Lui, PhD, Department of Physiology and Pharmacology, Medical Sciences Building, Room 286, The University of Western Ontario London, Ontario, Canada, N6A 5C1, Email: Ed.Lui@schulich.uwo.ca

JOURNAL MANAGER Heike Jahnke, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05-220, Fax: +49 (0)30 260 05-325, Email: heike.jahnke@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Heiko Schulze, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany.
Tel.: +49 (0)30 260 05-358, Fax: +49 (0)30 260 05-264
Email: anzeigen@degruyter.com

© 2015 Walter de Gruyter GmbH, Berlin/Munich/Boston

TYPESETTING Integra Software Services Pvt. Ltd., Pondicherry, India

PRINTING Franz X. Stückle Druck und Verlag e.K., Ettenheim
Printed in Germany

COVER ILLUSTRATION Sander Sander/Thinkstock



Offenlegung der Inhaber und Beteiligungsverhältnisse gem. § 7a Abs. 1 Ziff. 1, Abs. 2 Ziff. 3 des Berliner Pressegesetzes: Die Gesellschafter der Walter de Gruyter GmbH sind: Cram, Gisela, Rentnerin, Berlin; Cram, Elsbeth, Pensionärin, Rosengarten-Alvesen; Cram, Margret, Studienrätin i.R., Berlin; Cram, Dr. Georg-Martin, Unternehmens-Systemberater, Stadtbergen; Cram, Maike, Berlin; Cram, Jens, Mannheim; Cram, Ingrid, Betriebsleiterin, Tuxpan / Michoacan (Mexiko); Cram, Sabina, Mexico, DF (Mexiko); Cram, Silke, Wissenschaftlerin, Mexico DF (Mexiko); Cram, Björn, Aachen; Cram, Ella Anita, Rentnerin, Berlin; Cram, Berit, Greifswald; Cram-Gomez, Susanne, Mexico DF (Mexiko); Cram-Heydrich, Walter, Mexico DF (Mexico); Cram-Heydrich, Kurt, Angestellter, Mexico DF (Mexico); Duvenbeck, Brigitte, Oberstudienrätin i.R., Bad Homburg; Fund, Dr. Sven, Berlin; Gädeke, Gudula, M.A., Atemtherapeutin/Lehrerin, Tübingen; Gädeke, Martin, Einzelunternehmer, Würzburg; Lubasch, Dr. Annette, Ärztin, Berlin; Schütz, Dr. Christa, Ärztin, Mannheim; Schütz, Sonja, Berlin; Schütz, Julianne, Berlin; Schütz, Antje, Berlin; Schütz, Valentin, Berlin; Seils, Dorothee, Apothekerin, Stuttgart; Seils, Gabriele, Journalistin, Berlin; Seils, Dr. Clara-Eugenie, Oberstudienrätin i.R., Reppenstedt; Seils, Christoph, Journalist, Berlin; Siebert, John-Walter, Pfarrer, Oberstenfeld.

Contents

Review

Deepa K. Ingawale, Satish K. Mandlik and Snehal S. Patel
An emphasis on molecular mechanisms of anti-inflammatory effects and glucocorticoid resistance — 1

Preclinical Studies

Télesphore Benoît Nguelefack, Chamberlin Fodem, Elvine Pami Nguelefack-Mbujo, Paulin Nyadjeu, Sylvie Léa Wansi, Pierre Watcho and Albert Kamanyi
Endothelium nitric oxide-independent vasorelaxant effects of the aqueous extract from *Stephania abyssinica* on the isolated rat thoracic aorta — 15

Joseph Fadeyemi Akinrinmade, Stephen Akinleye Akinrinde, Atinuke Odejobi and Adetokunbo Ademola Oyagbemi
Evidence of attenuation of intestinal ischemia-reperfusion injury following pre-treatment with methanolic extracts from *Chromolena odorata* in rats — 23

Nabil A. Khouri, Haytham M. Daradka, Mohammed Z. Allouh and Ahmad S. Alkofahi
Comparative effects of *Orchis anatolica* vs. the red Korean *Panax ginseng* treatments on testicular structure and function of adult male mice — 33

Quan Zhang, Hui Wang, Ming Liang Cheng, Mingchang Jin, Qing Zhi Meng, Liang Duan and Yun Chen
The Miaoyao Fanggan Sachets regulate humoral immunity and cellular immunity in mice — 43

Johnny Olufemi Olukunle, Eniope Bamidele Jacobs, Olusola Lawrence Ajayi, Khalid Talha Biobaku and Mathew Oluwole Abatan
Toxicological evaluation of the aqueous extract of *Acalypha wilkesiana* in Wistar albino rats — 53

Clinical Studies

Michael Sanatani, Jawaid Younus, Larry Stitt and Nazish Malik
Tolerability of the combination of ginger (*Zingiber officinalis*), gentian (*Gentiana lutea*) and turmeric (*Curcuma longa*) in patients with cancer-associated anorexia — 57

Hina Rehman, Wajeeha Begum, Farzana Anjum, Humyra Tabasum and Shabnam Zahid
Effect of rhubarb (*Rheum emodi*) in primary dysmenorrhoea: a single-blind randomized controlled trial — 61

Gebre Michael Kibreab Habtom
Integrating traditional medical practice with primary healthcare system in Eritrea — 71

Yasuhiro Ujiie and Hiroki Okada
Factors affecting the use of complementary and alternative medicine among Japanese university students — 89

Short Communication

Aaron C. Tan and Jenson C.S. Mak
Complementary and alternative medicine in diabetes (CALMIND) – a prospective study — 95

Online Only: Congress Abstracts

(available at <http://www.degruyter.com/view/j/jcim.2015.12.issue-1/issue-files/jcim.2015.12.issue-1.xml>)

2014 IN-CAM Research Symposium: The Next Wave of Complementary and Integrative Medicine and Health Care Research
Marriott Hotel, Calgary Alberta (Canada), 6–8 November 2014 — eA1