

BIOSCIENCES

ZEITSCHRIFT FÜR NATURFORSCHUNG C

EDITOR-IN-CHIEF

N. Amrhein, Zürich

J. Seibel, Würzburg

ADVISORY BOARD

A. Aigner, Leipzig

W. Boland, Jena

U. Bornscheuer, Greifswald

S. Dübel, Braunschweig

K. H. Hoffmann, Bayreuth

EDITORIAL BOARD

H. Budzikiewicz, Köln

B. Dräger, Halle

T. Opatz, Mainz

E. Rösch, Pforzheim

K.-D. Spindler, Ulm

D. Strack, Halle

DE GRUYTER

ABSTRACTED/INDEXED IN Chemical Abstracts Service (CAS) – SciFinder; Elsevier SCOPUS; Medline; PubMed; SCImago (SJR); Thomson Reuters: BIOSIS Previews, Current Contents/Life Sciences, Journal Citation Reports/Science Edition, Science Citation Index, Science Citation Index Expanded.

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 of 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 0939-5075 · e-ISSN 1865-7125

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

RESPONSIBLE EDITOR Prof. Dr. Juergen Seibel, Universitaet Wuerzburg, Institut fuer Organische Chemie, Am Hubland, 97074 Wuerzburg, Germany

JOURNAL MANAGER Ulrike Kitzing, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany. Tel.: +49 (0)30 260 05-344, Email: ulrike.kitzing@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Claudia Neumann, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany. Tel.: +49 (0)30 260 05-226, Fax: +49 (0)30 260 05-264, Email: anzeigen@degruyter.com

© 2016 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING Compuscript Ltd., Shannon, Ireland

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

COVER ILLUSTRATION Detail of the structure of bryostatin 1. The structure of bryostatin 1 was determined in 1982. To date 20 different bryostatins have been isolated. Bryostatins are potent modulators of protein kinase C. They are currently under investigation as anti-cancer agents, as anti-AIDS/HIV agents and as a memory-enhancing agent.



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: Clara Cram Stiftung, Berlin; Cram, Gisela, Rentnerin, Berlin; Cram, Dr. Georg-Martin, Unternehmens-Systemberater, Stadtbergen; Cram, Maike, Berlin; Cram, Jens, Mannheim; Cram-Heydrich, Ingrid, Betriebsleiterin, Tuxpan / Michoacan (Mexiko); Cram-Heydrich, 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 (Mexiko); Cram-Heydrich, Kurt, Angestellter, Mexico DF (Mexiko); Duvenbeck, Brigitta, Oberstudienrätin i.R., Bad Homburg; 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, Juliane, 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; Walter de Gruyter Stiftung, Berlin.

Contents

Yong-qiang Zhang, Zhen-guo Yang, Wei Ding and Jin-Xiang Luo

Synergistic inhibitory effect of scopoletin and bisdemethoxycurcumin on *Tetranychus cinnabarinus* (Boisduval) (Acari: Tetranychidae) — 1

Radka Z. Vrancheva, Ivan G. Ivanov, Ina Y. Aneva, Ivayla N. Dincheva, Ilian K. Badjakov and Atanas I. Pavlov

Alkaloid profiles and acetylcholinesterase inhibitory activities of *Fumaria* species from Bulgaria — 9

Sergi H. Akone, Georgios Daletos, Wenhan Lin and Peter Proksch

Unguisin F, a new cyclic peptide from the endophytic fungus *Mucor irregularis* — 15

Mi Hwa Park, Jae-Won Ju, Mihyang Kim and Ji-Sook Han

The protective effect of daidzein on high glucose-induced oxidative stress in human umbilical vein endothelial cells — 21

Ahmed Abdel-Lateff, Ahmed M. Al-Abd, Abdulrahman M. Alahdal, Walied M. Alarif, Seif-Eldin N. Ayyad, Sultan S. Al-Lihaibi, Mohamed E. Hegazy, Ameen Al Mohammadi, Tamer M. Abdelghany, Ashraf B. Abdel-Naim, Mohamed A.A. Moustafa, Zainy M. Banjer and Ahmad S. Azhar
Antiproliferative effects of triterpenoidal derivatives, obtained from the marine sponge *Siphonochalina* sp., on human hepatic and colorectal cancer cells — 29

Obituary

Nikolaus Amrhein

Professor Peter Böger (23.03.1935 – 22.10.2015) — 37