

43rd IUPAC World Congress on Chemistry 2011

Chemistry Bridging Innovation Among the Americas and the World

**Pure and Applied Chemistry
Vol. 84, No. 9**

**San Juan, Puerto Rico
30 July - 7 August 2011**

Editor:

N. Carballeira

ISBN: 978-1-5108-0020-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2011) by International Union of Pure and Applied Chemistry (IUPAC)
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact International Union of Pure and Applied Chemistry (IUPAC)
at the address below.

International Union of Pure and Applied Chemistry (IUPAC)
c/o Dr. Lynn Soby
P.O. Box 13757
Research Triangle Park
NC 27709-3757

Phone: (919) 485-8700
Fax: (919) 485-8706

lsoby@iupac.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Natural Products from Brazilian Biodiversity as a Source of New Models for Medicinal Chemistry	1837
<i>V. Bolzani, M. Valli, M. Pivatto, C. Viegas</i>	
Bioactive Cubitane Diterpenoids from a Colombian Gorgonian Species of the Genus Eunicea	1847
<i>X. Wei, K. Nieves, A. Rodriguez</i>	
Structure- and Ligand-based Drug Design Approaches for Neglected Tropical Diseases	1857
<i>R. Guido, G. Oliva, A. Andricopulo</i>	
First Total Synthesis of the (\pm)-2-Methoxy-6-Heptadecynoic acid and Related 2-Methoxylated Analogs as Effective Inhibitors of the Leishmania Topoisomerase IB Enzyme	1867
<i>N. Carballeira, M. Cartagena, F. Li, Z. Chen, C. Prada, E. Calvo-Alvarez, R. Reguera, R. Balana-Fouce</i>	
Potent and Selective 2-Oxoamide Inhibitors of Phospholipases A₂ as Novel Medicinal Agents for the Treatment of Inflammatory Diseases	1877
<i>E. Barbayianni, G. Antonopoulou, G. Kokotos</i>	
Structural and Functional Impairments of Polysialic Acid (polySia)-Neural Cell Adhesion Molecule (NCAM) Synthesized by a Mutated Polysialyltransferase of a Schizophrenic Patient	1895
<i>M. Hane, M. Sumida, K. Kitajima, C. Sato</i>	
Balancing Life with Glycoconjugates: Monitoring Unfolded Protein Response-Mediated Anti-Angiogenic Action of Tunicamycin by Raman Spectroscopy	1907
<i>M. Longas, A. Kotapati, K. Prasad, A. Benerjee, J. Santiago, K. Baksi, D. Banerjee</i>	
Exploring Metal-Driven Stereoselectivity of Glycopeptides by Free-Energy Calculations	1919
<i>A. Pietropaolo</i>	
Why are the Low-Energy Protein Normal Modes Evolutionarily Conserved?	1931
<i>J. Echave</i>	
IUPAC/CITAC Guide: Investigating Out-of-Specification Test Results of Chemical Composition based on Metrological Concepts (IUPAC Technical Report)	1939
<i>I. Kuselman, F. Penmecchi, C. Burns, A. Fajgelj, P. Zorzi</i>	
Author Index	