

Contents

Foreword

Note from the Editors

Phytonutrients - The Natural Drugs of the Future	1
<i>Tracy Gibbs</i>	
Research on the Supercritical CO ₂ Extraction of Xinyang MaoJian Tea	27
<i>Liu Zhongdong, Yang Jing, Liu Peng, Chen Zhaotan and Meng Qinghua</i>	
Applications of RNAi Technology	35
<i>Daina Lim, George W Yip and Boon-Huat Bay</i>	
Enhancing Bioactive Molecules in Medicinal Plants	45
<i>M Z Abdin</i>	
Biotransformation of Taxanes from Cell Cultures of <i>Taxus</i> sp	58
<i>Jungui Dai, Dean Guo, Masayoshi Ando and Lin Yang</i>	
Biotransformation of Terpenes and Steroids by Fungi	71
<i>Paul B Reese</i>	
Rapid Analysis of Triterpenoid Saponins in Plant Extract Using ESI-MS ⁿ and LC-MS ⁿ	77
<i>Bin Li, Zeper Abliz, Meijun Tang, Guangmiao Fu and Shishan Yu</i>	
HPLC-MS Analysis of Phenolic Constituents of <i>Phyllanthus Amarus</i>	81
<i>Guangying Chen, Guoyuan Zhu, Guoying Li and Wangfun Fong</i>	
Structure Elucidation of Norditerpene Alkaloids from Ranunculaceae Species	85
<i>Peter Forgo, Katalin E Kövér and Judit Hohmann</i>	
Quantitative Detection of Isoflavones in the Extract of Red Clover by HPLC/ESI-MS	101
<i>Zhang Guifeng, Liu Tao and Su Zhiguo</i>	

Measurement of Bioactive Constituents in Traditional Chinese Medicines by CE with Electrochemical Detection	109
<i>Gang Chen and Xiaohong Chen</i>	
Chemical Constituents of <i>Aegiceras corniculatum</i>	127
<i>Zhang Daojing, Zhang Si, Wu Jun and Yang Jin</i>	
Norditerpenoids from the Soft Coral <i>Nephthea chabroli</i>	134
<i>Wei-Han Zhang, Kevin Pan and Chun-Tao Che</i>	
The Metabolites of the Mangrove Fungus <i>Xylaria</i> sp (2508)	142
<i>Zhi-gang She, Yong-cheng Lin, Zhi-yong Guo, Xiong-yu Wu and Yan Huang</i>	
Phytochemical Evaluation of Polyherbal Formulations Using HPTLC	149
<i>Milind S Bagul and M Rajani</i>	
Application of Chromatographic Fingerprint to Quality Control for <i>Clematis chinensis</i>	177
<i>Zhi Zeng and Jiuwei Teng</i>	
The Bioactive Pigments from Marine Bacteria <i>Pseudomonas</i> sp	188
<i>Hou-Jin Li, Wen-Jian Lan, Chuang-Hua Cai, Yi-Pin Zhou and Yong-Cheng Lin</i>	
Bioactive Natural Products from Marine Sponges	195
<i>Shixiang Bao, Biwen Wu and Huiqin Huang</i>	
Anti-Inflammatory and Neurotrophic Alkaloids from Higher Plants and Fungi	206
<i>Matthias Hamburger</i>	
Effects of Bovine Kidney Heparan Sulphate and Shark Cartilage Chondroitin-6-Sulphate on Palatal Fibroblast Activities	223
<i>George W Yip, Xiao-Hui Zou, Weng-Chiong Foong, Tong Cao, Boon-Huat Bay and Hong-Wei Ouyang</i>	
Inhibition of Aflatoxin Biosynthesis in <i>Aspergillus Flavus</i> by Phenolic Natural Products	231
<i>Russell J Molyneux, Noreen Mahoney, Jong H Kim and Bruce C Campbell</i>	

Effects of the Cultured *Cordyceps* Exopolysaccharide Fraction (Epsf) on Some Parameters of Mouse Immune Function
In Vivo and *In Vitro* 252
Wei-yun Zhang, Jin-yu Yang, Jia-ping Chen, Pei-hua Shi and Li-jun Ling

Lactobacillus rhamnosus Induces Differential Anti-proliferative Responses and Interleukin-6 Expression Levels in SV-40 and Malignant Uroepithelial Cells 259
Ying-Jing Yong, Ratha Mahendran, Yuan-Kun Lee and Boon-Huat Bay

Cruciferous Vegetables and Chemoprotection – A Role of ITC-Mediated Apoptosis 267
Peter Rose

Tanshinone I and Tanshinone IIA from *Salvia Miltiorrhiza* Inhibit Growth of K1735M2 Murine Melanoma Cells via Different Pathways 285
Zhenlong Wu, Ying Yang, Ruolin Yang, Guoliang Xia, Liping Xie and Rongqing Zhang

New Pesticidal Compounds from Limonoids 296
Trevor H Yee

Insecticidal Properties of *Anacardium Occidentale* L. 312
Shamima A Parveen, Masaru Hashimoto, Nurul Islam, Toshikatsu Okuno and M Khalequzzaman

Antibacterial Effect of Extracts from Persimmon Leaves 324
Li-Lian Ji, Qiang-Hua Zhang, Xu Gu and Meng Wang

Protective Effect of Crocin on Rat Heart Ischemia-Reperfusion Injury: Possible Mechanisms 335
Guang-Lin Xu and Zhu-Nan Gong

Protective Effects of *Herba Leonuri* in Ischemic Models 347
Xian Hu, Jian Chun Mao, Shan Hong Huang, Jian Sun, Ya Jun Wu, Wei Duan, Todd On and Yi Zhun Zhu

The Prophylactic Effects of Chinese Herbal Extract, 'Braintone®', on Stroked Wistar Rats	365
<i>Lishan Low, Wanhui Wong, Wei Duan, Shufeng Zhou, Vincent Chou and Yi Zhun Zhu</i>	
Therapeutic Applications of Ceylon Tea: Potential and Trends	377
<i>Tissa Amarakoon, Shang Hong Huang and Ranil De Silva</i>	
Effects of Green and Black Tea on Glucose Tolerance, Serum Insulin and Antioxidant Enzyme Levels in Streptozotocin- Induced Diabetes Rats	418
<i>Chua Yong Ruan Ray, Hsu A and Tan K H Benny</i>	
<i>St John's Wort: A Precious Gift from the Saints?</i>	428
<i>Ying-Hui Li, Hongyan Du, Boon-Huat Bay and Malini Olivo</i>	
From Medicine Man to Market: A Look at Natural Products and the Pharmaceutical Industries	439
<i>Ronald E Young and Anthony Clayton</i>	
Index of Contributors	452