

International Seminar on Natural Product Medicines

(ISNPM 2012)

Procedia Chemistry Volume 13

**Bandung, Indonesia
22-23 November 2012**

Editors:

Nguyen Minh Duc

Elfahmi

Komar Ruslan Wirasutisna,

Sukrasno

Rika Hartati

Hegar Pramastya

Asep Gana Suganda

Ikuro Abe

Maike Petersen

Insanu

Elin Julianti

Neng Fisher

ISBN: 978-1-63439-949-4

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© by Elsevier B.V.
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact Elsevier B.V.
at the address below.

Elsevier B.V.
Radarweg 29
Amsterdam 1043 NX
The Netherlands

Phone: +31 20 485 3911
Fax: +31 20 485 2457

<http://www.elsevierpublishingsolutions.com/contact.asp>

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

Editorial: Current Issues on Future Researches and Applications of Natural Product Medicines	1
<i>Elfahmi</i>	
Development of Palladium-catalyzed Cycloalkenylation and its Application to Bioactive Natural Product Synthesis	3
<i>Masahiro Toyora</i>	
<i>Boesenbergia pandurata</i> Roxb., An Indonesian Medicinal Plant: Phytochemistry, Biological Activity, Plant Biotechnology	13
<i>Agus Chahyadi, Rika Hartati, Komar Ruslan Wirasutisna, Elfahmi</i>	
Biotransformation of Protoberberine Alkaloids by the Endophytic Fungus <i>Coelomyces AFKR-3</i> Isolated from Yellow Moonseed Plant (<i>Archangelisia flava</i> (L.) Merr.)	38
<i>Andria Agusta, Dewi Wulansari, Praptiwi, Arif Nurkanto, Ahmad Fathoni</i>	
Recent Study of Turmeric in Combination with Garlic as Antidiabetic Agent	44
<i>Elin Yulinah Sukandar, Primal Sudjana, I. Ketut Adnyana, Ame Suciati Setiawan, Umi Yuniarni</i>	
Changes in Secondary Metabolite Contents Following Crude Drug Preparation	57
<i>Sukrasno</i>	
Molecular Docking Studies of Chemical Constituents of <i>Tinospora cordifolia</i> on Glycogen Phosphorylase	63
<i>Rina Herowati, Gunawan Pamudji Widodo</i>	
Assessing Heterologous Expression of Hyoscyamine 6β-Hydroxylase – A Feasibility Study	69
<i>Nils J.H. Averesch, O. Kayser</i>	
Cytotoxic Activities of Fractions and Two Isolated Compounds from Sirih Merah (Indonesian red betel), <i>Piper crocatum</i> Ruiz & Pav.	79
<i>E. Emrizal, Arnon Fernando, Riska Yuliandari, Kamal Rullah, Nola Riska Indrayani, Adriani Susanty, Reni Yerti, Farediah Ahmad, Hasnah M. Sirat, Dayar Arbain</i>	
Effect of Terbinafin and DMSO on The Gene Expression Level of Squalene Synthase (Sqs) and Amorpha-4,11-Diene Synthase (Ads) in <i>Artemisia Annuua</i> L	85
<i>Elfahmi, Luthfia Nurhalim, Tati Kristanti, Agus Chahyadi, Sony Suhandono</i>	
Encapsulation of Risperidone into Chitosan-based Nanocarrier via Ionic Binding Interaction	92
<i>Diky Mudhakhir, Caroline Wibisono, Heni Rachmawati</i>	
In vivo Antimalarial Activity of <i>Andrographis paniculata</i> Tablets	101
<i>Aty Widyawaruyanti, Muhammad Asrory, Wiwied Ekasari, Dwi Setiawan, Achmad Radjaram, Lidya Tumewu, Achmad Fuad Hafid</i>	
Development of Immunonutrient from Pumpkin (<i>Cucurbita moschata</i> Duchense Ex. Lamk.) Seed	105
<i>Maria Immaculata Iwo, Muhamad Insanu, Caryn Anne Santhana Dass</i>	
Analysis of Secondary Metabolite Production in Somatic Embryo of Pasak Bumi (<i>Eurycoma Longifolia</i> Jack.)	112
<i>Iriawati, Andira Rahmawati, Rizkita R. Esyanti</i>	
Influence of β-Cyclodextrin on Cefixime Stability in Liquid Suspension Dosage Form	119
<i>Jessie Sofia Pamudji, Rachmat Mauludin, Nurhabibah</i>	
Effect of Steeped Black Tea (<i>Camellia sinensis</i> (L.) var. <i>assamica</i>) on Immunoglobulin Titer and Lymphocyte Proliferation in Responses to Hepatitis B Vaccine in Mice	128
<i>Jason Merari Peranginangin, Opstaria Saptarini, Erly Ismawati, Riszal Aan Wihardy, Rizky Fadly</i>	
The Potential of Dewa Leaves (<i>Gynura pseudochina</i> (L) D.C) and Temu Ireng Rhizomes (<i>Curcuma aeruginosa</i> Roxb.) as Medicinal Herbs for Dengue Fever Treatment	134
<i>W. Moelyono Moektiwardoyo, Ami Tjitraresmi, Yasmiwar Susilawati, Yoppi Iskandar, Eli Halimah, Dian Zahryanti</i>	
Vasodilator Effect of Ethanolic Extract of Mulberry Leaves (<i>Morus alba</i> L.) in Rat and Rabbit	142
<i>Neng Fisheri Kurniati, Gilang Putri Suryani, Joseph Iskendarso Sigit</i>	
Analgetic Activity of Papaya (<i>Carica papaya</i> L.) Leaves Extract	147
<i>P. Hasimun, Suwendar, G.I. Ernasari</i>	
Botanical, Phytochemical and Pharmacological Properties of <i>Hedychium</i> (Zingiberaceae) – A Review	150
<i>Rika Hartati, Asep Gana Suganda, Irda Fidrianny</i>	
Activity of Several Plant Extracts Against Drug-sensitive and Drug-resistant Microbes	164
<i>Afrillia Nuryanti Garmana, Elin Yulinah Sukandar, Irda Fidrianny</i>	
Characterization of Peroxidase Enzyme from Water Spinach (<i>Ipomoea aquatica</i> Forssk.) Fraction	170
<i>Bertha Rusdi, Dina Mulyanti, Millatur Rodiyah</i>	

The Effect of Coconut Water (<i>Cocos nucifera</i> L.) and an Isotonic Drink on the Change of Heart Rate Frequency in the Rats Induced Hypertension	177
<i>Rini Syafriani, Elin Yulinah Sukandar, Tommy Apriantono, Joseph Iskendarso Sigit</i>	
In-Vitro Anthelmintic Effect of Ethanol Extract of Black Seeds (<i>Nigella sativa</i>) Against <i>Ascaris suum</i>	181
<i>Diah Malenti Simalango, Novi Vicaayani Utami</i>	
Evaluation of Ethanolic Extracts of Mullaca (<i>Physalis angulata</i> L.) Herbs for Treatment of Lupus Disease in Mice Induced Pristane	186
<i>I. Ketut Adnyana, Elin Yulinah, Novita Maeistuti, Finna Setiawan</i>	
Effect A Glycosidic Flavonol Isolated from Green Grass Jelly (<i>Cyclea barbata</i> Miers) Leaves	194
<i>Siti Kusmardiyani, Muhammad Insanu, Ma'sum Al Asyhar</i>	
Antioxidant Properties of <i>Garcinia mangostana</i> L (Mangosteen) Rind	198
<i>Susy Tjahjani, Wahyu Widowati, Khie Khiong, Adrian Suhendra, Rita Tjokropranoto</i>	
Sub-chronic Toxicity of <i>Ficus Benjamina</i> L. Leaves Ethanol Extract on the Liver Function of White Mice	204
<i>Syilfia Hasti, Enda Mora, Rahayu Utami, Lisni Ukrina Yulis</i>	
Antibacterial and Antioxidant Activity of Keladi Tikus Leaves Extract (<i>Typhonium flagelliforme</i>) (Lodd) Blume	209
<i>Yunahara Farida, Kurnia Irpan, Lia Fithriani</i>	
Determination of Total Tannin of White and Red Rind Pomegranate (<i>Punica granatum</i> L.) by Colorimetry Method Using Reagent 1, 10 Phenantroline	214
<i>Mira Andam Dewi, Julia Ratnawati, Ratih Widya Purwasih</i>	
Anti-inflammatory Activity of <i>Calophyllum inophyllum</i> Fruits Extracts	218
<i>Muhamad Bin Zakaria, Vijayasekaran, Zul Ilham, Nur Airina Muhamad</i>	
Recent Studies on Phytochemicals and Pharmacological Effects of <i>Eleutherine americana</i> Merr.	221
<i>Muhamad Insanu, Siti Kusmardiyani, Rika Hartati</i>	
Author Index	