

98350-0-3

PROCEEDINGS OF INTERNATIONAL SYMPOSIUM on BIOMEDICINES

18th and 19th September 2003

Theme :

**Biodiversity on Traditional
Biomedicines for Human
Health and Welfare**



**Biopharmaca Research Center
Bogor Agricultural University
Bogor - Indonesia**

CONTENTS

	Page
REPORT OF THE ORGANIZING COMMITTEE	i
REMARK FROM RECTOR OF BOGOR AGRICULTURAL UNIVERSITY	ii
CONTENTS	vii
KEYNOTE LECTURE AND PLENARY LECTURE	
The Role of Marine Biotechnology in The Development of Marine Biomedical Product <i>Prof. Dr. Rokhmin Dahuri</i>	1
Speech by The Head National Agency of Drug and Food Control at International Symposium on Biomedicines <i>H. Sampurno</i>	6
Induction of Apoptosis by Acetoxyscirpenol from <i>Paecilomyces tenuipes</i> in Lymphocyte <i>Prof. Ha Won Kim</i>	13
Soy/Soy Isoflavone for Post Menopausal Hormone Replacement Therapy <i>Prof. Dr. Koudy Williams & Thomas B. Clarkson. Presented by Prof. Dondin Sajuthi, PhD</i>	29
The Role of GP Jamu on the Utilization and Development Based on The Results for Traditional Biomedicine Research <i>Dr. Charles Saerang</i>	36
Effect of Tea Polyphenol on Voltage-Gated (Kv) Potassium Channels Expressed in <i>Xenopus</i> Oocytes <i>Prof. Dong-Hee Lee & Prof. Ha-Won Kim</i>	42
Application of Electrochemical methods on Biosensor <i>Dr. Dyah Iswantini & Prof. Tokuji Ikeda</i>	58
ORAL PRESENTATION	
Radical Scavenging Capacity Against 1-Diphenyl-2-Picryl Hydrazyl (DPPH) – Some Indonesian Medicinal Plants <i>Tri Windono Budiono R², Sumijani R² and Kusuma D²</i>	63
Antioxidant Properties of Indonesian Mangosteen (<i>Garcinia mangostana</i> L.) <i>A Herry Cahyana, Yuni Harina, Ha Won Kim, Young H. Kim</i>	71

Screening of Antidiabetic Activity of Several Ethanolic Extracts of Medicinal Plants <i>Armenia, L. Oktavia, and Rusdi</i>	76
Determination of Bioactive Chemical Constituents of <i>Apium Graviolens</i> Leaves as Antihyperuricemia <i>Pramono S, Puspitasari I, Tohariyati, Titis K P, Umi H, Witasari HA, Kintoko, Galih M A</i>	85
Effect of Sidaguri Extracts as an Uric Acid Lowering Agent on the Activity of Xanthine Oxidase Enzyme <i>Dyah Iswantini & Latifah Darusman</i>	89
Screening of Antibacterial Activities in Red, Green, and Brown Seaweed <i>Jana Tjahjana Anggadiredja</i>	94
Effect of <i>Sargassum siliquosum</i> Extract on the Expression of P53 and Estrogen Receptor on Breast Cancer Cell Line T45D and MCF7 <i>Marselina Irasonia Tan, Amillia Siddiq, Tri Handayani, Ayda Trishawaty Yusuf, Anggraini Barlian and Satomi Haga</i>	114
Isolation of Active Fraction of <i>Kaempferia pandurata</i> Extract by <i>Artemia salina</i> Leach as Bioindicator <i>Hernani, May Sukmasari and Eni Hayani</i>	123
Two New Isoprenylated 2-arylbenzofurans, artioindonesianins X and Y from <i>Artocarpus fretessi</i> Hassk. <i>Nunuk Hariani Soekamto, Sjamsui A. Achmad*, Emilio L. Ghisalberti**, Euis H. Hakim* and Yana M. Syah</i>	130
Isolation and Structure Elucidations, Dulxanthone E, F, and G from n-Hexane Extract of <i>Garcinia porrecta</i> Bark <i>Sherly, Soleh Kosela², L. B. S. Kardono², M. Hanafi², and Leslie J. Harrison</i>	138
Yield, Quality and Genetic Evaluation of Indonesian Gingers <i>N. Bermawie, S.F Syahid, Nur Ajijah and Sri Wahyuni</i>	145
Improvement Phosphate Use Efficiency on East Indian Galangae Production <i>M Yusron & M Januati</i>	156
Bacterial Wilt Disease on Indian Galanga: Disease Problem and Its Solution <i>Supriadi, Oti Rostiana, Rosita SMD, and E.M. Adhi</i>	164
Leaf Blotch Disease of <i>Aphelenchoides</i> sp on Sambiloto and It's Possible	

Control <i>Retno Djiwanti & Supriadi</i>	169
Antibacterial Activity of Actinomyces Isolated from Mangrove Area <i>Yulin Lestari</i>	175
POSTER PRESENTATION	
Antibacterial Activity of Tea Tree Oil in Gel Preparation Against <i>Corynebacterium acnes</i> <i>Idajani Hadinoto, Dien A Limyati, Vonny Chandra Dewi</i>	180
Bioautography Antibacterial Activity Test of Volatile Oil Component of Deringo Rhizomes against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> <i>Sri Banarti & Martha Ervina</i>	185
Prospect of Seeds of Kolowe (<i>Chydenanthus excelsus</i>) as Source of Saponins Bactericide <i>Laode Rijai, Ratu Safitri, Henny Hilmy</i>	190
Ethnobotanical and Preliminary Pharmaceutical Study Tabat Barito <i>Hesty Heryani, E Gumbira Said, Latifah KD, Agung PM, Erliza Noor, Zainal Alim M.</i>	197
Fractionation of Yam Bean Seeds Extract For Antibacterial Activity <i>Tuti Setiawati S., Deden Saprudin, Juju Juariah</i>	203
Screening of Some Indonesian Medicinal Plants for Antioxidant Activity Using DPPH Scavenging Effect <i>Ranti AS, Junardy FD., Suryaningsih, Gusrizal, Utama</i>	208
Artemisinin and Its Anticancer Activity of Hairy Root and Transgenic Callus of <i>Artemisia cina</i> <i>Aryanti, Ermayanti, M Bintang, & I Mariska</i>	215
Inhibitory Effects of Tea Constituents on Cancer Cell Invasion <i>Hendig Winarno, Kazuyoshi Ohasi, Matsuko Mukai, Partomuan Simanjuntak, and Hirotaka Shibuya</i>	221
Antioxidant Potency of the Bunaken Marine Park Sponge <i>Aaptos</i> sp <i>Wilson Ar Rombang, Raymond J Rumampuk, Ratu Safitri and Ponis Tarigan</i>	231
Studi of an Indonesian Mistletoe, the <i>Dendrophthoe pentandra</i> Grown on Star Fruit and Mango as Host Trees <i>Nina Artanti, Ratih Seksiati, Arief Fahtrhur Rohman, Djamilah, Puspa, M Hanafi, L B S Kardono</i>	235

Identification and Antioxidant Test of Acetone Fraction of <i>Garcinia picrorrhizai</i> and <i>G rigida</i> Leaves <i>M Hanafi, Soleh Kosela, Atiek Soemiati, Berna Elya, VD Irmawati, and D Nurwidyosari</i>	244
Sub chronic Toxicity of <i>Curcuma aeruginosa</i> Rhizome Extract <i>Sri Gunarti, Sri Banarti, Maria Goretti A</i>	252
The Action of Temu Hitam Rhizomes Extract on Alloxan Diabetic Rats <i>Nelly C Soegiarso & Angelica Krisnamurti</i>	263
Analysis of Volatile Active Compounds of Essential Oils of Some Aromatic Plants Possessing Inhibitory Properties on Mice Locomotor Activity <i>Muctaridi, Anton A., Anas S & S Budijanto</i>	270
The Effect of <i>Acalypha indica</i> to <i>Eimeria tenella</i> Oocysts, Schizonts, Macrogametes and Microgametes Counts in The Caecum Tissue of Chicken <i>Umi Cahyaningsih , & Belladona</i>	288
The Effect of Golden Candel to The Number of Parasite of Angle Fish <i>Yanuarso Eddy H, Erma N, Esi L., Dwi L., & Nurhaida H L.</i>	291
The Chemistry of Four Zingiberaceae Essential Oil <i>Hernani</i>	298
Characterization of Protease from The Eartworm Extract <i>Yanti, Maggy T S., Tami I., & Dondin Sajuthi</i>	305
An Extensive High Field NMR Study on Triterpene Sapogenin, Camelliagenin A from The Seed of <i>Barringtonia asiatica</i> <i>Raymond J Rumampuk, Emma J P., Ponis T., Anthoni J H, & Lewis N Mander</i>	314
The Effect of Red Ginger Oil and Big Ginger Oils on Mortality of <i>Carpophilus sp</i> <i>Tri L Mardiningsih, A Sachrudin & Sri Yuliani</i>	321
Preliminary Observation of Leaf-Damaging Pests on 12 Promising Lines of Patchouli Plants <i>Bariyah Barimbing. T L Mardiningsih & Hobir</i>	327
Effect of Seed Treatment on Supressing Ginger Scale Insect <i>Rodiah Balfas & S Retno Djiwanti</i>	334
The Effect of Traditional Herbs Medicine "Galohgor" on Uterus Involution and Milk Production of Rats (<i>Rattus Sp.</i>) <i>Katrin Roosita, Clara M. Kusharto , Nastiti Kusumorini , Wasmen Manalu .</i>	338

Quality Control of Physicochemistry Parameter of Oil and Eugenol Isolated from Flos and Leaves of <i>Eugenia caryphyllata</i> Thunb in Toli-toli, Central if Sulawesi	
<i>Endang D., Sadria, R Wahyuningyas, C Anwar</i>	341
The Formulation of Granules Effervescent Tea	
<i>Teguh Widodo, Lucia Hendriati, Arief Wijayanto</i>	346
Inventory and Conservation of Medicinal Plants	349
<i>N. Bermawie, S. Fatimah Syahid, N Nova Kristina</i>	