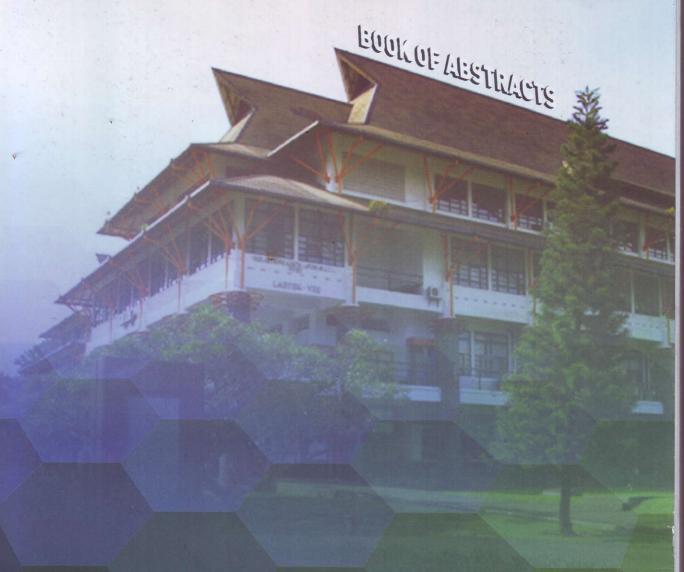


THE 6TH INTERNATIONAL CONFERENCE ON MATHEMATICS AND NATURAL SCIENCES

ON THE ROAD TOWARDS SUSTAINABLE DEVELOPMENT



2-3 **NOVEMBER** 2016

INSTITUT TEKNOLOGI BANDUNG BANDUNG, INDONESIA

100 YEARS (1920-2020)

ITB AND HIGHER EDUCATION IN INDONESIA

ORGANIZED BY:

FACULTY OF MATHEMATICS AND NATURAL SCIENCES SCHOOL OF LIFE SCIENCES AND TECHNOLOGY SCHOOL OF PHARMACY

INVITED SPEAKER Wednesday, 2 November 2016

Cod	e Place	Time	Invited Co
1			Invited Speakers
1	- Parties	15:15- 15:45	Veinardi Suendo
INV-(01 WH		Institut Teknologi Bandung, Indonesia
	Sections		"Local Structure Investigation of tetraphenylporphyrin:
			intro calculations of its dimer and
		15:15- 15:45	spectroscopic approaches"
INV-0	2 5114		Lucky Puspitarini
11110	2 EH1		Institut Teknologi Bandung, Indonesia
	The same		Extracting Diffuse Interstellar Bands from
- Who	e harried		Cool Star Spectra"
INV-03	B EH2	15:15- 15:45	Marlia Singgih
			Institut Teknologi Bandung, Indonesia
			Role of Monascus and Neurospania Di
			Wetabolites as Active Ingredients and Excipionts"
INV-04		15:15-	T Wade Agus Gelgel Wirasuta
	EH2	15:15-	Universitas IIdayana Indanasi
			riel bal ringerprint for authentication and
10:			an Increasing Indonesian Herbal Medicine tandardization"
INV-05	EH3	15:15- 15:45	Guntur Fibriansvah
			Duke-NUS Medical School, Singapore
			"The Development of Therapeutic Antibodies
			against Dengue"
INV-06	EH4	15.45	Tirto Prakoso Brodionegoro
		15:15- 15:45	Institut Teknologi Bandung Indonesia
			"Hydrothermal Carbonization of Seaweed
			for Biochar Production"
INV-07	EH5	15:15-	Yogi Ahmad Erlangga
		15:45	Nazarbayey University, Karalla
			"Multilevel Krylov Methods: Analysis and Applications"
INV-08			Nandang Mufti
	CC	15:15- 15:45	Universitas Negeri Malana I. I.
			. directoridization of Magnetite Dhat
			as Wastewater Treatment and Renewable Energy Materials"
NV-09	RFMIPA	15:15- 15:45	Acep Purgon
			Institut Teknologi Parad
			Institut Teknologi Bandung, Indonesia "Urban Physics and Its Implementation
			"Urban Physics and Its Implementation in Predicting Economic Growth Related to High Speed To June 1988
	BSCA1		"" " " " " " " " " " " " " " " " " " "
IV-10		15:15-	Alexander A. Iskandar
		15:45	Institut Teknologi Bandung, Indonesia "Nano Plasmonics for Optical Sensing"

[INV-04]

Herbal Fingerprint for Authentication and Quantification: an Increasing Indonesian Herbal Medicine Standardization

I Made Agus Gelgel Wirasuta

Universitas Udayana, Indonesia

Abstract

The global market of herbal medicines has increased 7% annually. Their total market in 2008 was 200 million USD and it will increase to 50 billion USD in 2050. The WHO recommend an implementation the phytochemicals fingerprint to ensure and standardize the herbal remedies. The chemical content of herbal medicine is influenced by several factors, such as: species-varieties, cultivation, geography and climate of a place to grow, harvest, post-harvest processing methods, and production processing. The Good Agriculture and Collection Practices (GACP) guide to control the cultivation factors of medicinal plants. The current Good Manufacture Practices (cGMP) and good laboratory practices (GLP) govern to ensure the repeatability of the efficacy of the herbal medicine product. The spectrophotometric instrument, such as raman, FTIR; the chromatographic method implements to provide the phytochemical fingerprint. This method identifies and measure the bio- or chemical -marker. The biomarker is the chemical constituents, which were detected and identified while the pre and clinical trial. The biomarker represents the claimed substance, which responsible to their pharmacological effect. Many traditional herbal medicine based on the empirical experiment, so there is no scientific information of their biomarker. In this case the phytochemical chromatographic fingerprint could be used as a tool to control the substances. Providing the fingerprint of the JAMU herbal medicine will increase their quality and potency to compete in the global herbal medicine market.

The De

Dengue virus (pathogens tran DENV annuall However, no fu DENV consists causes disease fever/dengue sl the homologou cross-reactive a the virus, which dependent enha hemorrhagic fe serotypes, som human and n therapeutics. S they recognize bind to single d involving DI o recognize virus change in morp change its struc more effective show disease-e overcome by n receptor on cel DENV and the development o

CERTIFICATE

FACULTY OF MATHEMATICS AND NATURAL SCIENCES SCHOOL OF LIFE SCIENCES AND TECHNOLOGY SCHOOL OF PHARMACY

Bandung, 2-3 November 2016



HE 6TH INTERNATIONAL CONFERENCE ON MATHEMATICS AND NATURAL SCIENCES

ON THE ROAD TOWARDS SUSTAINABLE DEVELOPMENT

This is to certify that

Dr.rer.nat. I Made Agus Gelgel W., M.Si. Apt.

has participated in the 6th International Conference On Mathematics and Natural Sciences

Invited Speaker



Chairperson ICMNS 2016

Dr. Dessy Natalia



Dr. Nyoman Pugeg Aryantha

Dean School of Life Sciences Institut Teknologi Bandung and Technology



Prof. Dr. Daryono H. Tjahjono Apt

Dean School of Pharmacy Institut Teknologi Bandung



INSTITUT TEKNOLOGI BANDUNG

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

Jalan Ganesha 10 Bandung 40132, Telp: +6222 2515032, Fax +6222 2502360, e-mail: dekan@fmipa.itb.ac.id

Nr.: 4861/I1.C01/LL/2016

7 October 2016

Ref.: Invitation of the 6th International Conference on

Mathematics and Natural Sciences (ICMNS)

Prof. Dr. I Made Agus Gelgel Wirasuta Universitas Udayana Bali Indonesia

Dear Prof. Dr. I Made Agus Gelgel Wirasuta,

We would kindly like to invite you to the 6th ICMNS which will be held on Nov 2-3 2016 at Institut Teknologi Bandung, Bandung, Indonesia. This conference aims to disseminate recent research results in the field of sciences and mathematics and to promote multi- and inter-disciplinary researches in sciences and their applications. We would be very honoured it you could come and share your frontier knowledge and experience in the 6th ICMNS. We believe that your contribution to this field is very beneficial for inspiring scientists and triggering the advancement of science, and in turn for future sustainable development of humanity.

We are very happy to cover expenses associated with transportation, and accommodation (2 nights on 1-3 November 2016).

We are very honoured if you could accept invitation to join us for this event. On behalf of the Faculty of Mathematics and Natural Sciences and the Organizing Committee, we are looking forward to meeting you in Bandung.

Profiledy Tri Baskoro

TEKNOLOG

Profiledy Tri Baskoro

Dean of Faculty of Mathematics and Natural Sciences

Profiledy Tri Baskoro

Dean of Faculty of Mathematics and Natural Sciences

Profiledy Tri Baskoro

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by Gelgel Wirasuta

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I Made Agus Gelgel Wirasuta

Pharmacy Department, Faculty of Mathematic and Natural Sciences - Udayana University

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STUDENT PAPERS

PRIMARY SOURCES



Wirasuta, I Made Agus Gelgel, Ni Made Amelia Ratnata Dewi, Kadek Duwi Cahyadi, Luh Putu Mirah Kusuma Dewi, Ni Made Widi Astuti, and I Nyoman Kadjeng Widjaja. "Studying Systematic Errors on Estimation Decision, Detection, and Quantification Limit on Micro-TLC", Chromatographia, 2013.

Publication

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by Gelgel Wirasuta

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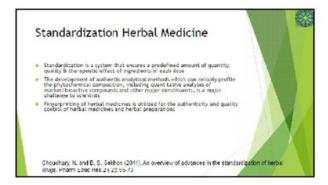
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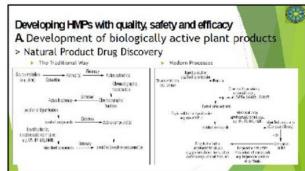




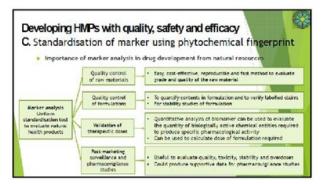
OUTLINE 1. HMPs Trends 2. Standardization Herbal Medicine 3. Developing HMPs with quality, safety and efficacy 4. TLC/HPTLC Herbal medicine standardization 5. Finger Print HPTLC - Standardization Indonesian Herbal Medicine













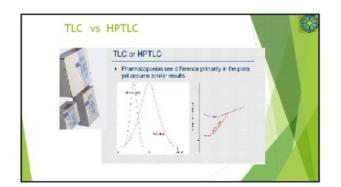




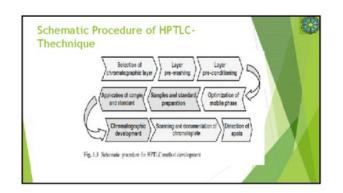


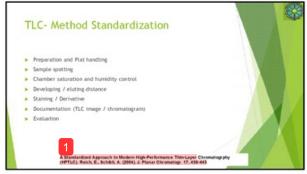


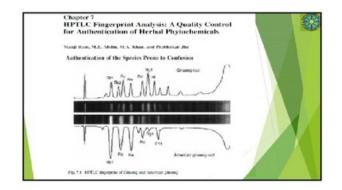




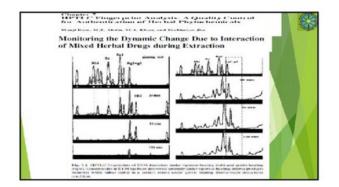


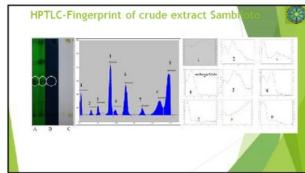




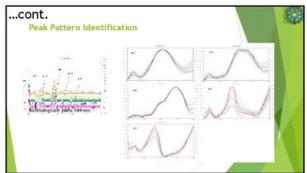






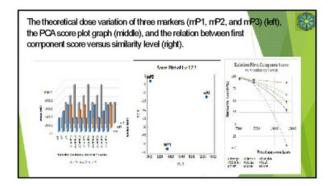




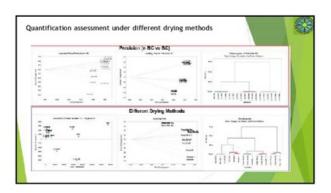












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