

Certificate

2ndISEJ
International
Seminar
and Expo
on Jamu



Presented To:

Alfi Khatib

For his/her participation as "Invited Speaker" in
2nd International Seminar and Expo on Jamu

With theme:

The Challenge of Natural Medicines for Health and Beauty in 21st Century

Which has been held in Grha Sanusi Hardjadinata
Universitas Padjadjaran - Bandung on September 26th - 27th 2017

Prof. Dr. Ajeng Diantini, M.S., Apt.

Dean of The Faculty of Pharmacy UNPAD



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Dr. Yasmiwar Susilawati, M.Si., Apt.

Chairperson of 2nd ISEJ 2017

According to SKP IAI Decree No : 207/SK.SK/PP.IAI/III/2017

4,5 SKP Speaker ; 1,5 SKP Moderator ; 3 SKP Committee ; 16 SKP Participant ; 5 SKP Oral/Poster Presenter



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**The Challenge of Natural Medicine
for Health and Beauty in 21st Century**

ABSTRACT BOOK

Faculty of Pharmacy, Universitas Padjadjaran

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Wednesday, 27th September 2017

Time	Schedule
08.00 - 08.45	Chairperson: Prof. Dr. Ahmad Muhtadi, MS., Apt Keynote Speaker V Dra. Maura Linda Sitanggang [Head of Directorate General of Pharmaceuticals and Medical Devices, Ministry of Health RI]
08.45 - 09.30	Chairperson: Prof. Dr. Unang Supratman Keynote Speaker VI Prof. Dr. Lindsay Brown [USQ, Australia]
09.30 - 10.00	Coffee Break, Poster Session and Expo Visit
10.00- 10.45	Chairperson: Rizky Abdulah, Ph.D., Apt Keynote Speaker VII Prof. Yoshihito Shiono [Yamagata University, Japan]
10.45 – 11.15	Chairperson: Dr. Med.Sc. Melisa Intan Barliana, Apt Keynote Speaker VIII Prof. Dr. Sanjay Jachak [NIPER India]
11.15 – 11.35	Sponsorship Presentation (PT. Buchi)
11.35 – 12.30	Lunch Break, Poster Session and Expo Visit

Time	Schedule
	Split into two rooms
12.30 - 13.30	Plenary Session II Room 1 (Grha Sanusi) : Chairperson: Mutakin, M.Si., Ph.D., Apt Assoc . Prof. Nornisah Mohamed [USM, Malaysia] Dr. dr. Arifa Mustika [UNAIR, Indonesia] Room 2 (Bale Rumawat) : Chairperson: Dr. Tiana Milanda, M.Si., Apt Dr. Lucie Widowati [B2P2TOOT, Indonesia] Dr. rer.nat Chaidir [BPPT, Indonesia]
13.30 - 14.30	Chairperson: Dr. Ida Musfiroh, M.Si., Apt Plenary Session III Prof. Dr. Moelyono, MW [UNPAD, Indonesia] Dr. Alfi Khatib [IIUM, Malaysia]
14.30 – 15.00	Coffee break
15.00 – 16.45	Paralel Session
16.45 – 17.00	Closing Ceremony

METABOLOMICS: A NEW TOOL IN HERBAL STANDARDIZATION AND BIOACTIVITY ASSESSMENT

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ABSTRACT

Medicinal herbs have reached extensive acceptability as therapeutic agents for several diseases. However, the use of medicinal herbs is limited due to the issue on quality and safety assurance, as well as lack of scientific proof. Standardization is an important aspect for maintaining and assessing the quality and safety of medicinal herb. It includes raw plant authentication, microscopic and molecular examination, and identification of chemical composition. The challenge of natural chemists is to identify as much as possible the bioactive compounds and to study their mode of action to treat the diseases. This work is not easy due to the complexity of the compounds and limitation of time and budget. A lead finding with bioassay guided fractionation developing into high throughput screening could not increase the number of potential natural products in the pipeline of the pharmaceutical companies. Therefore, a new approach amends the inclusion of system biology in pharmacognosy research by using metabolomics as a tool. Metabolomics is a comprehensive analysis of the whole metabolites in a sample. Identification of both chemical and bio-markers can be performed by the instrumental analysis of both natural sources and animal bio-fluids and multivariate data analysis. All advanced instrumentation such as nuclear magnetic resonance spectroscopy, liquid chromatography-mass spectrometry, and gas chromatography-mass spectrometry are used in metabolomics.