"Future Research and Technology on Herbal Medicine Application for Diabetes and Other Degenerative Disorder"

8-9th July 2021

PROGRAM BOOK & ABSTRACTS

International Seminar Traditional Herbal Medicine (ISTHM)
Indonesian Medicinal Plants

IDI IAI ISTHM 2021 POKJANAS KEMENTERIAN KESEHATAN REPUBLIK INDONESIA UNIVERSITAS LAMPUNG

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International Seminar Traditional Herbal Medicine (ISTHM)
Indonesian Medicinal Plants
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PROGRAM DAY 1

International Seminar Traditional Herbal Medicine ISTHM 2021
Indonesian Medicinal Plants

8th July 2021			
Time	Duration	Activity	PIC
07.30 am	60 mins	Registration	
08.30 am	10 mins	Opening ceremony: Lampung Welcome Dance	MC
08.40 am	10 mins	Indonesian National Anthem	
08.50 am	10 mins	Report by Chairman of 59th TOI Seminar	Chairman
09.00 am	10 mins	Welcome speech 1 from TOI (KaB2P2TOOT)	
09.10 am	10 mins	Welcome speech and Official opening by Rector of University of Lampung	
09.20 am	5 mins	Do'a/prayer	
09.25 am	10 mins	Closing Remark and Photo session	MC
Plenary Session 1			
09.35 am	95 mins	Main speaker 1: Director of Yankestrad Kemenkes RI Keynote speaker 1: Prof. Taifo Mahmud, Ph. D. (Oregon State University - USA) Keynote spekaer 2: Prof. Dr. MT. Kamaluddin, MSc. (FK - Unsri)	Prof. Suwijiyo Pramono
11.10 am	75 mins	Keynote speaker 3: Prof. Dr. dr. Asep Sukohar, M.Sc. (Ketua IDI Lampung) Keynote speaker 4: Prof. Dr. Keri Lestari Dandan, M.Si., Apt. (FK UNPAD) Keynote speaker 5: Prof. Dr. Ir. Yuli Widyastuti, MP (POKJANAS TOT)	Prof. Sutopo Hadi
LUNCH BREAK (12.30-13.30)			
13.30 pm	210 mins	Parallel Oral Presentation & Poster Session	

PROGRAM DAY 2

International Seminar Traditional Herbal Medicine ISTHM 2021
Indonesian Medicinal Plants

9th July 2021			
Time	Duration	Activity	PIC
07.30 am	30 mins	Registration	
08.00 am	10 mins	Opening session	MC
Plenary Session 2			
08.10 m	100 mins	Keynote speaker 6: Prof. Takuya Sugahara (Japan) Keynote speaker 7: Prof. Yaya Rukayadi (UPM) Keynote speaker 8: Prof. Nor Hadiani Ismail (UiTM)	DR. Samsu H. Nurdin, MSc.
09.50 am	5 mins	Photo session	
09.55 am	75 mins	Keynote speaker 9: Prof. Yana Maolana Syah, M.S., Ph.D. (FMIPA ITB) Keynote speaker 10: Dr. Masteria Yunovilsa Putra (LON LIPI) Keynote speaker 11: Prof. Suharso, PhD. (FMIPA Unila)	Dr. Subeki
11.20	5 min	Photo session	MC
11.25 am	25 mins	Exhibitions on Herbal Products	
LUNCH BREAK (12.30-13.30)			
13.30 pm	135 mins	Parallel Oral Presentation & Poster Session	
15.45 pm	15 min	Closing Ceremony	MC

PARALLEL SESSION Day 1

International Seminar Traditional Herbal Medicine ISTHM 2021 Indonesian Medicinal Plants

Seminar Parallel Schedule

July 8th, 2021

ROOM I: Traditional and Complementary Medicine
MODERATOR : Dr. Ir. *Yaktiworo* Indriani, M,Sc.

TIME	AUTHOR	TITLE
13.30 - 14.05	Rini Handayani	Sambiloto (*Andrographis paniculata* Nees.) Leaf Fermented Using *Aspergillus oryzae* and Antibiofilm Assay Against Gram-Negative Bacteria
	Atur Puja Gusti	Acute Toxicity Test of Bangle (*Zingiber montanum*) Rhizome Essential Oil with Brine Shrimp Lethality Test (BSLT) Method
	Fahrauk Faramayuda	Production of Sinensetin from Cell Suspension Cultures of *Orthosiphon aristatus* Blume Miq. Purple Varieties
14.05 - 14.40	Abdi Firdaus Masdianto	In Silico Study Potential of Activated Compounds Extract of *Annona Muricata* Linn Leaves as A Hypoglicemia Agent Through The Activation of Peroxisome Proliferator Activator Receptor γ (PPARγ) and Glycogen Synthase
	Muhammad Iqbal Sugiharto	The Potency Of The Soursop, (*Annona muricata* Linn.) Leaves Active Compounds To Wards The Inhibition Of α-Glucosidase and a-Amylase by In Silico
	Ibnu Hajar	Tanaman Obat Tradisional untuk Persalinan Masyarakat Melayu Siak Propinsi Riau
14.40 - 15.15	Apt. Drs. Kosasih MSc	Cytotoxic activity of Cantigi [*Vaccinium varingiae* folium (Blume) Miq.] leaf extracts on T47D cells in vitro
	Gres Maretta, S.Si., M.Si	Local Community Ethnomedicin of Lampung Tribe in Pesisir Selatan District, Pesisir Barat Regency
	Dr. Noviany, M.Si	Metabolomics Approach for Understanding the Correlation Between Antioxidant Activity and Its Secondary Metabolites from Different Part of *Sesbania grandiflora*

POSTER

TIME	AUTHOR	TITLE
15-30 - 16.25	Tanti Tatang Irianti	Formulation of Temu Kunci (*Boesenbergia pandurata* (Roxb.) Schlecht) Rhizome Extract Sunscreen, Inhibition Activity of Tyrosine Photodegradation and Its Total Phenolic Compounds
	Ela Amelia POSTER	The Combination of Sugar Palm Midrib Extract (*Arenga pinnata* Merr.) and Nutgrass Extract *(Cyperus rotundus* L.) As Gel Formulation to Inhibit the Acne Bacterias (Propionibacterium acnes and Staphylococcus epidermidis)
	Rahmatul Qodriah	In Vitro Antioxidant and Anticholesterol of Salam (*Syzygium Polyanthum* Wight.) Leaf Extract In 96% Ethanol And Water Using Spectrophotometry Method
	Tina Rostinawati (POSTER	Activity of ethanol extract of *Aegle marmelos* (buah Maja) to clinical isolate of Escherichia coli causing urinary tract infection

ROOM II: Exploration on Potential Herbal Medicine

MODERATOR: Rochmah Agustrina, Ph.D.

TIME	AUTHOR	TITLE
13.30 - 14.05	Abigail Nyoto	In-Vitro Inhibitory Activity Combination of *Moringa oleifera* Leaf Extract and Bacteriocin *Bifidobacterium longum* against Salmonella typhimurium
	Fransiska Thea Setyaratri	Potential Moringa Leaf Extract (*Moringa oleifera*) as Prebiotics to Support *Bifidobacterium longum* growth
	Shadila Fira Asoka	Red ginger (*Zingiber officinale* var. Rubrum): its essential oil content and potential as an anti-Propionibacterium acnes by molecular docking
14.05 - 14.40	Ika Fitriya	The Effect of giving Kepok Banana (*Musa Acuminata* X Balbisiana) on The Skin of Mice (*Mus musculus*) Exposed to Ultraviolet Light
	apt. Indri Kusuma Dewi, M.Sc.	Determination of the SPF value of the extract and fraction gel corncob (*Zea mays* L.)
	Weni Puspita	Formulation and Sunscreen Activity Test of Lotion From Ethanolic Extract of Buas-Buas Leaf (*Premna Serratifolia* L.)
14.40 - 15.15	Sri Eka Rahmadany	Determination of Chemical Compounds Content and SPF Value of Nutmeg Oil with Tween 80-Ethanol Variation
	Rizky Aditio Saputra	Antioxidant and Sunscreen Activity of Nutmeg Oil Microemulsion
	Misbahul Munir	Potential of Nutmeg Oil In Microemulsion as Sunscreen with Variation Tween 80-PEG 400
15.15 - 15.50	Jeany Audina Suryaningkunti	A Review of Pharmacological Activity of Seaweeds *Sargassum* sp. and *Eucheuma cottonii*
	Silviana Hasanuddin	Aktivitas penghambatan, Identifikasi Senyawa, dan Prediksi In silico Fraksi Daun Peterseli (*Petrocelinum crispum* Mill) Sebagai Agen Antijamur *Malassezia furfur*
	Indriaty	Assessment Cytotoxic assay of Rhizophoraceae Plants Mangrove using Brine Shrimp (*Artemia salina* L) model

POSTER

TIME	AUTHOR	TITLE
15-50 - 16.25	apt. Dra. Liliek Nurhidayati, M.Si. (POSTER)	The potency of sulfated polysaccharide from *Sargassum aquifolium* (Turner) C. Agardh as antiplatelet agen
	Nazliniwaty (POSTER)	The Effect of Hydroalcohol Extract of *Artocarpus lacucha* Buch.Ham and *Anredera cordifolia* (Ten) Steenis. Leaves on Porphyromonas gingivalis ATCC 33277
	apt. Reymon, S.Si.,M.Si (POSTER)	Antimicrobial Activity of Ethanolic Extract of *Meistera chinensis* Rhizome by TLC-Direct Bioautography Method against Pathogenic Microorganisms

ROOM III: Herbal Pharmacotherapy & Pharmacological Study

MODERATOR: Ramadhan Triyandi, S.Farm., M.Si., Apt.

TIME	AUTHOR	TITLE
13.30 - 14.05	Rifki Febriansah	Culture Optimization of Streptomyces sp. GMY01 Bacteria as Anticancer Agent by Chemometric Analysis
	Nikeherpianti Lolok	Isolasi Senyawa Aktif Antidiabetes Buah Mengkudu (Morinda Citrifolia Linn) dan Uji Mekanisme Secara In Silico
	Wa Ode Yuliastri	Aktivitas Imunomodulator dan identifikasi senyawa kimia Fraksi Bunga Rosela (of Hibiscus sabdariffa L.)
14.05 - 14.40	Erna Sulistyowati	In vivo evaluation of *Centella asiatica*, *Justicia gendarussa* and *Imperata cylindrica* decoction in attenuation of hypertension-induced renal damage
	Tina Rostinawati	Activity of ethanol extract of *Aegle marmelos* (buah Maja) to clinical isolate of Escherichia coli causing urinary tract infection
	Joni Tandi	Uji Potensi Nefropati Diabetik Daun Sisik Naga (*Pyrrosia piloselloides* (L.) M.G Price) Terhadap Tikus Putih Jantan (*Rattus norvegicus*) Diinduksi Streptozotocin
14.40 - 15.15	Tien Wahyu Handayani	Uji Potensi Nefropati Diabetik Kulit Buah Pepaya (*Carica papaya* L.) Pada Tikus Putih Jantan (Rattus norvegicus) yang Diinduksi Streptozotocin
	Poppy Firzani Arifin	Safety evaluation of herbal hepatoprotector based *Curcuma xanthorrhiza* in the rat: subchronic 90 days toxicity with hematological and liver blood biochemistry as parameter
	Arista Wahyu Ningsih	Studi Formulasi dan Uji Antibakteri Ekstrak Buah Pisang Kayu Mentah
15.15 - 15.50	Dr. apt. Yuliet	Efficacy of the extract and active fraction of the leaves of *Hibiscus surattensis* L. in reducing levels of HbA1c and advanced glycation end products (AGEs) in diabetic type 2 model rat
	Dr. Apt. Yunahara	In Vitro Antioxidant And Anticholesterol of Salam (*Syzygium polyanthum* Wight.) Leaf Extract In 96% Ethanol and Water Using Spectrophotometry Method
	apt. Baiq Leny Nopitasari, M.Farm	Development of Sumbawa Honey as Tonic to Stimulate Stamina During the Covid-19 Pandemic in West Nusa Tenggara
15-50 - 16.25	Mus Ifaya	Antidiabetic potential of active Sub fractions obtained from Purified extract of *Lawsonia inermis* Leaves in Alloxan – Induced Diabetic Mice
	Finish	

ROOM IV: Biomolecular and Clinical Study on Herbal Medicine
MODERATOR : Dr. Yuli Ambarwati, S.Si., M.Si.

TIME	AUTHOR	TITLE
13.30 - 14.05	Ade Silvinia	Effects of Taurine and Ethanol Extract from *Sargassum* sp. to Cervical Cancer Cells (Hela) In Vitro
	Vidia Noviyanti	Chemopreventive Activity of Biduri Root (*Calotropis Gigantea* L.) Ethanol Fraction on MCF-7 Breast Cancer Cells and Vero Normal Cells In Vitro and In Silico
	Melany Ayu Octavia	Activity of Melinjo Seed (*Gnetum Gnemon* L.) Ethanol Fraction Against Colon Cancer Cell (Widr) as Co-Chemotherapy Agent
14.05 - 14.40	Marko Jeremia Kalalo	Antidiabetic potential and pharmacological evaluation of plants bioactive compounds : a computational approach
	Silvia Andriani	Anti-Cancer Effectiveness Test of Methanol Extract Api-Api (*Avicennia Marina*) And Taurin In Vitro in Hela Cervical Cancer Culture
	Ulfa Fitriani	Quality of Life of Patients with Scientifically Formulated Diabetes Herbal Extract Capsules
14.40 - 15.15	dr. Fajar Novianto	The Effect of Physical Fitness Herbal Formula on Quality of Life: Randomized Controlled Trial
	Sadri Haryanti	Cytotoxicity effects of *Hippeastrum puniceum* bulbous extract by modulating cell cycle arrest and apoptotic induction in T47Dyang Diinduksi Streptozotocin breast cancer cell lines
	Ika Yanti Marfuatush Sholikhah	In Vitro Anticancer Screening of Selected Indonesian Medicinal Plants
15.15 - 15.50	Danang Ardiyanto	Study on the Use of Herbal Medicine in the Treatment of Hyperglycemia at the “Hortus Medicus” Herbal Medicine Clinic in 2020
	Musdalifah	Sediaan Salep Bisul dari Ekstrak Daun Bungur
	Winnie Nirmala Santosa	Cardioprotective activity of *Nauclea subdita* (Korth.) Steud. Stem Bark Extract
15-50 - 16.25	Finish	

ROOM V: Functional Food and Bioinformation for biomedical Application

Moderator: Dr. Nuning Nurcahyani, M.Sc.

TIME	AUTHOR	TITLE
13.30 - 14.05	Sakina Yeti Kiptiyah	Antioxidant Activity and Microbial Contamination of *Kaempferia Galanga*.L Aqueous Extract Affected by Heat Treatment Process
	Solikah Ana Estikomah	Evaluation Antibacterial of different formulations of whey Beverages Fermented with Kefir Grains
	Kalidass A. and L. Murugan	Antimicrobial and Antispore Activities of Jambu Batu (*Psidium Guajava* L.) Leaves Extract Against Vegetative Cells and Spores of Bacillus s
14.05 - 14.40	Abdalrahman Mohammad Khamees Al-Zabt	Antibacterial and Antioxidant Activities of Jambu Bol [*Syzygium Malaccense* (L.) Merr. And Perry] Leaves Extract
	Risa Nursanty	Antimicrobial Activity of Guava (*Psidium guajava* Linn.) Against Foodborne Pathogens
	Subeki	Antidiabetic Activity of Siger Rice Made from Waxy Cassava (*Manihot esculenta* Crantz) on Streptozotocin Induced Diabetic Rats
14.40 - 15.15	Samsu Udayana Nurdin	Antidiabetic Activity of Beverage Containing Guava Leaf and Turmeric Mixt
	Dr. Erlintan Sinaga, M.Kes	Bioactivity compound Prediction of *Saurauia vulcani* as immunostimulant : An In Silico Approach
	Sutopo Hadi	The Potential Application of Diphenyltin (IV) Carboxylates as a Future Disinfectant

POSTER

TIME	AUTHOR	TITLE
15.30 - 16.25	Dona Suzana	Penambatan Molekul dan Prediksi Uji Toksisitas pada Senyawa Turunan Inhibitor GATA-2 Sebagai Peningkat Transkripsi Eritropoiesis
	Dini Sri Damayanti	Potency Of Butenedioic Acid Of Soursop Leaves (*Annona muricata*) Water Extract (SLWE) As DPP4 Inhibitor
	Fitri Yuniarti, M.Si (POSTER)	Skrining Aktivitas Antibakteri dan Identifikasi Molekuler Bakteri Asam Laktat (Bal) dari Fermentasi Kubis (*Brassica Oleracea* L.) terhadap Bakteri Patogen *Shigella Dysenteriae*
	Atina Hussaana, Dr. MSi., Apt.	Potensi Serbuk Jamur Tiram Putih (Pleurotusostreatus)-Kaya Vitamin D Terhadap Kadar Gula Darah, Vitamin D Dan Tnf-α Pada Tikus Diabetes

The Potential Application of Diphenyltin(IV) Carboxylates as a Future Disinfectant

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The organotin(IV) carboxylates and their derivatives continues to attract interest to many chemists as these compounds are very active and having strong biological activity. These compounds have previously been tested as anticancer, antimalarial, antibacterial, antifungi, and antioxidants and almost all of them have shown to be very active. Previously, some works on the synthesis and activity studies of some organotin(IV) benzoates and their derivative were reported by our group. In this work, we reported the potential applications of some diphenyltin(IV) carboxylates as disinfectant. Two bacteria, a Gram-positive Staphylococcus aereus and a Gram-negative Salmonella sp. were used in vitro in the disinfectant test with concentration variations of 5x10-3, 1x10-3 and 5x10-4 M and contact time of 5, 10 and 15 min. were performed using a control positive of a strong and common commercial disinfectant available in the market. The disinfectant activity was determined by measuring their optical density using UV-Vis spectrophotometer at λ max. 600 nm. The results indicated that the two diphenyltin(IV) benzoate derivatives synthesized showed much stronger disinfectant activity compared to the control positive as shown by a bigger decrease of their absorbance's in the UV-Vis. Therefore, these two diphenyltin(IV) benzoate derivatives are potential to be used as future disinfectant.