



GEDUNG REKTORAT

3rdInternational
Conference on
Applied Science
Mathematics
and Informatics

"Natural Sciences,
Mathematics and Informatics in
Industri Revolution (IR) 4.0 Toward
The Sustainable Development Goals
(SGDs)"

2020

Faculty of Mathematics and Natural Sciences
University of Lampung

Introduction

The 3rd International Conference on Applied Science, Mathematics, and Informatics (ICASMI)

Bandar Lampung, 3-4 September 2020

Faculty of Mathematics and Natural Sciences, University of Lampung (FMIPA, UNILA) is honored and proud to organize the 3rd International Conference on Applied Science, Mathematics, and Informatics (ICASMI). The theme of the conference is theme "Natural Sciences, Mathematics and Informatics in the Industrial Revolution (IR) 4.0 toward the Sustainable Development Goals (SDGs)."

ICASMI is a biennial event with the aims to bring together international and local scientists, researchers, academicians, also students for sharing their research, exchanging ideas, networking, opening collaboration research. Even in the covid19 pandemic, ICASMI is still held this year. This year, all conference will be held online.

The Keynote speakers are competent in their filed of study. They come from different countries, such as, Japan, Malaysia, Turkey and Indonesia. This conference will provide an opportunity for presenters to present their current research and results, and also for participants to learn up-to-date topics and researches in their field of study.

Best wishes and we welcome you to the 3rd ICASMI held in Bandar Lampung, Indonesia.

Organized by

Faculty of Mathematics and Natural Sciences, University of Lampung (FMIPA, UNILA)

Speech from the Rector of University of Lampung

Vice Rectors, Dean Faculty of Mathematics, Head of LPPM and LP3M in the University of Lampung. Distinguished Keynote Speaker, and participants.



Ladies and Gentlemen Assalamu'alaykum Wr. Wb. Tabik pun Good morning

First of all I would like welcome all of you for participating in the 3rd International Conference on Applied Science, Mathematics, and Informatics (ICASMI) 2020, held by Faculty of Mathematics and Natural Sciences, University of Lampung. Thank you for participating in this Conference.

I would like to express my appreciation to our keynote speakers:

Prof. Kenji Satou (Kanazawa University, Japan)
Prof. Dr. Antonius Suwanto (IPB University,
Indonesia)

Prof. Dr. Hasan Küçükbay (İnönü University, Turkey)

Book of Abstracts | iv

Prof. Harith Ahmad (Univeristy of Malaya, Malaysia)

Porf. Dr. Ismail Bin Mohd (AISMM, Malaysia)

Prof. Ivandini Tribidasari, A (University of Indonesia, Indonesia)

Prof. John Hendri, Ph.D (University of Lampung, Indonesia)

We are honored that you would be participating in this conference.

Even in this Covid-19 pandemic, we are still able participate in this conference.

Indonesia has been participating in ASEAN Economy Community (AEC) and Trans Pacific Partnership (TPP) since several years ago. If Indonesia is not prepared this can be a challenge for us. Global market, innovations and foreign workers with excellence skills will be faced by Indonesia. However, there are also opportunities. By improving research and innovations in Indonesia, also by strengthening the potency of the society in Indonesia, we can face these challenges. Our university, University of Lampung, also encourages strengthen the potency of Indonesian society and values 'Creation and Innovation for the Nation'.

The aim is to improve quality of local products, varieties of invention in all field of study, such as: chemistry, biology, mathematics, physics, and computer science. It

is important to bring together experts in these fields, in hope that we can have better knowledge and produce innovations in Indonesia.

Ladies and Gentlemen,

Hopefully in this Conference, there will be new ideas, discussion, collaboration between participants. I strongly believe that through the 3rd International Conference on Applied Science, Mathematics, and Informatics, we are able to improve our potency to face all challenges, and achieve more opportunities in the future.

I hope this Conference is able to inspire and deliver benefits to all participants, in which together we are able to contribute to science and research.

Once again, welcome to this conference and have a wonderful discussion.

Thank you very much.

Wassalamu'alaikum Wr. Wb.

Prof. Karomani, Rector of University of Lampung



Speech from the Dean of Faculty of Mathematics and Natural Sciences

Assalamu'alaikum Wr. Wb. In the Name of Allah, The Most Beneficent, the Most Merciful. Tabik pun

It is my great honor on behalf of Faculty of Mathematics and Natural Science, to welcome all participants to the 3rd International Conference on Applied Science, Mathematics, and Informatics (ICASMI). The theme of the conference is theme "Natural Sciences, Mathematics and Informatics in the Industrial Revolution (IR) 4.0 toward the Sustainable Development Goals (SDGs)." Even though in this Covid19 pandemic, we are still able to organize this Conference.

We hope this conference can be a platform to gather and disseminate new innovations and research in science, in particular natural science, applied science, mathematics, and also computer science/ informatics. Researchers, academicians, and students are able to share and discuss new findings and applications of science. The aim is to initiate collaborations academics, researches and industries, both national and international. As it stated in

the conference theme we encourage innovations and research to achieve the Sustainable Development Goals (SDGs).

Ladies and Gentlemen,

Faculty of Mathematics and Natural Sciences is one of the popular Faculty in University of Lampung. Currently, Our Faculty has more than 2,900 students, spread across 11 study programs. We have 1 Diploma Program, 6 Undergraduate Program, 4 Master Program, and 1 Doctoral Program. Our faculty member also includes 11 Professors and more than 50 Assistant Professor, therefor with these resources, there are many opportunities to conduct collaborations with Our Faculty. Besides, International Conference, Our Faculty also periodically organize National Conference regularly also.

Thank you to the Rector of University of Lampung, Head of LPPM, the Head of LP3M, all the keynote speakers and participant. I would also like to give my gratitude to the organizing committee for their hard efforts in organizing this conference.

Wassalamu'alaykum Wr. Wb.

Dr. Eng. Suripto Dwi Yuwono, M.T Dean of Faculty of Mathematics and Natural Sciences

Book of Abstracts | viii



Speech from the Conference Chairman

Good morning
Tabik pun
Honorable Rector of University
of Lampung Prof. Karomani,

Dean of Faculty of Mathematics and Natural Sciences, Dr. Eng. Suripto Dwi Yuwono, M.T, Head of LPPM and LP3M,

Prof. Kenji Satou (Kanazawa University, Japan)

Prof. Dr. Antonius Suwanto (IPB University, Indonesia)

Prof. Dr. Hasan Küçükbay (İnönü University, Turkey)

Prof. Harith Ahmad (Univeristy of Malaya, Malaysia)

Porf. Dr. Ismail Bin Mohd (AISMM, Malaysia)

Prof. Ivandini Tribidasari, A (University of Indonesia, Indonesia)

Prof. John Hendri, Ph.D (University of Lampung, Indonesia),

First of all, I would like to express my gratitude to the Rector of University of Lampung and the Dean of Faculty of Mathematics and Natural Sciences. Thank you for the support and encouragement the 3rd International Conference on Applied Science, Mathematics, and Informatics (ICASMI) can be held, even in this covid-19 pandemic. This year, the

conference is held online. All presentations and posters will be held online.

ICASMI aims is align with the vision and mission of University of Lampung which is to promote education and research in the field of science. On behalf of the committee, we are glad to report that we received great response from participants and from keynote speakers. There are more than 100 participants from various universities and institutions that will present their research in this conference. The keynote speakers are also very qualified in their field of research.

Ladies and Gentlemen,

I would also like to report that the paper presented in this conference like the previous conference, will be Published in Journal of Physics: Conference Series. This is a reputable Proceedings as it indexed by Scopus Q3 and with SJR 0.23.

Finally, I hope this Conference is able to inspire and deliver benefits to all participants, in which together we are able to contribute to science and research.

Thank you very much for your attention and I hope you will enjoy this conference.

Prof. Dr. Rudy T.M. Situmeang Chairman of the 3rd IC

TABLE OF CONTENT

	Page
Introduction	ii
Speech from the Rector of University of Lampung	iv
Speech from the Dean of Faculty of Mathematics and	vii
Natural Sciences	
Speech from the Conference Chairman	ix
Table of Content	xi

Keynote Speakers	
Title	Page
Problems and Approaches in Animal Behavior Analysis Kenji Satou	1
Pulsed Laser Generation Using Thulium Fluoride Fiber In S Band Region	2
Harith Ahmad, Siti Aisyah Reduan, Kavintheran Thambiratnam	
Basic Sciences in Molecular Biotechnology: From Genetic Engineering to Genome Editing Antonius Suwanto	6
A Globally Convergent Interval Newton-Tanti-Zahra's Method for Simple and Multiple Real Roots of a Function with One variable I b Mohd and Y Dasri	4
Modified-Boron-Doped Diamond for a Direct Urea Fuel Cell Ivandini Tribidasari Anggraningrum	5
Modified-Boron-Doped Diamond for a Direct Urea Fuel Cell Ivandini Tribidasari Anggraningrum	5
Benzotriazole-mediated synthesis of indole-peptide conjugates N. Yıldırım, H. Küçükbay	6
Bioproduct and Inventory of Biodiversity John Hendri, Andi Setiawan, Aspita Laila, NLG Ratna Juliasih, M. Komarudin	7

Biology Code	Title	Page
BIO_01	The Diversity and the Abundance of Corn Planthopper (Hemiptera: Delphacidae) in Lampung Province	9
BIO_02	Identification of SNPs Associated with Iron Toxicity Tolerance in Rice	10
BIO_03	EXTRACT OF METHANOL LEAVES Avicenia marina AND TAURIN IN THE HELa CANCER CELLS IN VITRO	11
BIO-04_Ps	Diversity and Density of Gastropod in the Biluhu Timur Coastal Region of Gorontalo, Indonesia	12
BIO_05_Ps	Molecular characterization of fermentative bacteria on Local Microorganisms of Pomacea canaliculata	13
BIO_06	Characterization Of morfology structure flower from variation cultivars of pisang kepok (Musa paradisiaca L.)	14
BIO_07	Altering Physical Characteristics of Sinking Fish-Feed through Sub-Optimal Fermentation Using Tempeh Mould without Mechanical Extrusion	15
BIO_08	Isolation and identification of entomopathogen fungi as candidate of bioinsecticide from flies and cockroaches' (Insect vector's disease)	16
BIO_09	Monosex male formation of juvenile redclaw crayfish using natural steroid hormone from gamma sea cucumber and different doses of honey bee	17
BIO_10	Micropropagation of Red Ginger (Zingiber officinale Rosc. Var. Rubrum) Using Several Types of Cytokinins	18
BIO_11	Antidiabetic Potency of Jeruju (Acanthus ilicifolius L.) Ethanol Extract and Taurine on Histopathological Response of Mice Kidney (Mus musculus L.) Induced by Alloxan	19
BIO_12	Growth and Estimation of Potential Carbon Absorption by Transplantation Branching Coral Reefs on Mahitam and Pahawang Islands, Pesawaran Regency, Lampung Province	20
BIO_13	Isolation and characterization of mercury-resistance for ammonia-oxidizing bacteria from mangrove sediment, hanura lampung beach	21
BIO_14	Antibacterial effects of Pheretima javanica Extract and bioactive chemical analysis using Gas Chromatography Mass Spectrum	22

BIO_15	Inhibitory Study Of Cassava Leather Ethanol Extract	23
	As Natural Antimicrobial In Reducing Salmonella Sp.	
	And Escherichia Coli On Contamination Chicken Meat	
	(Gallus Domesticus)	
BIO_16	The Potential of Temephos as Larvacide for Malaria	24
	Vector Control in Katibung Subdistrict, South	
	Lampung	
BIO_17	Effect of Duwet fruit (Syzgium cumini) extract on	25
	MDA level and Caspase 3 expression in Rat (Rattus sp	
)Testes exposed to cigarette smoke	
BIO_18	Bacterial support as a biostimulant agent (BPNIII,	26
	Azzofor) for marginal soil fertility and stimulating	
	seedlings growth in nursery	
BIO_19	Antioxidant and Antimicrobial Activity of Endophytyc	27
	Fungi Isolated from Syzygium aqueum Leaves	
BIO_20	Analysis of the Effect of Different Types of Coffee	29
_	Shade on Robusta Coffee Productivity	
BIO_21	Analysis of Total Carbohydrate and Chlorophyll	30
	Content of The Orchid Plantlet [Phalaenopsis amabilis	30
	(L.) Bl.] Resistant Fusarium Wilt Disease	
BIO_22	The Effect of Fermentation on Acidity, Caffeine and	31
	Taste Cascara Robusta Coffee	01
	Tusto Custana Tiscusta Collec	
BIO_24_Ps	Effect of immersion time in extract gonad of sea urchin	31
	on masculinization of betta fish (Betta sp)	
	•	
BIO_25	Identification of Against Virus Infection on Native	32
	Orchid in Liwa Botanical Garden	
BIO_26	Solvent extraction effects on Phytochemical	33
	Constituents and Antioxidant Activities of Buds of	
	Punica granatum L. grown in Adıyaman- Turkey	
BIO_27_Ps	Effect different doses of extract gonad of sea urchin on	34
	masculinization of betta fish (Betta sp)	
	1/	
BIO_PRES_01	Application of Xylanolytic Fungi Inoculum of	35
	Aspergillus Tubingensis R. Mossery In Bamboo Litter	
	(Bambusa Sp.) Composting	
BIO_PRES_02	ANTICANCER POTENCY OF JERUJU LEAF	36
	(Acanthus ilicifolius) AND SEAGRASS (Enhalus	
	acoroides) METHANOL EXTRACT AND TAURIN	
	IN CELL CULTURE OF HELA CERVICAL	
	CANCER	
BIO_PRES_03	Resistance of Red Chilies (Capsicum annum L.) to	37
	Fusarium oxysporum Attack as a Result of 0.2 mT	
	Magnetic Field Induction	

Chemist	try	
Code	Title	Page
CHEM_01	The Use of SIMCA Method and NIR Spectroscopy with	38
	Two Different Hand Held and Portable Spectrometers	
	Equipped with Integrating Sphere for Classification of Two Different Indonesian Specialty Coffees	
CHEM 02	Simple analytical method based on UV-visible	39
	spectroscopy coupled with SIMCA method for	37
	authentication of Lampung robusta coffee with	
	geographic indications (GIs)	
CHEM_03	Solar-Powered Electrocoagulation System for Tofu	40
	Wastewater Treatment and its Characteristic	
CHEM_05	Microcapsule from PCL/PEG as Controlled Nifedipine	41
	Drug Delivery Carrier	
CHEM_06	Controlled Drug Delivery Carrier of Nifedipine Using	42
	Biodegradable Microcapsule Polymer from Poly (D,L-	
	Lactic Acid) and Polyethylene Glycol	
CHEM_07	Efficiency of Natural Folic Acid in Infant Poured Cream	43
	Soup using Mocaf for Complementary Feeding	
CHEM_08	Adsorption Kinetic and Isotherm of Solution Pair of	45
	Methylene Blue and Crystal Violet by Algae-Silica-	
CHENA 00	Magnetite Hybrid Adsorbent on Porphyridium sp. Algae	
CHEM_09	Transition Energy, Spectral Fine Structure, and	46
	Absorption Coefficient of Norbixin (9'-cis-6,6'-	
CHEM 10	diapocarotene-6,6'dioic acid) in Different Polar Solvents Modification of Activated Carbon from Elaeis Guineensis	47
CHEM_IV	Jacq Shell with Magnetite (Fe3O4) Particles and Study	47
	Adsorption-Desorption on Ni(II) Ions in Solution	
CHEM_11	Preparation and Characterization of LaCr0.99Fe0.01O3	48
_	Nanomaterial	40
CHEM_12	BIOGASOLINE PRODUCTION BY ZEOLITE-A	49
	CATALYZED CO-PYROLYSIS OF TORREFIED	
	CASSAVA ROOT AND PALM OIL	
CHEM_13	Synthesis of Zeolite-Y from Rice Husk Silica and Food	50
	Grade Aluminium Foil Using Modified Hydrothermal	
	Method	
CHEM_14	Structure Elucidation of Betulinic Acid from Sesbania	51
	grandiflora Root	
CHEM_16	Transesterification of coconut oil (Cocos nucifera L.) into	52
	biodiesel using zeolite-A catalyst based on rice husk silica	
	and aluminum foil	
CHEM_17	Pyrolitic Conversion of Palm Oil into Using Protonated	53
	Zeolite-X Prepared from Rice Husk Silica and Aluminum	
CHEM 18	Foil as Catalyst	
CHEM_IS	Isolation and Identification of Endophytic Fungi	54
	Associated with Indonesian Sesbania grandiflora Plant	

CHEM_19	STUDY OF PHENOL TRANSPORT USING POLYMER INCLUSION MEMBRANE (PIM)	55
	METHOD WITH COPOLY(EUGENOL-DIVINYL BENZENE) AS CARRIER	
CHEM_20	The effect of initiator concentrations on corrosion	56
	inhibition activity of polymeric derivatives of 2- vinylpyridin	
CHEM_21	Crosslinking effects of borate additives on the structure	58
	and properties of sago starch - polyvinyl alcohol blend films	
CHEM_22	Identification and activity test of flavonoid compounds	59
	from wood branches of the pudau plant (Artocarpus	
CHEM_23	kemando Miq.) as antibacterial	60
CHEWI_23	Production, purification and characterization of the α- amylase from local bacteria isolate Bacillus subtilis	60
	ITBCCB148	
CHEM_24	Effect of glutaraldehyde addition on the stability of the α-	61
	amylase from Bacillus subtilis ITBCCB148	
CHEM_25	Synthesis, characterization, and antioxidant activity of	62
	some organotin(IV) 2-nitrobenzoate using the 2,2-	
CHEM_26	diphenyl-1-picryl-hydrazyl (DPPH) method	
CHEMI_20	Synthesis, characterization and the antifungal activity test of some organotin(IV) benzoates	63
CHEM 27	The use of MgO/SiO2 as catalyst for transesterification of	64
C111111_1/	rubber seed oil with different alcohols	04
CHEM_28	Isolation and Identification of Terpenoid Compound from	65
	Vetiver Grass-Root (Vetiveria zizanioides Stapf) as a	02
	Repellent against Termite (Cyrptotermes sp.) through	
	Bioactivity Assay	
CHEM_29	Docking Interaction of Chromium(III) Picolinate and	67
	Chromate Ion Compounds with Protein Tyrosine	
	Phosphatase as Insulin Receptors	
CHEM_30	Biodegradation of Agricultural Residues Containing High Cellulose by Local Isolate Fungi	69
CHEM_31	Utilization of zeolite H-MOR based on bagasse ash silica	70
	as a catalyst for the hydrolysis reaction of cassava peel	, ,
	cellulose for glucose production	
CHEM_32	The effect of Vanadium dopant on Bandgap Energy of	71
	Ni1-xVxFe2O4 nanospinel	
CHEM_33	Virtual Screening of Active Ligands from Natural	72
	Compounds as Anti-Asthma Candidates using PAF-r	
	Protocol and Rupatidine as Lead Compound	
CHEM_34-Ps	The Potency of Cinnamon as An Anti-Diabetic and Anti-	73
	Covid19 based on Its Mineral Content and Phenolic	
CHEM 35	Compounds Dynamics of Lid lipMNK on Lys229Gln Mutation by	74
O111111_00	Molecular Dynamics Simulation Approach	/4
	Molecular Dynamics Simulation Approach	

CHEM_36_Ps		
CHEM_30_1 s	Preparation of Watermelon Mesocarp Powder (Citrullus lanatus Thunb.) with Freeze Drying Method and Test its Potensial as Anti Obesity and Anti COVID-19.	76
CHEM_37	Simultaneous Bioconversion of Rice Straw into Intermediate Product using Ionic Liquid and Native Extracellular Hydrolytic Enzyme from Indigenous Actinomycetes	77
CHEM_PRES _01	Synthesis of TiO2 nanowires with molten-salt method and effect of metal addition on its characteristics and application for reduction of 4-nitrophenol	78
CHEM_PRES _02	Development of an LC-MS/MS method for simultaneous determination of aflatoxins in nutmeg	80
CHEM_PRES _03	The effect of temperature during casting process for Polyvynilidone Fluoride membrane and its derivative	81
CHEM_PRES _04	Simultaneous Analysis of Benzoic Acid, Methylparaben, and Butylparaben in Soy Sauce by Liquid Chromatography: Method Validation and Uncertainty Evaluation	82
CHEM_PRES _05	Cloning, Heterologous Expression and Purification of Serine Hydroxymethyltransferase from thermophilic bacteria Pseudoxantomonas taiwanensis AL89	83
CHEM_PRES _06	SYNTHESIS OF Cr(ASPARTATE)3 AND Cu(ASPARTATE)2 COMPLEXES AS ANTIDIABETIC COMPOUNDS	84
CHEM_PRES _07	SYNTHESIS AND CHARACTERIZATION OF MAGNETIC MOLECULARLY IMPRINTED POLYMERS FOR PRACONCENTRATION OF BISPHENOL A	85
CHEM_PRES _08	Preparation of Magnetic Activated Carbon from Cassava Peel for Removal of Tetracycline Antibiotic in Aquatic Environment	86
CHEM_PRES _09	Fractination of Fucoxantin from Cyclotella striata using Medium Performance Liquid Chromatography (MPLC)	87
CHEM_PRES _10	NiO/ZSM-5 catalyzed transesterification of rubber seed oil with methanol	88
CHEM_PRES 11	ISOLATION AND CHARACTERIZATION OF BIOACTIVE COMPOUNDS OF MANGROVE	89
_	Avicennia marina ENDOFIT MUSHROOM IN THE BAY OF LAMPUNG	
CHEM_PRES _12	BAY OF LAMPUNG Synthesis of Curcumin Analogs Under Ultrasound Irradiation	90
CHEM_PRES	BAY OF LAMPUNG Synthesis of Curcumin Analogs Under Ultrasound	90 91

Informa	tics	
Code	Title	Page
INF_02	Implementation protein sequence segmentation in AAC and DC as protein descriptors for improving a classification performance of acetylation prediction	93
INF_03	Risk Analysis in the Application of Financore Information Systems Using FMEA Method	94
INF_04	Web GIS based assessment using SAW methods to identify high risk area of tuberculosis transmission and incidence in Lampung Province	96
INF_05	Development of the Fuzzy Profile Matching Model for Prediction and Medical Recommendation of Thalassemia Disease	97
INF_06	Confidence Analysis of Hotspot as Peat Forest Fire Indicator	98
INF_07	User-Centered Design for Website and Mobile Application to Monitor Recovery Process of Post- Treatment Mental Disorders	99
INF_08	Effect of mono corpus quantity on statistical machine translation Indonesian – Lampung dialect of nyo	101
INF_09	Canny Edge Detection for Goldfish (Carrasius Auratus) Identification	102
INF_10	Donasi Babe: Android Applications for Used Goods Donations using Location-based Service	103
INF_11	Penerapan Algoritma K-Means untuk Klasterisasi Wilayah Kelayakan Tanam Jagung di Kabupaten Lampung Selatan	104
INF_12	Comparison of Least Significant Bit, Pixel Value Differencing and Modulus Function on Steganography to Measure Image Quality, Storage Capacity and Robustness	105
INF_13	Abstract Classification Using Support Vector Machine Algorithm (Case Study: Abstract in a Computer Science Journal)	106

INF_14	IT Model and Design for Village Government in compliance with the Smart Village Concept (Case Study: Pekon Wonodadi)	107
INF_15	Implementation of Various Artificial Intelligence Approach for Prediction and Recommendation of Personality Disorder Patient	108
INF_16	A Fuzzy Expert System Design for Diagnosis of Prostate Cancer	109

Mathemat	tics	
Code	Title	Page
MATH_01	The Sufficient Condition of Submodule C*m as a Subcomodule over C	110
MATH_02	Numerical method in riemann invariant form for a submerged bar breakwater model	111
MATH_03	Ordinal Regression Analysis to see the Effect of Online Learning Media on Student Enthusiasm in the Covid-19 Pandemic Era	112
MATH_04	Incident and reflected wave separation on wave propagation over breakwater	113
MATH_05	Survival analysis with the Cox Proportional Hazard Method to determine the factors that affect the effectiveness of the PSBB system in various areas affected by the covid-19 pandemic	114
MATH_06	Dispersive Model for Undular Hydraulic Jump Behind a Weir	115
MATH_07	Solution Formula of the Compressible Fluid Motion in Three Dimension Euclidean Space using Fourier Transform	116
MATH_09	The Locating Chromatic Number of some Modified Path with Cycle having Locating Number Four	117
MATH_10	The Locating Chromatic Number for Split Graph of Cycle	118
MATH_11	A Two-Dimensional Map Derived From An Ordinary Difference Equation of mKdV and Its Properties	119
MATH_12	Survival Analysis Using Cox Proportional Hazard Regression Approach in Dengue Hemorrhagic Fever (DHF) Case in Abdul Moeloek Hospital Bandar Lampung in 2019	120
MATH_13	Application of Vector Autoregressive with Exogenous Variable	121
MATH_14	MODELING MULTIVARIATE TIME SERIES BY VECTOR ERROR CORRECTION MODELS (VECM) (Study: PT Kalbe Farma Tbk. and PT Kimia Farma (Persero) Tbk)	122

MATH_15	Dynamic Modeling Data Return by Using Bekk-Garch (Study: PT. Indofarma Tbk (INAF) and PT.Kimia Farma Tbk(KAEF) from June 2015 to July 2020)	124
MATH_16	DYNAMIC MODELING DATA RETURN BY USING BEKK-GARCH (Study: PT. Indofarma Tbk (INAF) and PT.Kimia Farma Tbk(KAEF) from June 2015 to July 2020)	126
MATH_17	Application of Vector Error Correction Model (VECM) and Impulse Response Function for Indonesia Plantation Stock Prices Data Analysis	128
MATH_18	MODELING AND FORECASTING DATA TIME SERIES (Study: Weekly Closing Share Price of PT. Aneka Tambang,tbk from January 2010 to April 2020)	129
MATH_19	MODELING AND FORECASTING DATA FARMER'S TERM OF TRADE	130
MATH_20	The Locating-Chromatic Number of Certain Barbell Origami Graphs	131
MATH_21	Quantitative Method For Analysis of Non-Performing Financing Return: A Case Study on Assets of PT. BSM	132
MATH_22	Asymptotically Unbiased, Efficient, and Consistent Properties of the Bayes estimator in the Binomial Distribution with Prior Beta	134
MATH_23	Characteristics of Bayes Estimator in the Geometric Distribution with Prior Beta	135
MATH_24	Robust Principal Component Trimmed Clustering of Indonesian Provinces Based on Human Development Index Indicators	136
MATH_25	SUB-EXACT SEQUENCE ON HILBERT SPACE	137
MATH_26	The Formula to Count The Number of Vertex Labeled Order Six Loopless Connected Graphs with Maximum Thirty Edges without Loops and May Contain at Most Fifteen Parallel Edges	138
MATH_27	Determining the Number of Disconnected Vertices Labeled Graphs of Order Six with the Maximum Number Ten Parallel Edges and Containing No Loops	139

MATH_28	Real time epidemic modeling using Richard's model: application for the Covid-19 outbreak in East Kalimantan, Indonesia	140
MATH_29	Modeling Autoregressive Integrated Moving Average (ARIMA) and Forecasting of PT Unilever Indonesia Tbk Share Prices During the COVID-19 Pandemic Period	141
MATH_30	Determining the Noetherian Property of Generalized Power Series Modules by Using X-Sub-Exact Sequence	142
MATH_31	Calculating the Number of vertices Labeled Order Six Disconnected Graphs which Contain Maximum Seven Loops and Even Number of Nonloop Edges Without Parallel Edges	143
MATH_32	A Structural Equation Modeling of Factors Affecting Student Motivation in Thesis Preparation	144
MATH_33	Mathematical Modeling of Heat Transper in Agriculture Drying Machine Room (Box Dryer)	145
MATH_PRES_ 01	Gamma and Lognormal Models in the Generalized Linear Model Perspective	146

Physics		
Code	Title	Page
PHY_01	Influence of Dy-doping in Nd2Fe14B on its structural and magnetic properties	147
PHY_02	Impact of Mn4+ ion substitution on La0.4Sr0.6Fe1- x MnxO3 perovskite conductivity ($x = 0.2, 0.4$ and 0.6) as a solid fuel cell cathode	148
PHY_04	Sintering Temperature Effect on Optical Properties of Zinc Oxide Thin Film on Glass Substrate Prepared by Sol-Gel Spin Coating Method	149
PHY_05	Structure Analysis of Electromagnetic Waves Absorbing Material A Lanthanum Manganite System of (La0.8Ba0.2) (Mn(1-x)/2ZnxFe(1-x)/2)O3	150
PHY_06	Rietveld analysis of geopolymer prepared from amorphous rice husk silica with different thermal treatment	151
PHY_07	Effect of heating Phenomenon on Silica-asphalt Composite Properties using Amorphous Rice Husk Silica	152
PHY_08	Deep Learning for Detection Cassava Leaf Disease	153
PHY_09	Nonrelativistic One-Hadron-Exchange K-P Interaction Model	154
PHY_10	Application of nano electrode Ag/AgCl on potentiometric sensor based on molecularly imprinted polymer (MIP) to verify caffeine	155
PHY_11	Comparative study of Cladophora sp. cellulose by using FTIR and XRD	156
PHY_12	One Hadron Exchange Non-Relativistic Model for K^+ p Potential	157
PHY_14	Design of modulated infrared laser as a radiation source of portable photoacoustic spectroscopy	158
PHY_15	Simulation of NO2 work function-based sensor signal on ZnO	159
PHY_16	Measurement of Physical Parameters of Water Quality in Real-Time Based on Arduino	160

Code: CHEM 37



Simultaneous Bioconversion of Rice Straw into Intermediate Product using Ionic Liquid and Native Extracellular Hydrolytic Enzyme from Indigenous Actinomycetes

H Satria^{1*}, Yandri¹, Nurhasanah¹, D Herasari¹, A Laila¹, S D Yuwono¹

¹ Department of Chemistry Faculty of Mathematics and Natural Sciences University of Lampung, Jl. Soemantri Brojonegoro No.1 Bandar Lampung 35145, Indonesia

email: heri.satria@ fmipa.unila.ac.id*

ABSTRACT

Bioethanol production technology using lignocellulosic substrates has become a focus to overcome the limited supply of fossil fuels in the current century. Simultaneous saccharification require to understand of suitable efficient procedures in bioconversion row material into fermented sugar. In this study, effect of pretreated rice straws using ionic liquid on enzymatic saccharification by isolated actinomycetes were investigated. Ionic liquid to rice straw in ratio (IL/RS) were set up 0 to 3 (g/g), and remaining of the ionic liquids in pretreated biomass was examined for its effect on the hydrolytic enzyme activity of the actinomycetes. Three of actinomycetes were isolated from decomposed rice straw and were purified and screened for their cellulolytic and xylanolytic activity; one strain, namely Act-4rs, was selected as an optimum isolate for the further hydrolysis examination. Both of cellulase and xylanase activity exhibit a peak at a ratio IL/RS of 1 (g/g), the activity was 58.43 and 66.16 U/ml respectively. The highest yield of sugar also achieved at this IL/RS ratio for 8 days incubation. The pretreatment indicate that it could promote an increase in the yield sugar up to 1.9 times. This study was promising to develop a one-pot conversion of lignocellulosic biomass into bioethanol using the biological process.

keyword: hydrolisis, cellulase, xylanase, actinomycetes, ionic liquid, rice straw.

RUNDOWN 3rd ICASMI 2020, 3 September 2020

Time	Duration	Acivity		Р	IC		
07.30 am	60 mins	Registration		·	dan sekretariat		
08.30 am	10 mins	Opening	ceremony	MC: Alvin W. S	Susanto , Tim IT		
08.40 am	10 mins.	Indonesian Na	ational Anthem	Tin	n IT		
09.00 am	10 mins.		ASMI Chairman	Prof. Dr. Rud	y TMS., M.Sc		
09.10 am	10 mins.		culty of Mathematics and Natural rsity of Lampung	Dr.Suripto Dw	i Yuwono, M.T		
09.20am	10 mins.	Official opening by Rector of University of Lampung		Prof. Dr. Ka	romani, M.Si		
09.30 am	10 mins.	Doa/p	rayers	Mulyon	o, Ph.D		
09.40 am	5 mins.	Ů	Remark	MC: Alvin W. Susanto			
09.45 am	10 mins.	Photo :	Session	MC: Alvin \	V. Susanto		
			Plenary Session 1				
10.00 am	50 mins		l: Prof. Kenji Satou f. Dr. Antonius Suwanto	Moderator 1 : Prof. Dr. Wa	sinton Simanjuntak, M.Sc		
10.50 am	50 mins		Keynote Spekaer 3: Prof. Dr. Ismail Bin Moh Keynote Speaker 4: Prof. Dr. Hasan Kucukbay		Dr. Wamiliana, M.Si		
	LUNCH BREAK (11.40-13.00)						
			Parallel Session				
	Parallel Room 1	Parallel Room 2	Parallel Room 3	Parallel Room 4	Parallel Room 5 (Physics)		
	Chemistry	Biology	Mathematics	Computer Sciences	Physics		
Time	Moderator : Dr. Nurhasanah	Moderator: Dr. Endang Nurcahyani, M.Sc	Moderator : Dr. Khoirin Nisa	Moderator: Anie Rose Irawati, M. Cs.	Moderator: Ayu Humairoh, M.Si		
	Dr. Agr. Sc. Diding Suhandy, S.TP, M.Agr The Use of SIMCA Method and NIR Spectroscopy with Two Different Hand Held and Portable Spectrometers Equipped with Integrating Sphere for Classification of Two Different Indonesian Specialty Coffees	Prof. Rosma Hasibuan The Diversity and the Abundance of Corn Planthopper (Hemiptera: Delphacidae) in Lampung Province	Tiryono Ruby PEMODELAN MATEMATIKA TRANSPER PANAS PADA RUANG MESIN PENGERING PERTANIAN (BOX DRYER)	Chalida Syari Descriptive study of community development program in coastal village business enterprises (BUM Desa) Teluk Pandan and Padang Cermin sub-district, Pesawaran district	Sony Sukmara Influence of Dy-doping in Nd2Fe14B on its structural and magnetic properties		
	Meinilwita Yulia, S.TP, M.Agr.Sc	Lili Chrisnawati	Nikken Prima Puspita	Annisa Rizqiana	Maya Puspiyasari Izaak		
13.00-13.35	Simple analytical method based on UV-visible spectroscopy coupled with SIMCA method for authentication of Lampung robusta coffee with geographic indications (Gls)	Identification of SNPs Associated with Iron Toxicity Tolerance in Rice	The Sufficient Condition of Submodule C*m as a Subcomodule over C	Implementation protein sequence segmentation in AAC and DC as protein descriptors for improving a classification performance of acetylation prediction	Impact of Mn4+ ion substitution on La0.4Sr0.6Fe1-xMnxO3 perovskite conductivity (x = 0.2, 0.4 and 0.6) as a solid fuel cell cathode		
	Muryanto	Silvia Andriani	Hany Qoshirotur Rif'atin	Yaya Sudarya Triana	Ayu Wita Sari		
	Solar-Powered Electrocoagulation System for Tofu Wastewater Treatment and its Characteristic	EXTRACT OF METHANOL LEAVES Avicenia marina AND TAURIN IN THE HELa CANCER CELLS IN VITRO	Numerical method in riemann invariant form for a submerged bar breakwater model	Risk Analysis in the Application of Financore Information Systems Using FMEA Method	The effect of mAs on eye radiation doses on cranium examination		

	Nur Afdila	Eti Ernawiati	Asti Meiza	Astria Hijriani	Leni Rumiyanti, S.Pd, M.Sc
	The Study of DNA Adduct (8-OHdG) Formation as A Cancer Risk Biomarker as In Vitro in 2'- Deoxyguanosine DNA Through Fenton – Like Reaction With Malondialdehyde (MDA)	Characterization Of morfology structure flower from variation cultivars of pisang kepok (Musa paradisiaca L.)	Ordinal Regression Analysis to see the Effect of Online Learning Media on Student Enthusiasm in the Covid- 19 Pandemic Era	Web GIS based assessment using SAW methods to identify high risk area of tuberculosis transmission and incidence in Lampung Province	Sintering Temperature Effect on Optical Properties of Zinc Oxide Thin Film on Glass Substrate Prepared by Sol-Gel Spin Coating Method
	Wanda Amelia Rahma	Catur Sriherwanto	Muh Fadhel Atras	Erliyan Redy Susanto	Leni Rumiyanti, S.Pd, M.Sc
13.35-14.10	Microcapsule from PCL/PEG as Controlled Nifedipine Drug Delivery Carrier	Altering Physical Characteristics of Sinking Fish-Feed through Sub- Optimal Fermentation Using Tempeh Mould without Mechanical Extrusion	Incident and reflected wave separation on wave propagation over breakwater	Development of the Fuzzy Profile Matching Model for Prediction and Medical Recommendation of Thalassemia Disease	Structure Analysis of Electromagnetic Waves Absorbing Material A Lanthanum Manganite System of (La0.8Ba0.2) (Mn(1- x)/2ZnxFe(1-x)/2)O3
	Pratiwi Puji Lestari	Ria iswandari	Budiman	Dewi Asiah Shofiana	Agus Riyanto
	Controlled Drug Delivery Carrier of Nifedipine Using Biodegradable Microcapsule Polymer from Poly (D,L- Lactic Acid) and Polyethylene Glycol	Inhibitory Study Of Cassava Leather Ethanol Extract As Natural Antimicrobial In Reducing Salmonella Sp. And Escherichia Coli On Contamination Chicken Meat	Survival analysis with the Cox Proportional Hazard Method to determine the factors that affect the effectiveness of the PSBB system in various areas affected by the covid-	Confidence Analysis of Hotspot as Peat Forest Fire Indicator	Rietveld analysis of geopolymer prepared from amorphous rice husk silica with different thermal treatment
	Agustine Susilowati	Endang Linirin	Felicia Joanna Sutjianto	Yohana Tri Utami	Simon Sembiring
	Efficiency of Natural Folic Acid in Infant Poured Cream Soup using Mocaf for Complementary Feeding	Isolation and identification of entomopathogen fungi as candidate of bioinsecticide from flies and cockroaches' (Insect vector's disease)	Dispersive Model for Undular Hydraulic Jump Behind a Weir	User-Centered Design for Website and Mobile Application to Monitor Recovery Process of Post-Treatment Mental Disorders	Effect of heating Phenomenon on Silica-asphalt Composite Properties using Amorphous Rice Husk Silica
	desy permatasari	Gregorius Nugroho Susanto	Sri Maryani	Zaenal Abidin, S.Si., S.Kom., M.T.	Hamzah Fadhlurahman
14.10-14.45	Adsorption Kinetic and Isotherm of Solution Pair of Methylene Blue and Crystal Violet by Algae-Silica- Magnetite Hybrid Adsorbent on Porphyridium sp. Algae	Monosex male formation of juvenile redclaw crayfish using natural steroid hormone from gamma sea cucumber and different doses of honey bee	Solution Formula of the Compressible Fluid Motion in Three Dimension Euclidean Space using Fourier Transform	Effect of mono corpus quantity on statistical machine translation Indonesian – Lampung dialect of nyo	Nonrelativistic One-Hadron- Exchange K-P Interaction Model
	Dr. Winda Rahmalia, S.Si., M.Si	Karyanti	La Zakaria	Yunda Heningtyas	Febri Yanto
	Transition Energy, Spectral Fine Structure, and Absorption Coefficient of Norbixin (9'-cis-6,6'-diapocarotene- 6,6'dioic acid) in Different Polar Solvents	Micropropagation of Red Ginger (Zingiber officinale Rosc. Var. Rubrum) Using Several Types of Cytokinins	Step by Step Mathematica® Programming on Analysis of Non- Performing Financing Return: A Case Study on Assets of PT. BSM	Canny Edge Detection for Goldfish (Carrasius Auratus) Identification	Application of nano electrode Ag/AgCl on potentiometric sensor based on molecularly imprinted polymer (MIP) to verify caffeine
	Annisaa Siti Zulaicha	Rochmah Agustrina	Maharani Damayanti	Agung Pambudi	Sri Wahyu Suciyati
	Modification of Activated Carbon from Elaeis Guineensis Jacq Shell with Magnetite (Fe3O4) Particles and Study Adsorption-Desorption on Ni(II) Ions in Solution	Resistance of Red Chilies (Capsicum annum L.) to Fusarium oxysporum Attack as a Result of 0.2 mT Magnetic Field Induction	The Locating Chromatic Number of some Modified Path with Cycle having Locating Number Four	Donasi Babe: Android Applications for Used Goods Donations using Location-based Service	Comparative study of Cladophora sp. cellulose by using FTIR and XRD
	Mahliani Erianti	Sayu Kadek Dwi Dani	Kasandra Prawinasti	Ahmad Ari Aldino, S.Si., M.Si.	Glenno
14.45-15.20	Preparation and Characterization of LaCr0.99Fe0.01O3 Nanomaterial	Growth and Estimation of Potential Carbon Absorption by Transplantation Branching Coral Reefs on Mahitam and Pahawang Islands, Pesawaran Regency, Lampung Province	The Locating Chromatic Number for Split Graph of Cycle	Penerapan Algoritma K-Means untuk Klasterisasi Wilayah Kelayakan Tanam Jagung di Kabupaten Lampung Selatan	One Hadron Exchange Non- Relativistic Model for K^+ p Potential
	Wasinton Simanjuntak	Sumardi	Endah Yuliani	Dedi Darwis	Hamzah Fadhlurahman
	BIOGASOLINE PRODUCTION BY ZEOLITE-A CATALYZED CO- PYROLYSIS OF TORREFIED CASSAVA ROOT AND PALM OIL	Isolation and characterization of mercury-resistance for ammonia-oxidizing bacteria from mangrove sediment, hanura lampung beach	A Two-Dimensional Map Derived From An Ordinary Difference Equation of mKdV and Its Properties	Comparison of Least Significant Bit, Pixel Value Differencing and Modulus Function on Steganography to Measure Image Quality, Storage Capacity and Robustness	Nonrelativistic One-Hadron- Exchange K-P Interaction Model

		Gesa Gustami Pangesti	Budayatin	Miftahul Irfan	Favorisen R. Lumbanraja, Ph.D	Donni Kis Apriyanto
	Synthesis of Zeolite-Y from Rice Husk Silica and Food Grade Aluminium Foil Using Modified Hydrothermal Method	Antibacterial effects of Pheretima javanica Extract and bioactive chemical analysis using Gas Chromatography Mass Spectrum	Survival Analysis Using Cox Proportional Hazard Regression Approach in Dengue Hemorrhagic Fever (DHF) Case in Abdul Moeloek Hospital Bandar Lampung in 2019	Abstract Classification Using Support Vector Machine Algorithm (Case Study: Abstract in a Computer Science Journal)	Design of modulated infrared laser as a radiation source of portable photoacoustic spectroscopy	
		Dr. Noviany, S.Si., M.Si	Ria iswandari	Almira Rizka Putri	Anie Rose Irawati	Dr. rer. nat. Roniyus Marjunus,
15		Structure Elucidation of Betulinic Acid from Sesbania grandiflora Root	Inhibitory Study Of Cassava Leather Ethanol Extract As Natural Antimicrobial In Reducing Salmonella Sp. And Escherichia Coli On Contamination Chicken Meat (Gallus Domesticus)	Application of Vector Autoregressive	IT Model and Design for Village Government in compliance with the Smart Village Concept (Case Study: Pekon Wonodadi)	Simulation of NO2 work function- based sensor signal on ZnO
		Ulfiatun Nurul Faidah	Dr. Endah Setyaningrum, M.Biomed	Luvita Loves	Heni Sulistiani	Humairoh Ratu Ayu
		Zeolite H-Mordenite (H-MOR) based on bagasse ash silica as a catalyst for the hydrolysis reaction of cassava peel cellulose for glucose production	Larvacide for Maiaria Vector Control	Modeling Multivariate Time Series by Vector Error Correction Models (VECM)	Implementation of Various Artificial Intelligence Approach for Prediction and Recommendation of Personality Disorder Patient	Deep Learning for Detection Cassava Leaf Disease
				Rusliyawati A Fuzzy Expert System Design for Diagnosis of Prostate Cancer		

RUNDOWN 3rd ICASMI 2020, 4 September 2020

Time	Duration	Aci	vity	Р	IC		
07.30 am	30 mins	Registration		TIM IT, Acara	dan sekretariat		
08.00 am	10 mins	Opening	session	MC: Savira A	nanda Pritania		
	Plenary Session 2						
08.10 am	75 mins	Keynote Speaker 5: Prof. Dr. Harith Bin Ahmad Keynote Speaker 6: Prof. Ivandini Tribidasari A Keynote Spekaer 7: Prof. Dr. John Hendri, M.S		Moderator: Dr. rer. n	at. Roniyus Marjunus		
09.25 am	10 mins	Photo S	Session	MC: Savira A	nanda Pritania		
		Parallel 9	Session 2				
	Parallel Room 1	Parallel Room 2	Parallel Room 3	Parallel Room 4	Parallel Room 5		
	Chemistry	Biology	Mathematics	Computer_Sciences	Chemistry		
Time	Moderator : Dr. Nurhasanah	Moderator: Dr. G. Nugroho Susanto, M.Sc.	Moderator : Dr. Khoirin Nisa	Moderator: Anie Rose Irawati, M. Cs.	Moderator: Ayu Humairoh, M.Si		
	Herliana	A A S A SUkmaningsih K	Nourma Indryani		Dewi Shinta		
	Transesterification of coconut oil (Cocos nucifera L.) into biodiesel using zeolite-A catalyst based on rice husk silica and aluminum foil	Effect of Duwet fruit (Syzgium cumini) extract on MDA level and Caspase 3 expression in Rat (Rattus sp)Testes exposed to cigarette smoke	Dynamic Modeling Data Return by Using Bekk-Garch (Study: PT. Indofarma Tbk (INAF) and PT.Kimia Farma Tbk(KAEF) from June 2015 to July 2020)		Synthesis of TiO2 nanowires with molten-salt method and effect of metal addition on its characteristics and application for reduction of 4-nitrophenol		
	Tika Dwi Febriyanti	SRI WIDAWATI	Siti Ulfa Nabila		Dillani Putri Ramadhaningtyas		
09.45-10.20	Pyrolitic Conversion of Palm Oil into Using Protonated Zeolite-X Prepared from Rice Husk Silica and Aluminum Foil as Catalyst	Bacterial support as a biostimulant agent (BPNIII, Azzofor) for marginal soil fertility and stimulating seedlings growth in nursery	Dynamic Modeling Data Time Series by Using CCC-GARCH		Development of an LC-MS/MS method for simultaneous determination of aflatoxins in nutmeg		
	Arif Nurhidayat, S.Si	Ummi Hiras Habisukan	Salsa Nursabila Winarno		Retno Ariadi Lusiana		
	Isolation and Identification of Endophytic Fungi Associated with Indonesian Sesbania grandiflora Plant	Antioxidant and Antimicrobial Activity of Endophytyc Fungi Isolated from Syzygium aqueum Leaves	Application of Vector Error Correction Model (VECM) and Impulse Response Function for Indonesia Plantation Stock Prices Data Analysis		The effect of temperature during casting process for Polyvynilidone Fluoride membrane and its derivative		

	Dr. Sonny Widiarto, M.Sc.	Khusnul Khotimah	Drs. Nusyirwan, M.Si.	Yosi Aristiawan
	STUDY OF PHENOL TRANSPORT USING POLYMER INCLUSION MEMBRANE (PIM) METHOD WITH COPOLY(EUGENOL-DIVINYL BENZENE) AS CARRIER	Analysis of the Effect of Different Types of Coffee Shade on Robusta Coffee Productivity	Gamma and Lognormal Models in the Generalized Linear Model Perspective	Simultaneous Analysis of Benzoic Acid, Methylparaben, and Butylparaben in Soy Sauce by Liquid Chromatography: Method Validation and Uncertainty Evaluation
	llim	Sholekhah	Lies Maria Hamzah	Ilma Fauziah Ma'ruf
10.20-10.55	The effect of initiator concentrations on corrosion inhibition activity of polymeric derivatives of 2-vinylpyridin	Analysis of Total Carbohydrate and Chlorophyll Content of The Orchid Plantlet [Phalaenopsis amabilis (L.) BI.] Resistant Fusarium Wilt Disease	MODELING AND FORECASTING DATA FARMER'S TERM OF TRADE	Cloning, Heterologous Expression and Purification of Serine Hydroxymethyltransferase from thermophilic bacteria Pseudoxantomonas taiwanensis AL89
	Dr. Sonny Widiarto, S.Si., M.Sc.	Nurul Komaria	Agus Irawan	Andreas
	Crosslinking effects of borate additives on the structure and properties of sago starch - polyvinyl alcohol blend films	The Effect of Fermentation on Acidity, Caffeine and Taste Cascara Robusta Coffee	The Locating-Chromatic Number of Certain Barbell Origami Graphs	SYNTHESIS AND CHARACTERIZATION OF MAGNETIC MOLECULARLY IMPRINTED POLYMERS FOR PRACONCENTRATION OF BISPHENOL A
	Prof. Dr. Tati Suhartati	Mahfut	D.E. Nurvazly	Rinawati
	Identification and activity test of flavonoid compounds from wood branches of the pudau plant (Artocarpus kemando Miq.) as antibacterial	Identification of Against Virus Infection on Native Orchid in Liwa Botanical Garden	Quantitative Method For Analysis of Non-Performing Financing Return: A Case Study on Assets of PT. BSM	Preparation of Magnetic Activated Carbon from Cassava Peel for Removal of Tetracycline Antibiotic in Aquatic Environment
	Prof. Dr. Yandri	Zehra Tekin	Erica Grace Simanjuntak	Diska Indah Alista
10.55-11.30	Production, purification and characterization of the α-amylase from local bacteria isolate Bacillus subtilis ITBCCB148	Solvent extraction effects on Phytochemical Constituents and Antioxidant Activities of Buds of Punica granatum L. grown in Adıyaman- Turkey	Asymptotically Unbiased, Efficient, and Consistent Properties of the Bayes estimator in the Binomial Distribution with Prior Beta	NiO/ZSM-5 catalyzed transesterification of rubber seed oil with methanol
	Yurika Witazora	Lati Fiari Putri	Teguh Susilo	Syaiful Bahri
	Effect of glutaraldehyde addition on the stability of the α-amylase from Bacillus subtilis ITBCCB148	Application of Xylanolytic Fungi Inoculum of Aspergillus Tubingensis R. Mossery In Bamboo Litter (Bambusa Sp.) Composting	Characteristics of Bayes Estimator in the Geometric Distribution with Prior Beta	ISOLATION AND CHARACTERIZATION OF BIOACTIVE COMPOUNDS OF MANGROVE Avicennia marina ENDOFIT MUSHROOM IN THE BAY OF LAMPUNG

	No. 24 co. 2	E. de la la Martina de	O'ala B'ala A a la a a a'	D N A
	Nopitasari Synthesis, characterization, and antioxidant activity of some organotin(IV) 2-nitrobenzoate using the 2,2-diphenyl-1-picryl-hydrazyl (DPPH) method	Endang L. Widiastuti ANTICANCER POTENCY OF JERUJU LEAF (Acanthus ilicifolius) AND SEAGRASS (Enhalus acoroides) METHANOL EXTRACT AND TAURIN IN CELL CULTURE OF HELA CERVICAL CANCER	Siska Diah Ayu Larasati Robust Principal Component Trimmed Clustering of Indonesian Provinces Based on Human Development Index Indicators	Devi Nur Anisa Synthesis of Curcumin Analogs Under Ultrasound Irradiation
	Prof. Dr. Sutopo Hadi, M.Sc.	Budi Khoiri Ardiansyah	Bernadhita Herindri S. Utami	Dwi May Indriyani
13.30-14.05	Synthesis, characterization and the antifungal activity test of some organotin(IV) benzoates	Antidiabetic Potency of Jeruju (Acanthus ilicifolius L.) Ethanol Extract and Taurine on Histopathological Response of Mice Kidney (Mus musculus L.) Induced by Alloxan	SUB-EXACT SEQUENCE ON HILBERT SPACE	CHARACTERIZATION OF MESOPHILIC LIPASE ENZYME FROM COMPOST ISOLATE BACTERIA
	Kamisah Delilawati Pandiangan	Dewi Wahyuni K.Baderan	Fadila Cahya Puri	Syaiful Bahri
	The use of MgO/SiO2 as catalyst for transesterification of rubber seed oil with different alcohols	Density of Gastropod in the Biluhu Timur Coastal Region of Gorontalo, Indonesia	The Formula to Count The Number of Vertex Labeled Connected Order Six Graphs with Maximum Thirty Edges without Loops and May Contain at Most Fifteen Parallel Edges	Isolation and Identification of Terpenoid Compound from Vetiver Grass-Root (Vetiveria zizanioides Stapf) as a Repellent against Termite (Cyrptotermes sp.) through Bioactivity Assay
	Ulfiatun Nurul Faidah	Yuliana Retnowati; Abubakar Sidik Katili	Desiana Putri	Yuli Ambarwati
	Utilization of zeolite H-MOR based on bagasse ash silica as a catalyst for the hydrolysis reaction of cassava peel cellulose for glucose production	Molecular characterization of fermentative bacteria on Local Microorganisms of Pomacea canaliculata	Determining the Number of Disconnected Vertices Labeled Graphs of Order Six with the Maximum Number Ten Parallel Edges and Containing No Loops	Docking Interaction of Chromium(III) Picolinate and Chromate Ion Compounds with Protein Tyrosine Phosphatase as Insulin Receptors
	Rudy Situmeang	Susi Mufida Hasanah Effect of immersion time in extract	Sifriyani Real time epidemic modeling using	Mulyono
14.05-14.40	The effect of Vanadium dopant on Bandgap Energy of Ni1-xVxFe2O4 nanospinel	gonad of sea urchin on masculinization of betta fish (Betta sp)	Real time epidemic modeling using Richard's model: application for the Covid-19 outbreak in East Kalimantan, Indonesia	Biodegradation of Agricultural Residues Containing High Cellulose by Local Isolate Fungi
	Hapin Afriyani	Nyoman Rolly Kurniawan	Rima Nugrahiya Putri	Nurhasanah
	Virtual Screening of Active Ligands from Natural Compounds as Anti- Asthma Candidates using PAF-r Protocol and Rupatidine as Lead Compound	Effect different doses of extract gonad of sea urchin on masculinization of betta fish (Betta sp)	Modeling Autoregressive Integrated Moving Average (ARIMA) and Forecasting of PT Unilever Indonesia Tbk Share Prices During the COVID- 19 Pandemic Period	Characterization of Selected Lipolytic Bacteria from Domestic Waste Composting Process

	Nadia Rizky Putri Hapsari	Ahmad Faisol		Yuli Ambarwati
	The Potency of Cinnamon as An Anti-		erty	SYNTHESIS OF Cr(ASPARTATE)3
	Diabetic and Anti-Covid19 based on	of Generalized Power Series		AND Cu(ASPARTATE)2
	Its Mineral Content and Phenolic	Modules by Using X-Sub-Exac	i	COMPLEXES AS ANTIDIABETIC
	Compounds	Sequence		COMPOUNDS
	Dian Herasari	Ficka Agnes Pratiwi		Ni Luh Gede Ratna Juliasih
		Calculating the Number of vertice		
	Dynamics of Lid lipMNK on	Labeled Order Six Disconnected	=	Fractination of Fucoxantin from
	Lys229Gln Mutation by Molecular	Graphs which Contain Maximu		Cyclotella striata using Medium
14.40-15.15	Dynamics Simulation Approach	Seven Loops and Even Number		Performance Liquid Chromatography
	Dynamics officiation Approach	Nonloop Edges Without Parall	·I	(MPLC)
		Edges		
	Heri Satria	Eri Setiawan		Dinah Ade Mulyasari
	Simultaneous Bioconversion of Rice			Preparation of Watermelon
	Straw into Intermediate Product	A Structural Equation Modeling	of	Mesocarp Powder (Citrullus lanatus
	using Ionic Liquid and Native	Factors Affecting Student Motiva		Thunb.) with Freeze Drying Method
	Extracellular Hydrolytic Enzyme from	in Thesis Preparation	1011	and Test its Potensial as Anti Obesity
	Indigenous Actinomycetes	iii Thesis i Teparation		and Anti COVID-19.
	indigenous Actinomycetes			and And COVID-19.
		Lies Maria Hamzah		Nadia Rizky Putri Hapsari
15.15-15.40		MODELING AND FORCESTIN	₂	The Potency of Cinnamon as An Anti-
		DATA TIME SERIES		Diabetic and Anti-Covid19 based on
		DATA TIME SERIES		Its Mineral Content and Phenolic

note: yellow highlight is poster presenter



CERTIFICATE

No. 3856/UN.26.17/DL.07.00/2020

The organizing committee certifies that

Dr. Eng. Heri Satria, M.Si.

has contributed as

ORAL PRESENTER

at

Virtual International Conference The 3rd International Conference on Applied Sciences, Mathematics, and Informatics (ICASMI)

"Natural Science, Mathematics, and Informatics in Industrial Revolution (IR) 4.0 toward The Sustainable Development Goals (SDGs)"

Held by Faculty of Mathematics and Natural Sciences, University of Lampung September 3rd – 4th, 2020, Bandar Lampung, Indonesia



Dr. Eng. Suripto Dwi Yuwono, S.Si., M.T. Dean



Prof. Dr. Rudy TM Situmeang, M.Sc. Chairman