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**Analysis of leaf chlorophyll content of paddy plants during vegetative stage grown in soil media containing macroalgae organic fertilizer**

as

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of the paper entitled:

**N S H Kurniawan, I A P Kirana, A S Abidin, A Jupri, S Widyastuti, A Hernawan, A Nikmatullah, H Sunarpi, E S Prasedya**

in the 4<sup>th</sup> International Conference on Bioscience and Biotechnology (ICBB) 2021  
"Natural Resources Management and Utilization" 21<sup>st</sup>- 23<sup>rd</sup> September 2021

Rector University of Mataram

Director of Pascasarjana, University of Mataram

Chairman of ICBB 2021



**Prof. Dr. Lalu Husni, S.H., M.Hum.**  
NIP. 196212311988031010



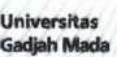
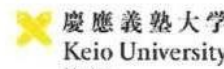
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NIP. 196204061987031002



**Eka Sunarwidhi Prasedya, S.Si., M.Sc., Ph.D.**  
NIP. 198803302014041001

Organized by Pusat Unggulan Biosains dan Bioteknologi and Pascasarjana University of Mataram

In collaboration with :



# ICBB 2021

The 4th International Conference on  
Bioscience and Biotechnology

Collaboration between Pusat Unggulan Biosains dan Bioteknologi  
(PUBB) and Postgraduate Studies University of Mataram

“Natural Resources Management and Utilization”  
16-18th August 2021

Call For  
Papers



## BACKGROUND

The utilization of natural resource is sometimes deemed ineffective in contributing to the welfare of the people. This topic is quite urgent because it is in line with state policies in maintaining economic stability. For this reason, a Seminar entitled “NATURAL RESOURCES MANAGEMENT AND UTILIZATION” will be held, so that it may become a medium for bringing together academics as well as disseminating various research results on the use of natural resources to support economic resilience.

## KEYNOTE SPEAKERS

## OPENING SPEECH



Prof. Dr. Lalu Husni, S.H., M.Hum  
Rector of University of Mataram, Indonesia



Prof. Mat Vanderklift, Ph.D  
Indian Ocean Marine Research Centre  
CSIRO, Australia



Prof. Dr. Endang Semiarti,  
M.S., M.Sc.  
Dept. of Tropical Biology  
Universitas Gadjah Mada, Indonesia



Prof. Lim Phaik Eem, Ph.D  
Institute of Ocean and Earth Sciences  
University of Malaya, Malaysia



Prof. Julian Heyes, Ph.D  
Food and Advanced Technology  
Massey University, New Zealand



Assoc.Prof. Kato  
Yasuhiro, Ph.D  
Dept. of Pharmacology  
Keio University, Japan



Assoc.Prof. Dr. Rapeeporn  
Ruangchuay  
Faculty of Science and Technology  
Prince of Songkla University, Thailand



Prof. Bambang Hari Kusumo,  
M.Agr.St., Ph.D  
Dept. of Soil Science  
University of Mataram, Indonesia



Eka Sunarwidhi  
Prasedya, Ph.D.  
Bioscience And Biotechnology  
Research Center Universitas of Mataram



Dr. rer.nat. Andri  
Frediansyah, M.Sc.  
Res. Div. for Natural Product  
Technology LIPI, Indonesia

## IMPORTANT DATES :

Registration : 15th August 2021

Abstract Submission : 10th August 2021

<https://forms.gle/RGovUFTwjvgkXo2t7>

Full Paper : 25th August 2021

Send Abstract to : [icbb2021@unram.ac.id](mailto:icbb2021@unram.ac.id)

## SUB TOPIC

1. Natural resources utilization in agriculture
2. Natural resources utilization for food
3. Medicinal plants for disease prevention and treatment
4. Marine natural resources and their sustainable utilization
5. Natural resources conservation and management

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Participant	100.000 IDR (7 USD)
Presenter	250.000 IDR (20 USD)
Student / non presenter	75.000 IDR (6 USD)
IOP scopus indexed proceedings	2.500.000 IDR (200 USD)
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**Preface: Proceedings of the 4<sup>th</sup> International Conference on Bioscience and Biotechnology (4<sup>th</sup> ICBB 2021), 21<sup>st</sup>-23<sup>rd</sup> September 2021.**

Eka Sunarwidhi Prasedya, S.Si., M.Sc., Ph.D.

*Chairman of 4th ICBB 2021*

This issue of IOP conference proceedings contains papers presented at the 4<sup>th</sup> International Conference on Bioscience and Biotechnology (ICBB) 2021. The ICBB is an annual international conference since 2018 that was initiated by Prof Ir H Sunarpi PhD. This year we are lucky to collaborate with Postgraduate-studies (Pascasarjana) University of Mataram thanks to the director Prof. Ir. H Muhamad Sarjan, M.Agr.,C.P. Ph.D and vice director Prof. Ir. Bambang Hari Kusumo, M.Agr.St., Ph.D. This meeting is hosted by Lab of Bioscience and Biotechnology Research, University of Mataram, Indonesia. It is held for three days, from 21 to 23 September 2021 by virtual conference with zoom platform due to COVID-19 pandemic.

Interactive online presentations were arranged through Zoom Video Communications for the participants to present their ideas. The conference was divided into two main sessions: Main session for Keynote speakers and Panel Sessions for participants. A time of 30 minutes was given for Keynote speakers to present their fabulous work. For panel session, 10 minutes were given for participants to share their research and findings. A total of 204 participants (180 presenters and 24 non-presenters) from Universities, Research Institutes and also Government Departments joined the conference. All the selected papers were peer reviewed by expert reviewers in a double blind review system as per the review policy given by IOP Conference Series.

On the first day of the conference (21<sup>st</sup> September) invited talks were presented by Prof. Julian Heyes, Ph.D. from Massey University New Zealand on "*Deriving value from elite indigenous fruit and vegetable species*", Prof. Bambang Hari Kusumo, M.Agr.St., Ph.D. from University of Mataram on "*Rapid measurement of soil carbon using near infrared technology*" and Prof. Dr. Endang Semiarti, M.S., M.Sc. from Universitas Gadjah Mada Indonesia on "*Biotechnology approach to improve the quality and quantity of orchids as potential agricultural commodities in Indonesia*". The second day of the conference presented talks by Prof. Lim Phaik Eem, Ph.D. from University of Malaya on "*Importance of marine habitat conservation for utilization and discovery of new bioresources of seaweeds*", Prof. Mat Vanderklift, Ph.D. from Indian Ocean Marine Research Centre CSIRO Australia on "*Opportunities for sustainable use of coastal ecosystems*", Assoc.Prof. Dr. Rapeeporn Ruangchuay from Prince of Songkla University Thailand on "*Seaweed resources in Thailand: cultivation and utilization*" and Dr.rer.nat. Andri Frediansyah, M.Sc. from LIPI Indonesia on "*Microbial natural products: a discovery strategy*". The final day of the conference included talks by Prof. Akihiro Hazama, Ph.D. from Fukushima Medical University on "*Investigation of cigarette smoke-induced cell hyperplasia mechanism using Induced Pluripotent Stem Cell (IPSCs)*", Prof. Kato Yasuhiro, Ph.D. from Keio University Japan on "*Water circulation of the earth and life*" and Eka Sunarwidhi Prasedya, Ph.D. from University of Mataram Indonesia on "*Microbiome implications for bioprospecting of seaweeds*".

Our special gratitude also goes to the Rector of Mataram University for the support given to this conference. Also, we are thankful for the enormous support of IOP conference proceedings for supporting us in every step.

*Editor-in-Chief, ICBB2021*

**Eka Sunarwidhi Prasedya, Ph.D.**

*Associate Editors, ICBB2021*

**Apt. Anggit L. Sunarwidhi, M.Sc., Ph.D.**

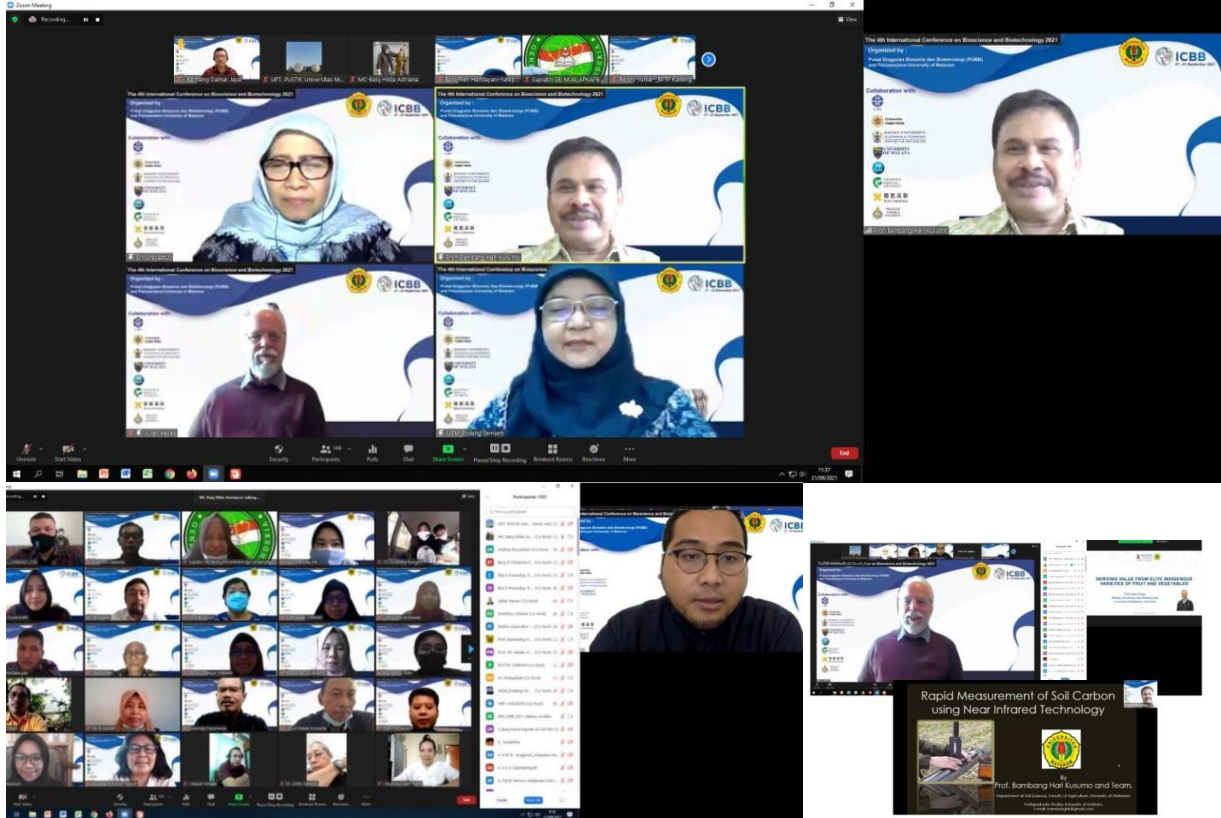
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**Mutia Devi Ariyana, S.Si., M.P.**



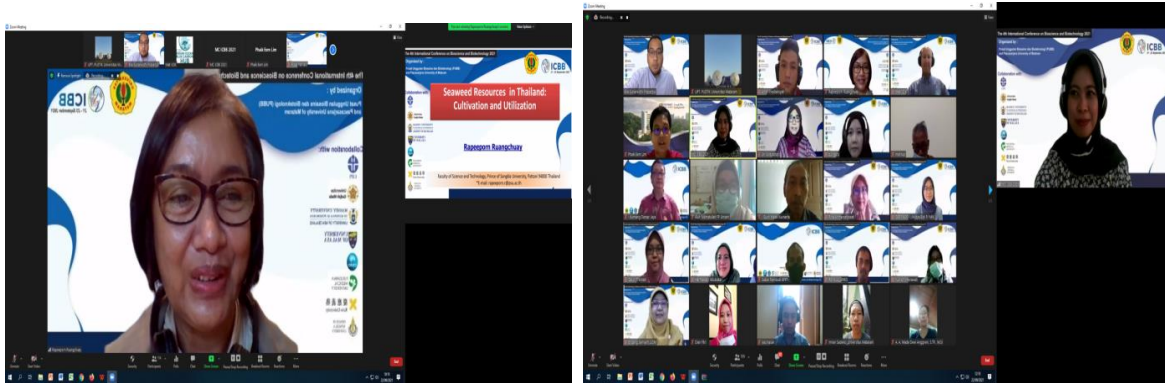
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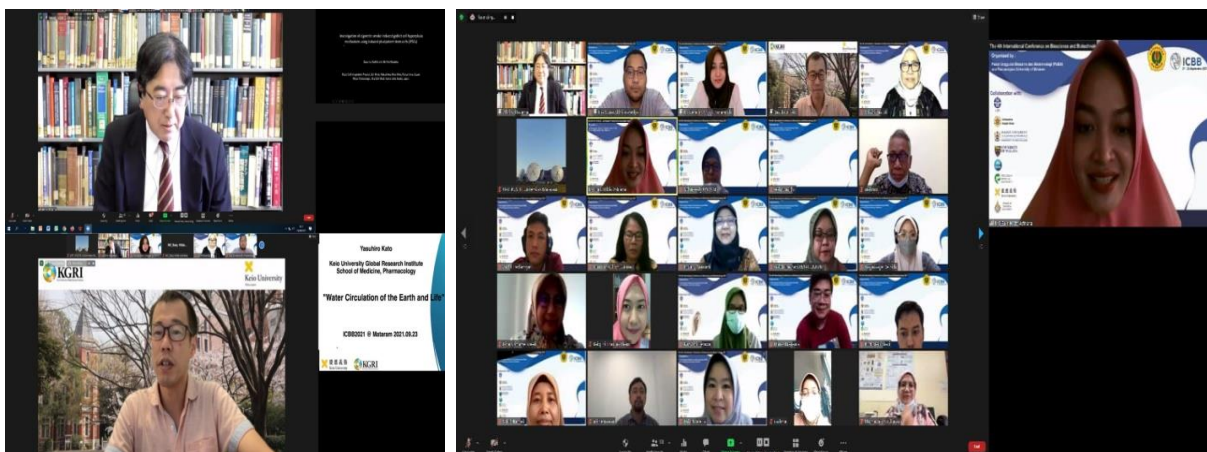


#### Day 2





Day 3



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Accepted papers received: 01 November 2021

Published online: 02 December 2021

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## Preface

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Preface: Proceedings of the 4<sup>th</sup> International Conference on Bioscience and Biotechnology (4<sup>th</sup> ICBB 2021), 21<sup>st</sup>-23<sup>rd</sup> September 2021.

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## Natural Resources in Agriculture

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Application of manures reduces inorganic fertilizers requirement for maize grown in a sandy soil

G A A P Kreshnadhi, I K D Jaya, B B Santoso, W Wangiyana and H Suheri

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Soil chemical characteristics and yield of red rice under aerobic irrigation system as affected by intercropping with peanut and application of organic wastes on permanent raised-beds

I G M Kusnarta, D Rahmadhanti, N W D Dulur and W Wangiyana

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**OPEN ACCESS** The effect of organic waste application on some soil physical properties, growth and

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yield of red rice between conventional and aerobic irrigation system on raised-beds

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Optimization of curcumin temulawak (*Curcuma xanthorrhiza* Roxb.) on calcareous marginal land under teak

P K Sholihah, E Nihayati and A S Karyawati

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Yield performance of several promising lines of black rice as affected by application of mycorrhiza biofertilizer and additive intercropping with soybean under aerobic irrigation system on raised-beds

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Enhancement of antioxidant activity of kencur rhizome in the shade by potassium fertilizer

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012007

Analysis on rhizome shrinkage of two expected *kencur* (*Kaempferia galanga*) accessions from east java using MgSO<sub>4</sub> fertilizer under shading

R Kurniawan, A R Dalilah, M D Ridwan, A Saitama, A H Zaini, E Widaryanto and K P Wicaksono

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Effect of Intercropping on Mycorrhizal Populations, Growth, and Yield on Several Varieties of Maize (*Zea mays* L.) and Soybeans [*Glycine max* (L.) Merr.] in Dryland North Lombok, Indonesia

W Astiko, N M L Ernawati and I P Silawibawa

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Attack intensity of pest in the vegetative phase of Atlantic potato variety in three different altitudes

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Solar-powered IoT based smart hydroponic nutrition management system using FARM

W. Wedashwara, A. H. Jatmika, A. Zubaidi and I. W. A. Arimbawa

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The *Rhizobium* and calcium fertilizer application to peanut plant in dry land

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**OPEN ACCESS** 012012

Development stages of soybean varieties against pod sucking pest *Riptortus linearis* F. (Hemiptera: Alydidae) under two different cultivation technologies

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Growth response of diploid and tetraploid taro (*Colocasia esculenta* (L.) Schott) shoot culture to drought stress using polyethylene glycol

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Analyses of organic matter and heavy metal composition in formulated macroalgae-based organic fertilizer

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Analysis of leaf chlorophyll content of paddy plants during vegetative stage grown in soil media containing macroalgae organic fertilizer

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## Natural Resources Utilization in Food

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Multi-response optimization of cellulose fiber isolation from tapioca solid waste and its characteristics

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Effect of antimicrobial addition from lime extract on edible film as food packaging

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Analysis of supply chain and added value of rice in west Lombok regency

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Yogurt As A Functional Drink Development From Various Local Raw Materials Using *Eucheuma Spinosum* As Natural Stabilizer

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Analysis of heat energy in the drying process of *Moringa Oleifera* leaves using a greenhouse effect dryer (ERK)


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Optimization Process to Increase the Quality of Lombok Porang Flour

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Analysis of Heat Energy on the Drying Process of Paddy Using Fluidized Beds Dryer

S Syahrul, S Sukmawaty, A Priyati, J Sari and M Mirmanto

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A generalization SPARQL federated query: An initial step towards machine-readable web of data for halal food products

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Isolation and selection of amylase-producing microbes isolated from *ragi tape* and cassava *tape* available on the markets

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Evaluation antioxidant capacity and proximate composition in brown seaweed *S. crassifolium* found in Lombok coast, Indonesia

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The effect of fermentation with lactic acid bacteria to chemical and sensory characteristics of Sumbawa's Buffalo Jerky

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## Natural Resources Conservation and Management

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Dietary niche breadth of endemic and introduced anurans (Amphibia: Anura) in Lombok, Lesser Sunda Islands– Indonesia

Y Zamroni, IGN Septian, NT Artiningrum and I Hadi

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The improvement of molluscs population: as a parameter of success of local scale mangrove conservation on the south coast of Lombok

Agil Al Idrus, Baiq Nunung Hidayati, Erna Ajizah, Wahyu Bintang Ilahi and Abdul Syukur

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G N De Side, A Widiyanti, G T Rancak, R Aprianto, I A Widhiantari and I B Sutawijaya

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The future of Wallace region in Lombok: the pristine natural resource under climatic and anthropogenic threat

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The Evidence of Seagrass Environmental Support for Local People's Economic on the South Coast of Lombok Island

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The sustainability of the diversity of marine macrofauna associated with seagrass through ecotourism in The Mandalika Exclusive Economic Zone Lombok Island, Indonesia

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Optimization of physical characteristics of bioplastics from agricultural waste using response surface methodology (RSM)

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Identification and Abundance of Macroalgae at Batu Layar Coast, West Lombok, Indonesia

I A P Kirana, N S H Kurniawan, A S Abidin, A Nikmatullah, A L Sunarwidhi, A Jupri, A Hernawan, S Widyastuti, H Sunarpi and E S Prasedya

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Species diversity of birds as bioindicators for mangroves damage at Special Economic

Zones (SEZ) Mandalika in Central of Lombok, Indonesia

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Optimization of annealing temperature for amplification of *EhoscnOla* locus in pranajiwa (*Euchresta horsfieldii*) plant collected from mountains, urban and coastal areas in Bali

D Silalahi, I G P Wirawan and M M V Sasadara

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Bioethanol-Producing Yeast Isolated from Fermented Cocoa

A. Thontowi, A.P. Ramadhan, H. Saputra, L.N. Kholida, Fahrurrozi, A.P.D. Nurhayati and S. Nurhatika

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Radio-sensitivity of irradiated seed, plantlets, callus, and *in vitro* leaves from *Indigofera zollingeriana* Miq by gamma rays

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Evaluation of *Apium graveolens* from different geographical origins based on TLC-fingerprint and chemometrics

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Isolation of trymiristin from *Myristica fragrans* for natural product chemistry laboratory

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Pipette Tip Solid-Phase Extraction Combined with Fluorescence Spectroscopy for Determination of Selenium in Green Tea Samples

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Potential and phylogenetic of superior bacterial isolates in biogas sludge from anaerobic digestion of palm oil mill effluent

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*In vitro* culture of *Dendrobium lineale* Rolfe orchid for plant breeding and propagation

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Microalgae Isolation found in Kedonganan beach, Badung Bali, Indonesia

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Tannin Concentration of Gyrinops Tea Taken Form Different Agarwood Plantation and Different Processing Method

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Optimization of primer and polymerase chain reaction conditions to amplify COI locus for identification of Purnajiwa (*Euchresta horsfieldii* (Lesch.) Benn.) collected from Bedugul, Bali

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Long-term Storage of Bacterial Isolates by Using Tryptic Soy Broth with 15% Glycerol in The Deep Freezer (-70 to -80 °C)

Sunarno, S Nursofiah, Y Hartoyo, N Amalia, T Febrianti, D Febriyana, R D Saraswati, N Puspandari,

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Effect of medium type, light intensity, and photoperiod on the growth rate of microalgae *Chlorococcum sp.* local isolate

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*In Vitro* screening of ammonia and nitrite-degrading bacteria isolated from broiler chicken (*Gallus gallus domesticus*) intestines and pond sediment of Nile tilapia (*Oreochromis niloticus*): A preliminary study

K Anwar, R Safitri, N Fajriani, Z A Gifari, I W Wariata, A Rosyidi, M Amin and M Ali

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Optimization of chlorophyll extraction solvent of bulung sangu (*Gracilaria* sp.) seaweed

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Analysis of bioactive compounds present in *Kaempferia galanga* rhizome collected from different regions of East Java, Indonesia

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Bioactivity of Neem Seed Oil mixed with Pyroligneous Acid from Rice Husks against *Spodoptera litura*

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Exploring the phytochemical and antioxidant potential of *Hylocereus polyrhizus* peel extract using biochemical approach

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Measurement of macroalgae total carbohydrate content found in Lendang Luar coast, Lombok, Indonesia for potential sources of bioethanol

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Microplastics and bioaccumulation in edible tissues of flying fish (*Panama coladocetus*) from the Bantar Purnama fish market, Lombok, Indonesia



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Newborn calf serum supplemented by tellurite as alternative transport medium for *Corynebacterium diphtheriae*

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The administration's effect of domestic soybean, lablab bean and lima bean content of genistein to improve the productivity of Bali cattle

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Humoral and cellular immunity in mice immunized with whole recombinant yeast expressing complex NS2B/NS3 protein of dengue serotype 3

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The potential of jamu to relieve clinical symptoms and reduce the tumor size of patients with Fibro Adenoma Mammae (FAM) at Rumah Riset Jamu (RRJ) Hortus Medicus Tawangmangu : a pilot study

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Antioxidative Activity of *Tithonia Diversifolia* Extract in Streptozotocin-Induced Diabetic Rats.

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The effect of herbal formula consisting of *Curcuma xanthorrhiza*, *Curcuma longa* and *Phyllanthus niruri* on quality of life: Randomized controlled trial

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Efficacy of hepatoprotector jamu formula (combination of *Curcuma longa*, *Curcuma xanthorrhiza*, and *Taraxacum officinale*) compared to *Fructus schizandrae* extract in mild liver injury: a randomized controlled trial

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In vitro analysis of human immune response (IgG) against salivary gland extract of dengue vector from dengue hemorrhagic fever (DHF) endemic area in Jember, Indonesia

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The effect of ethanol extract of pasak bumi (*Eurycoma longifolia* Jack.) on neurogenesis and neuroinflammation of rat post protein malnutrition

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The effectivities of anti-diabetic of *Chromolaena odorata* L. in lowering blood sugar level: A systematic review

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In vitro antioxidant activity of meniran (*Phyllanthus urinaria*) functional drink in human low density lipoprotein (LDL)

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Factors associated with the attitude of herbs utilization among diabetes mellitus patients

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Species shifting composition of the Anopheles vector in Wongsorejo district - Banyuwangi, Indonesia

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Medicinal plants used by traditional healers for hemorrhoid treatment in Borneo island: Ethnopharmacological study RISTOJA

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Phytochemical profiles and ethnomedicine preliminary studies on seagrass species in the Southern Coast of Lombok Island Indonesia

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The correlation between total protein content and antioxidant activity of collagen isolated from a marine sponge *Stylissa flabelliformis* collected from North Lombok Indonesia coastA L Sunarwidhi, A Rosyantari, E S Prasedya, N Ardiana, B T K Ilhami, A S Abidin, Y Ambana, I A P Kirana, D G Wirasisya, W Anugrah *et al*[+ Open abstract](#) [View article](#) [PDF](#)

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The effect of extraction solvent polarity on cytotoxic properties of *Sargassum crassifolium* against B16-F10 melanoma cancer cell model

N W R Martyasari, N Ardiana, B T K Ilhami, H Padmi, AS Abidin, A L Sunarwidhi, H Sunarpi, A Nikmatullah, S Widyastuti and E S Prasedya

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Total Phenolic Content (TPC), Total Flavonoid Content (TFC) and Antioxidants Activity of Marine Sponge *Stylissa flabelliformis* Ethanol Extract

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Larvacide effectiveness of Papaya leaf extract (*Carica papaya*) on the mortality of larvae vector of Dengue hemorrhagic fever caused by *Aedes aegypti*

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