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A Hernawan, S Widyastuti, H Sunarpi, E S Prasedya**

as  
**Oral Presenter**  
of the paper entitled:

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

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

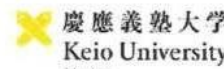


**Prof. Ir. Muhammad Sarjan, M.Agr.CP., Ph.D.**  
NIP. 196204061987031002



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

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# 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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## Conference fee

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.**

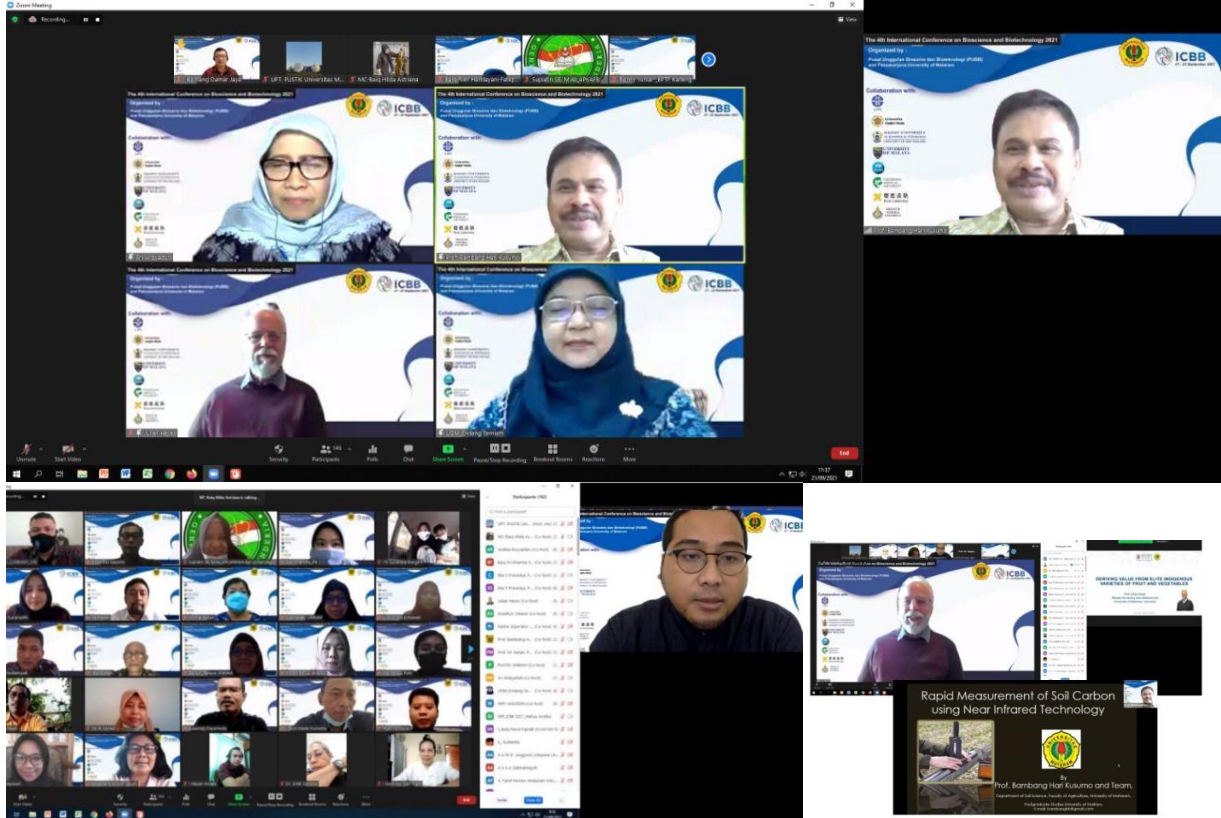
**Novita Hidayatun Nufus, S.Si., M.P.**

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



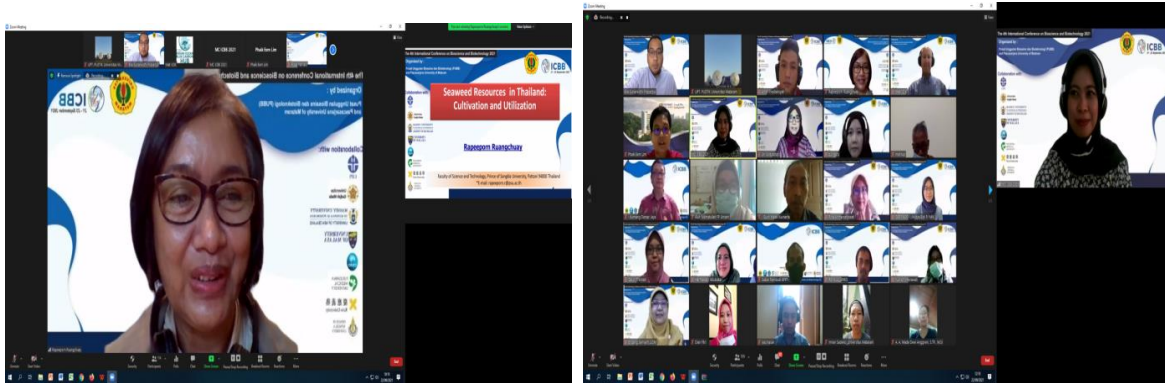
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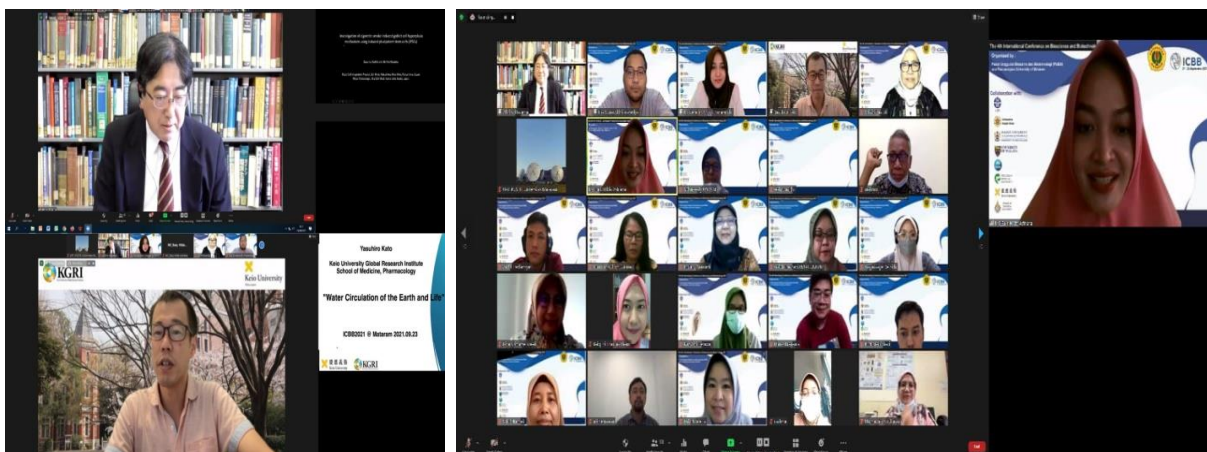


#### Day 2





Day 3



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2021

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Accepted papers received: 01 November 2021

Published online: 02 December 2021

Open all abstracts

## 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 Kreshnathi, I K D Jaya, B B Santoso, W Wangiyana and H Suheri

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**OPEN ACCESS** 012002


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

012003 



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

I G M Kusnarta, A Mawaddah, N W D Dulur and W Wangiyana

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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

F Zaini, AR R Friska, D M Mustika, S Y Tyasmoro, A Saitama, A H Zaini and E Widaryanto

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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

A Farid Hemon and Sumarjan

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

Tantawizal, M Sarjan, B Supeno, B A Patu and B N Hidayah

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The relationship of the morphological characteristics of some varieties of soybean on the attack intensity of the pod borer (*Etiella zinckenella* Treitschke) in two different cultivation techniques

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Economic and environmental studies of conservation agriculture on dryland in Central Lombok, Indonesia

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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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Crop selection in dryland of North Lombok Regency: farmers search for more money and less risk

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Utilization of oil palm empty fruit bunches biomass through slow pyrolysis process

D E Rahayu, N Karnaningroem, A Altway and A Slamet

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Foliar Organic Fertilizer Enhanced Growth, Yield and Carotenoid Content of Carrot Plants (*Daucus carota* L.) Cultivated in the Lowland

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Agronomic response of kangkung plants typical of Lombok Island with a hydroponic system treated with *Trichoderma* bionutrients

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Screening of plant growth-promoting bacterial endophytes and rhizobacteria isolated from *Curcuma xanthorrhiza*

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Intensity of pest attack and yield of potato plant during offseason in Sajang Village, Sembalun District, West Lombok

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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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A M M Napitupulu, L Suhendra and I B W Gunam

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Formulation of Indonesian traditional functional drink wedang empon based on Zingiberaceae rhizomes mixed with fruits

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

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Production of bioethanol from wild cassava crude starch (*Manihot glaziovii* Muell. Arg) using different microbial types and fermentation times

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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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Heat transfer analysis in fluidized bed dryer with heat exchanger pipe for corn material

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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

I B W Gunam, I G A Sujana, I M M Wijaya, Y Setiyo, I W W P Putra and L Suriati

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

N Ardiana, A S Abidin, B T K Ilhami, A L Sunarwidhi, S Widyastuti, H Sunarpi and E S Prasedya

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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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Tuber and Organoleptic Characteristics of Four Potato Varieties Grown Off-season in Sajang Village, Sembalun

I Nairfana, A Nikmatullah, M Sarjan and Kisman

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## Natural Resources Conservation and Management

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Rat and Mice Species (Sub Family : Murinae) Diversity from East Lombok Indonesia

I Hadi, Y Zamroni, G Tresnani, Y M Afrizal and I W Suana

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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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Correlation analysis of leachate in final disposal sites on groundwater and surface water quality

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

Mahrup, M Ma'shum, MH Idris and Fahrudin

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The effectiveness of the new PLN mobile application in improving service quality, customer satisfaction, and electrifying lifestyle during the new normal period in Tanjung pandan city

M H Kusuma and S E Rahim

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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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Local scale climate change mitigation through mangrove revegetation on the south coast of Lombok island

A A Idrus, A Syukur, L H N Zohri, Zulhalifah and J Aulia

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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

L Zulkifli, L R Patech, A Lestari, F Fidiantara, A A Idrus and A Syukur

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Analysis of water condition in Dodokan watershed, Lombok, Indonesia

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

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Limits of acceptable change for sustainable management of the Pelawan Biodiversity Park, Bangka Belitung Islands

M R B Boentoro, Kisworo and T Wherrett

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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 *EhoscenOla* locus in pranajiwa (*Euchresta horsfieldii*) plant collected from mountains, urban and coastal areas in Bali

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

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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 Kedongan 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)

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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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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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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 (*Panaxcoelacanthus*) from the Bantar Pahlawan 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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Humoral and cellular immunity in mice immunized with whole recombinant yeast expressing complex NS2B/NS3 protein of dengue serotype 3

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

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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 correlation between total protein content and antioxidant activity of collagen isolated from a marine sponge *Stylissa flabelliformis* collected from North Lombok Indonesia coast

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