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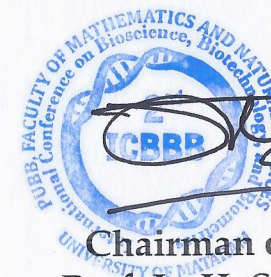
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Preface: Proceedings of the 2nd International Conference on Bioscience, Biotechnology, and Biometrics 2019 (ICBBB2019)

All Praises to God Almighty for giving us the health, welfare, and opportunity so that we all can meet in **The 2nd International Conference on Bioscience, Biotechnology and Biometrics (ICBBB) 2019**". This meeting is hosted by Lab of Bioscience and Biotechnology Research, University of Mataram, Indonesia which is supported and funded by the Indonesia Ministry of Higher Education and Research (KEMENRISTEK-DIKTI). It is held for two days, from 13th to 14th August 2019 in Aruna Resort and Convention, Senggigi, Lombok.

In this international forum, we are glad to welcome speakers from various universities/institutions in Indonesia and also other countries such as New Zealand, Japan, Germany, UK, and Malaysia. We hope this event could provide insights on our future research and development of Indonesia in the field of Bioscience, Biotechnology and Biometrics. The papers in this proceeding has been selected and grouped based on the similarity in the research field which are, agriculture, bioscience, health and food science.

The organizing committee would like to express our gratitude to all of you for your participation on this conference, especially to the all keynote speakers, presenters who have submitted for both oral and posters presentations and also to all participants. Our special gratitude also goes to the Rector of Mataram University, Fukushima Medical University Japan, University of Malaya Malaysia, Massey University New Zealand, Third Institute of Oceanography China, Universitas Gajah Mada, Indonesia University and Malaysia Science Academic who have been highly supporting this conference. Critics and suggestions on the implementation of this conference will be appreciated and as much as possible we will improve the next ICBBB. We also would like to thank the all of you who have supported this conference. Also, the whole committee of ICBBB2019, without of all you this event would not be possible. Last but not least, we are thankful for the enormous support of AIP conference for supporting us in every step.

Edited by:

Eka Sunarwidhi Prasedya, Ph.D.
Ni Wayan Riyani Martyasari, S.Farm.

Prof. Ir. H. Sunarpi, PhD
Chairman of 2nd ICBBB 2019
sunarpi@unram.ac.id

Proceedings of the 2nd International Conference on Bioscience, Biotechnology, and Biometrics 2019

Lombok, Indonesia • 13–14 August 2019

Editors • Eka Sunarwidhi Prasedya
and Ni Wayan Riyani Martyasari





THE 2nd INTERNATIONAL CONFERENCE ON BIOSCIENCE, BIOTECHNOLOGY, AND BIOMETRICS FOR SUSTAINABLE AGRICULTURE, HEALTHY FOOD, AND NUTRITION



KEYNOTE SPEAKERS



Prof. Dr. Budi Seriadi Daryono, M.Agr.Sc.
Gadjah Mada University, Indonesia



Prof. Wisnu Jatmiko, Dr. Eng.
University of Indonesia, Indonesia



Prof. Julian Heyes, Ph.D.
Massey University, New Zealand



Prof. Guangceng Chen, Ph.D.
Third Institute of Oceanography, China



Prof. Akidiro Hazama, MD, Ph.D.
Fukushima Medical University, Japan



Prof. Jun-seok Hwang, Ph.D.
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SUB TOPICS

The 2nd ICBBB 2019 Annual Conference will focus on research in scopes of Bioscience, Biotechnology, and Biometrics for development of sustainable agriculture for ending hunger and promotion of healthy food and nutrition.

- Agriculture
- Food and Health Science
- Marine Science
- Biometrics

IMPORTANT DATES

| | |
|-----------------------|-------------------|
| Abstract submission | 29 July 2019 |
| Abstract announcement | 31 July 2019 |
| Registration | 2 August 2019 |
| Full paper submission | 21 August 2019 |
| Conference | 13-14 August 2019 |
| Tour/Fieldtrip | 15 August 2019 |

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Drying behaviour of fermented Fijian *Theobroma cacao* using dehumidified air

Rupantri Raju, Julian Heyes, Richard Archer and Qun Chen

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The kinetics of enzymes that involved in cassava fermentation produce by co-culture starter of two lactic acid bacteria

Andri Frediansyah, Muhammad Kurniadi, Nurul Noviandi Nahdia Putri and Eka Sunarwidhi Prasedya

AIP Conference Proceedings **2199**, 020002 (2019); <https://doi.org/10.1063/1.5141280>[BROWSE VOLUMES](#)

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Antioxidant activity of *Ulva lactuca* L. from different coastal locations of Lombok Island, Indonesia

Eka Sunarwidhi Prasedya, Ni Wayan Riyani Martyasari, Rizkia Apriani, Sipti Mayshara, Rizka Azzahral Fanani and Haji Sunarpi

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Detection of Candidatus *Liberibacter asiaticus* in the relatively new area of citrus plantation (*Citrus spp.*) in the absent of insect vector *Diaphorina citri* Kuw in Taro Village, Gianyar, Bali, Indonesia

I. Gede Putu Wirawan, Putu Alita Dewi, I. Nyoman Wijaya and Wayan Adiartayasa

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CONTRIBUTED ORAL PAPERS Biometrics

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The application of mathematical model drying of galangal (*Alpinagalanga* L.) using hybrid dryer equipment with rotary type of rack

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Logistic model of abalon's length growth in Sekotong, West Lombok

Marliadi Susanto, Mamika Ujjanita Romdhini, Siti Raudhatul Kamali and Laya Zurfani

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Remote monitoring systems in greenhouse based on NodeMCU ESP8266 microcontroller and Android

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Sequential fuzzy association rule mining algorithm for plants environment classification using internet of things

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Rice-husk biochar for better yield of lowland rainfed rice in Lombok, Indonesia

Lia Hadiawati, Titin Sugianti and Yanti Triguna



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Photosynthate accumulation and distribution on soybean crop during vegetative and generative phases influenced by phosphor and organic fertilizers

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Effect of two different planting patterns on performance of four maize varieties under rainfed conditions

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The effect of grain mass variations on drying time by adding a pipe heat exchanger to a fluidized bed dryer

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Comparative antioxidant activity of *Brucea javanica* (L) Merr seed extract derived from maceration and soxhletation method

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The proposed mechanism of action of *Brucea javanica* (L) Merr seed in experimentally diabetic rats

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The effect of expired bread supplementation in local sheep rations on rumen fermentability and digestibility value *in vitro*

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Growth and yield of rice plants grown in media containing several formulations of brown algae organic fertilizer

Anggit Listyacahyani Sunarwidhi, Sonia Ardilla Pebriani, Ni Wayan Riyani Martyasari, Eka Sunarwidhi Prasedya and Haji Sunarpi

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Effect of inorganic fertilizer and brown alga solid extract on growth and yield of rice plants

Haji Sunarpi, Sonia Ardilla Pebriani, Yogi Ambana, Fadhillah Eka Putri, Aluh Nikmatullah, Mursal Ghazali, Rina Kurnianingsih and Eka Sunarwidhi Prasedya

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Effect of solid and liquid extract of *Sargassum crassifolium* on growth and yield of rice plant

Eka S. Prasedya, B. A. F. D. Geraldine, N. N. N. Putri, A. S. Abidin, A. Jupri and H. Sunarpi

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The use of brown algae extract to extend shelf life and improve post harvest quality of tomato fruit

Sri Widyastuti, Brigitta A. F. D. Geraldine, Anggit Listyacahyani Sunarwidhi, Mutia Devi Ariyana, Eka Sunarwidhi Prasedya and Haji Sunarpi

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Growth and yield of rice plants sprayed with *Sargassum polycystum* extracted with different of concentration

Ahmad Jupri, Rizka Azzahral Fanani, Sundari Maulinda Syafitri, Sipti Mayshara, Nurijawati, Sonia Ardilla Pebriani and Haji Sunarpi

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The evidence suggesting that *Turbinaria murayana* extract induce remobilization of macromolecule from leave to grain of rice plants



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Preparation and characterization of self-nanoemulsifying drug delivery system (SNEDDS) from *Moringa oleifera* L. and *Cassia alata* L. leaves extracts

Suryani, Wa Ode Sitti Zubaydah, Muhammad Handoyo Sahumena, Siti Adawia, Ririn Wahyuni, Andi Nafisah Tendri Adjeng, Michrun Nisa, Henny Kasmawati, Sunandar Ihsan, Ruslin and Muhammad Aswan

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Tannin concentrations of Gyronops tea with different leaf processing methods and addition of herbal medicine ingredients

I. Gde Adi Suryawan Wangiyana, Sawaludin, Wahyu Yuniati Nizar and Wayan Wangiyana

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Coral *Echinoporalamellosa* hosts multiple clades of symbionts in Western Alas Strait, Indonesia

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