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ACKNOWLEDGEMENTS

The committee of the The fourth International Conference on Biological Sciences and Biotechnology (ICBSB 2018) would like to express our gratitude to Universitas Sumatera Utara (USU) and Biology Department USU and PT Shafera Enviro Laboratory for supporting us through financial aids to this conference. We also would like to sincere thanks to the honorable keynote speakers: Dr. Abraham Kabutey from Dept of Mechanical Engineering, Czech University, Prof. Dr. Hunsu Punnapayak, from Dept of Botany, Chulalongkorn University, Bangkok, Thailand. Dr. Intan Zarina Zainol Abidin, from School of Biosciences and Biotechnology, University Kebangsaan Malaysia. Prof. Toshiki Uchiumi, PhD, from Graduate School of Science and Engineering, Kagoshima University, Japan. In addition, we would like to express our gratitudes to all participants and presenters across disciplines in the field of Environmental Biology, Biomedical Sciences, Microbiology and Biotechnology. Plants and Animal Biosciences for their participations and efforts to join this conference as well as to everyone which we definitely cannot mention one by one that supported the process from the beginning until the end of the conference. Finally, we are looking forward for your participation in the next ICBSB.

Warmest Regards,

Chairman





Rinaldi Sjahril <rinaldi.sjahril@gmail.com>

[ICBSB] Submission Acknowledgement

ICBSB Committee <ocs@usu.ac.id>

Sat, Nov 17, 2018 at 5:14 PM

To: "Ph.D. Rinaldi Sjahril" <rinaldi.sjahril@gmail.com>

Ph.D. Rinaldi Sjahril:

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Tue, Nov 27, 2018 at 10:23 PM

Ph.D. Rinaldi Sjahril:

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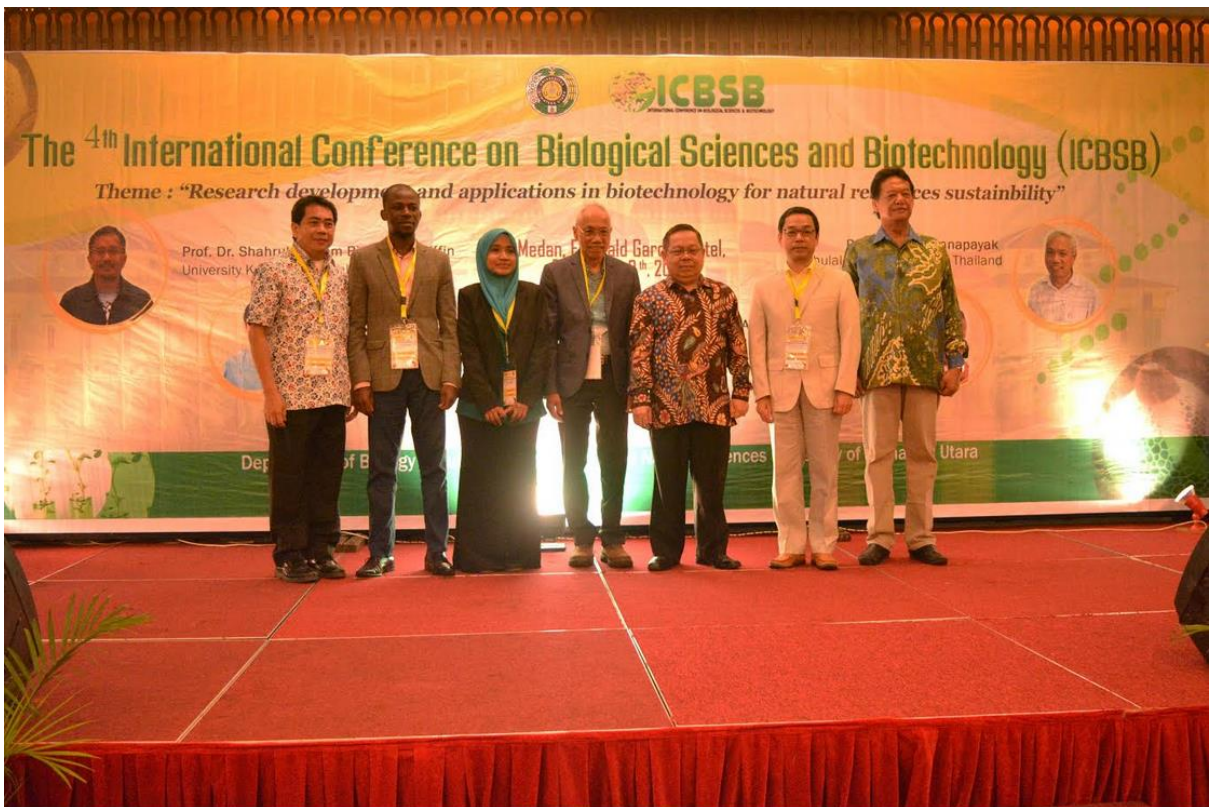
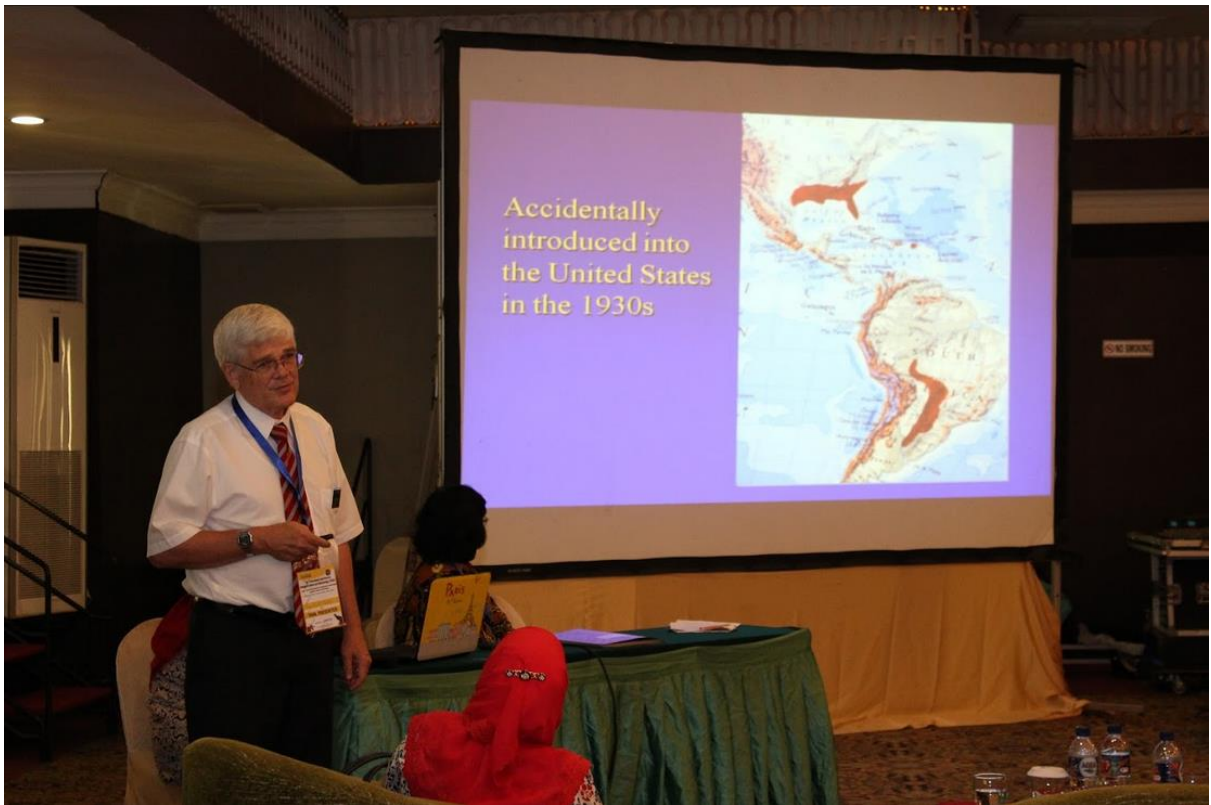
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The 4th International Conference on Biological Sciences and Biotechnology (ICBSB)
Theme : *"Research development and applications in biotechnology for natural resources sustainability"*
Held on Emerald Garden Hotel, Medan - December 8th, 2018




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The Effect of Argon and Carbon Ion After Heavy Ion Beam Irradiation of Toraja Local Rice

S Rinaldi¹, M Riadi², Rafiuddin³, AR Trisnawaty⁴, M M Putra⁴, A M Okasa⁵ and S Kannapadang⁴

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IOP Conference Series: Earth and Environmental Science, Volume 305, The 4th International Conference on Biological Sciences and Biotechnology 8–9 December 2018, Medan, North Sumatera, Indonesia

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S Rinaldi *et al* 2019 *IOP Conf. Ser.: Earth Environ. Sci.* **305** 012055

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Abstract

Red rice is not popular to be cultivated extensively by farmers because of long harvest period, which takes between 6 to 7 months before harvested. Therefore, there is a need to create a diversity of morphological characters, as the character for selection, especially related to the time of harvest. One method is through breeding mutation by irradiation using ion beam. The aim of this study is to evaluate

early maturing lines after irradiation using ion beam in Toraja local rice. The experiment was conducted at Gowa and Enrekang Regency, South Sulawesi using Red local Toraja rice variety (Pare Lea) treated with ion beam irradiation of Argon ion (10 Gy) and Carbon (150 Gy). The result showed that Carbon ion irradiation treatment produced a higher number of mutants than argon ion irradiation at both locations. Secondly, carbon ion has a greater number of frequencies in the criteria of early maturing compared to Argon ion and harvesting day of red rice in the highlands is comparatively still longer than in the lowlands.

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*Theme : "Research development and
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Submission

Authors	Rinaldi Sjahril, Muh. Riadi, Rafiuddin Syam, Trisnawaty AR, Muh. Mukhtadir Putra, Andi Muliarni Okasa, Sepsriyanti Kannapadang
Title	The Effect of Argon And Carbon Ion After Heavy Ion Beam Irradiation of Toraja Local Rice
Original file	7836-14912-1-SM.DOCX 2018-11-17
Supp. files	None
Submitter	Ph.D. Rinaldi Sjahril
Date submitted	November 17, 2018 - 04:14 PM
Track	Plant and Animal Bioscience

VENUE



Emerald Garden Hotel (4 star hotel)
Jl. KL Yos Sudarso No.1, Silalas,
Medan Bar., Kota Medan, Sumatera
Utara 20235

Selected papers will be
published on IOP Conference
Series: Earth and Environmental
Sciences indexed by Scopus

Director ICBSB Committee (Director)

Abstract Views 0

Status

Status Paper In Review

Initiated 2018-11-17

Last modified 2018-11-28

Submission Metadata

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Previous selected papers for Proceeding in the 3th ICBSB 2017, published in IOP Conference Series: Earth and Environmental Science Volume 130 can be seen [here](#)

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IMPORTANT DATES (DEADLINES)

Payment Completion

30th November 2018

Paper Submission

25th November 2018

27th November 2018

Early Bird Period

20th October 2018

Conference Day

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Nomor : 4765/UN4.10/KP.05.00/2018

D a r i : Dekan Fakultas Universitas Hasanuddin

Kepada :
Nama : Ir. Rinaldi Sjahrir, M.Agr. Ph.D
NIP : 19660925 199412 1 001

I s i : 1. Bahwa dalam rangka Seminar 4th International Conference Biological Sciences and Biotechnologi (ICBSB) Universitas Sumatera Utara Medan yang dilaksanakan pada tanggal 7-9 Desember 2018 di Medan. Maka untuk kepentingan dinas perlu diterbitkan Surat Penugasan Dekan.
2. Maka dari itu, menugaskan yang disebut namanya di atas untuk menghadiri acara tersebut.
3. Surat penugasan ini berlaku mulai tanggal 7 Desember 2018, sampai selesainya kegiatan tersebut dengan ketentuan bahwa apabila di kemudian hari terdapat kekeliruan di dalamnya maka akan diadakan perbaikan sebagaimana mestinya.

Makassar, 3 Desember 2018

Dekan,



Prof. Dr.sc.Agr. Ir. Baharuddin

NIP. 19601224 198601 1 001

Tembusan:

1. Wakil Dekan
2. Kepala Bagian Tata Usaha
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Sri Pratiwi Aritonang, Ernitha Panjaitan and Petrus Parsaulian Tondang

On behalf of the committee of The fourth International Conference on Biological Sciences and Biotechnology (ICBSB) 2018, conducted by Biology Department, Faculty of Mathematics and Natural Sciences, Sumatera Utara University. To each and everyone of you, we are pleased to extend a most cordial welcome in Medan. The fourth ICBSB 2018 is attended by 145 participants from 17 universities or Institutes, they are consisted of 140 participant from 13 universities in Indonesia, 4 universities from abroad, and 1 partipant from United State Department of Agriculture (USDA), Agricultural Research Service, USA. I would like to take this opportunity to express my sincere thanks to the our honorable keynote speakers from abroad who have come and share they knowledge to us today:

1. Dr. Abraham Kabutey, from Dept of Mechanical Engineering, Czech University
2. Prof. Dr. Hunsa Punnapayak, from Dept of Botany, Chulalongkorn University, Bangkok, Thailand
3. Dr. Intan Zarina Zainol Abidin, from School of Biosciences and Biotechnology, University Kebangsaan Malaysia
4. Prof. Toshiki Uchiumi, PhD, from Graduate School of Science and Engineering, Kagoshima University, Japan.

To all committee members, I would like to express my gratitude to all of you who so generously helped us makes this event come smoothly, we could not have done it without you. I sincere hope all of participants will enjoy today and networking in the next.

As The fourth ICBSB 2018 has agreement to IOP, the peer-review of manuscripts will still proceed after this conference. The reviewed and accepted paper will be published in IOP Conference Series: Earth and Environmental Sciences.

Through this conference, the committee facilitate, hoping each participant get exchange experiences.

Finally, I wish you have a pleasant stay in Medan.

Thanks for your very kind attention.

Warmest regards,

Dr. Kiki Nurtjahja, M.Sc.
Chairman of the ICBSB 2018

