

Judul Artikel: Effect of Growth Regulators on Cell Growth and Flavonoid Production in Cell Culture of *Elaeocarpus grandiflorus*, Penulis: Noor Aini Habibah^{1*}, Nugrahaningsih WH2, Y. Ulung Anggraito¹, Khoirul Mukhtar¹, Nur Wijayanti¹, Fajar Mustafa¹, Yosa Rostriana¹, Nama Seminar/Konferensi/Simposium: Annual Conference on Environmental Science, Society and its Application, Penyelenggara Seminar/Konferensi/Simposium: UNSOED, Waktu Pelaksanaan Seminar/Konferensi/Simposium: 5–7 August 2019, ISBN/ISSN: 17551307, 17551315

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*Penulis 2/7 Sesuai bidang keilmuan Bahasa dan sistematika tulisan baik, IMRADC ada dan jelas, unsur kelengkapan sesuai kaidah ilmiah Informatif mengenai efek regulator pertumbuhan pada pertumbuhan kultur sel *E grandiflorus* Terbitan prosiding internasional terindeks Scopus dengan SI 20%. **dimohon melampirkan cover, &ndaftar; isi belum bisa dinilai***

Yth Penilai PAK
Jabatan Fungsional

Artikel berjudul Effect of Growth Regulators on Cell Growth and Flavonoid Production in Cell Culture of *Elaeocarpus grandifloras* dipresentasikan pada The 10th International Conference on Global Resource Conservation (ICGRC) yang diselenggarakan oleh Universitas Brawijaya Bersama KOB I pada tanggal 4-5 September 2019, namun publikasi artikel ini dilakukan bersama dengan artikel dari Annual Conference on Environmental Science, Society and its Application yang diselenggarakan oleh Unsoed pada tanggal 5-7 Agustus 2019 melalui IOP Conference series.

Berikut kami lampirkan cover dan daftar isi dari ICGRC yang memuat daftar artikel (BOT/O-021 hal 45)

ABSTRACT BOOK



ICGRC

Santika
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Malang
September
4 - 5,
2019

THE 10th INTERNATIONAL
CONFERENCE ON GLOBAL
RESOURCE CONSERVATION

*“Biodiversity
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TABLE OF CONTENTS

FOREWORD	ii
TABLE OF CONTENTS	iii
CONFERENCE SCHEDULE	xiv
FLOOR PLAN	xvi
PARALLEL PRESENTATION SCHEDULE	xvii
KEYNOTE SPEAKERS	1
Divine Sustainable Bio-economy	2
Biodiversity conservation towards successful inclusion : An Indian perspective	4
Ecosystem Services and Sustainability on Islands, Republic of Korea	6
Grasses : An Important Underutilized Natural Resource for Sustainable Bioeconomy	9
Exploring Philippine Caves as Potential Sources of Bioactive Compounds	11
The concept of Biodiversity on Indonesian Traditional medicine of JAMU	12
INVITED SPEAKERS	13
Ethanol Extract of <i>Marsilea crenata</i> Leaves and Its Effects on Sperm Quality and Histology of The Testes of <i>Rattus norvegicus</i>	14
Effects of functional foods on thermotolerance of the nematode <i>Caenorhabditis elegans</i>	15
Diversity of Bioactive Secondary Metabolites Produced by Medicinal Plants Ciplukan (<i>Physalis Angulata L.</i>)	16
Water Quality Evaluation of Some Beach With Variations of Human Activities and Land Use In Spermonde Islands of Makassar South Sulawesi	17
The Effectiveness Of Banana Tuber And Goat Rumen As Bio-Activator Of Liquid Biopesticide Fertilizers	19
Integration of Traditional Knowledge With Modern Science For Conservation of Medicinal Plants In India	20
Evaluation Of Yeast Diversity In Dadih And Dangke Using <i>pcr-Rflp</i> Of Internal Transcribed Spacer Region	22
SYMPOSIUMS	24
BOTANY (BOT)	25

BOT/O-001	Sporophyte Formation Of <i>Cibotium Barometz</i> At Various Concentrations Of Kno_3	26
BOT/O-003	Modelling <i>Casuarina Junghuhniana</i> Dispersal In Tengger Sea of Sands Of Bromo Tengger Semeru National Park Using Cellular Automata	27
BOT/O-004	ETHNOBOTANY OF JONGGOL PLANTS (ERECTITES VALERIANIFOLIA WOLF.) BY COMMUNITIES IN TRADITIONAL MARKETS IN MALANG CITY AND DETECTION OF ITS CHEMICAL COMPOUNDS	29
BOT/O-005	The Effect of Explants and Growth Regulators on Callus Induction of Geranium (<i>Pelargonium Graveolens</i> L'her) In Vitro	30
BOT/O-006	Characterization dan Genetic Variability of Rambutan (<i>Nephelium Lappaceum</i> L) Based on Morphological Characteristics in Pekanbaru, Riau	31
BOT/O-007	Character Selection by Path and Principal Component Analysis for Enhanced Seed Size and Yield in Local Castor Bean (<i>Ricinus Communis</i> L.).....	32
BOT/O-008	Morphological and Cytological Response of Bambara Groundnut (<i>Vigna Subterranea</i> (L.) Verdcourt) by Colchicine Polyploidization	33
BOT/O-009	Beeswax Formulation and Wrapping Effects on Physical Characteristics of Red Garifta Mango Variety	34
BOT/O-010	LC-MS Analysis of Carbohydrate Components in Porang Tubers (<i>Amorphophallus Muelleri</i> Blume) from the Second and Third Growth Period	35
BOT/O-011	The Effect of Cutting The Bulbil-Porang (<i>Amorphophallus Muelleri</i>) on Its Germination Ability	36
BOT/O-012	STUDY on The Profile of Capsanthin-Capsurobin Synthase (Ccs) Gene Responsible for Carotenoid Synthesis in Chili Pepper (<i>Capsicum Frutescens</i> L.) Mutants G1m6 M2 Generation	37
BOT/O-013	Isolation of Constituents that Inhibit Nitric Oxide Production from <i>The Angelica Dahurica</i> Root.....	38
BOT/O-014	The Effect of The Rhizome of <i>Cyperus Rotundus</i> on Nitric Oxide Production in Rat Hepatocytes	39

BOT/O-016	Habitat Characteristic of <i>Taxus Sumatrana</i> (Miquel) De Laub in The Kerinci Seblat National Park.....	40
BOT/O-017	Species Composition in The Habitat of <i>Dipterocarpus Gracilis</i> Ulolanang Nature Reserve	41
BOT/O-018	Lime (<i>Citrus Aurantifolia</i>) Peel Effect on Peroxide Value of Cooking Oil.....	42
BOT/O-019	Leveraging Local Wisdom on Plants to Unlock The Green Economy Potential of Flores	43
BOT/O-020	COMPARISON of Organosulfur Bioactive Compounds in Bulb, Callus and Cells Suspension of Single Garlic (<i>Allium Sativum</i> . L)	44
BOT/O-021	Effect of Growth Regulators on Cell Growth and Flavonoid Production in Cell Culture Of <i>Elaeocarpus Grandiflorus</i>	45
BOT/O-022	Standardization of Some Indonesian Medicinal Plants Used in “Scientific Jamu”.....	46
BOT/O-023	Characterization of Peanut Stripe Virus from West Nusa Tenggara.....	48
BOT/O-024	Potential of Etnozoology in Traditional Treatment of Ethnic Bada in Lore Lindu Biosphere Reserves Central Sulawesi.....	49
BOT/O-025	Molecular Docking Studies of Alkaloid from Sanrego (<i>Lunasia Amara Blanco</i>) as Antidiabetes Through Alpha Amylase Inhibitor.....	50
BOT/O-026	Improvement of Herbal Research With Bioinformatics in Pharmacy Student Faculty of Pharmacy University of Surabaya	51
BOT/O-027	Comparative Study of Leaf Stomata Profiles AMONG Different Genomic Groups of Banana (<i>Musa L.</i>)	53
BOT/O-028	Diversity and Population Structure Pea (<i>Pisum Sativum L.</i>) Landrace Based on Morphological Data for Indigenous Biodiversity Conservation and Breeding in Indonesia	54
ZOOLOGY (ZLG).....		55
ZLG/O-001	Comparison Between Indonesian Local Ettawah Goats Derived from Natural Service and Artificial Insemination Based on Repeated T-Nucleotide	56

Effect of Growth Regulators on Cell Growth and Flavonoid Production in Cell Culture of *Elaeocarpus grandiflorus*

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ABSTRACT

Elaeocarpus grandiflorus has the potential to be developed as a source of bioactive compounds. This study aims to obtain the most optimal medium for cell culture induction and flavonoid production in *Elaeocarpus grandiflorus* culture. Picloram (3.5, 5 and 7.5 ppm) and 2,4-D (1.5, 2.5 and 3.5 ppm) were used for induction of cell suspension culture. Cell suspension culture induction was observed through growth parameters (fresh and dry weight of cells) and cell suspension formation. In addition, it was observed the production of flavonoids. Induction of cell culture is done by growing callus on Woody Plant Medium (WPM) with a variety of growth regulators. The culture was maintained in a shaker at a speed of 120 rpm for 30 days. At harvest, cells were filtered, weighed and dried. Spectrophotometer was used to determine the total flavonoid content. Quercetin was used as a standard compound. The best cell culture induction was obtained in cells maintained in WPM medium with the addition of 2,4-D 2.5 ppm. All cells in various treatment media can produce flavonoids with varying concentrations. WPM medium with the addition of 2,4 D and Picloram can be used for the production of flavonoids from *Elaeocarpus grandiflorus* cells. **Keywords :** *Elaeocarpus grandiflorus*, cell culture, 2,4D, picloram, flavonoid production



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August 7, 2019

LETTER OF ACCEPTANCE

Dear **Dr. Noor Aini Habibah, M.Si**,

On behalf of the committee, we are pleased to confirm that your abstract,

**Effect of Growth Regulators on Cell Growth and Flavonoid Production in Cell Culture
of *Elaeocarpus grandiflorus***

has been accepted, with editorial decision:

Accepted for Oral Presentation

at *The 10th International Conference on Global Resource Conservation*.

Please note that, in order for the abstract to be included in the conference program, presenters are required to complete the registration process and payment.

Your presentation is an important part of the conference, and we are looking forward to meet you at the conference.

Sincerely,

Irfan Mustafa, Ph.D.
Conference chairperson
