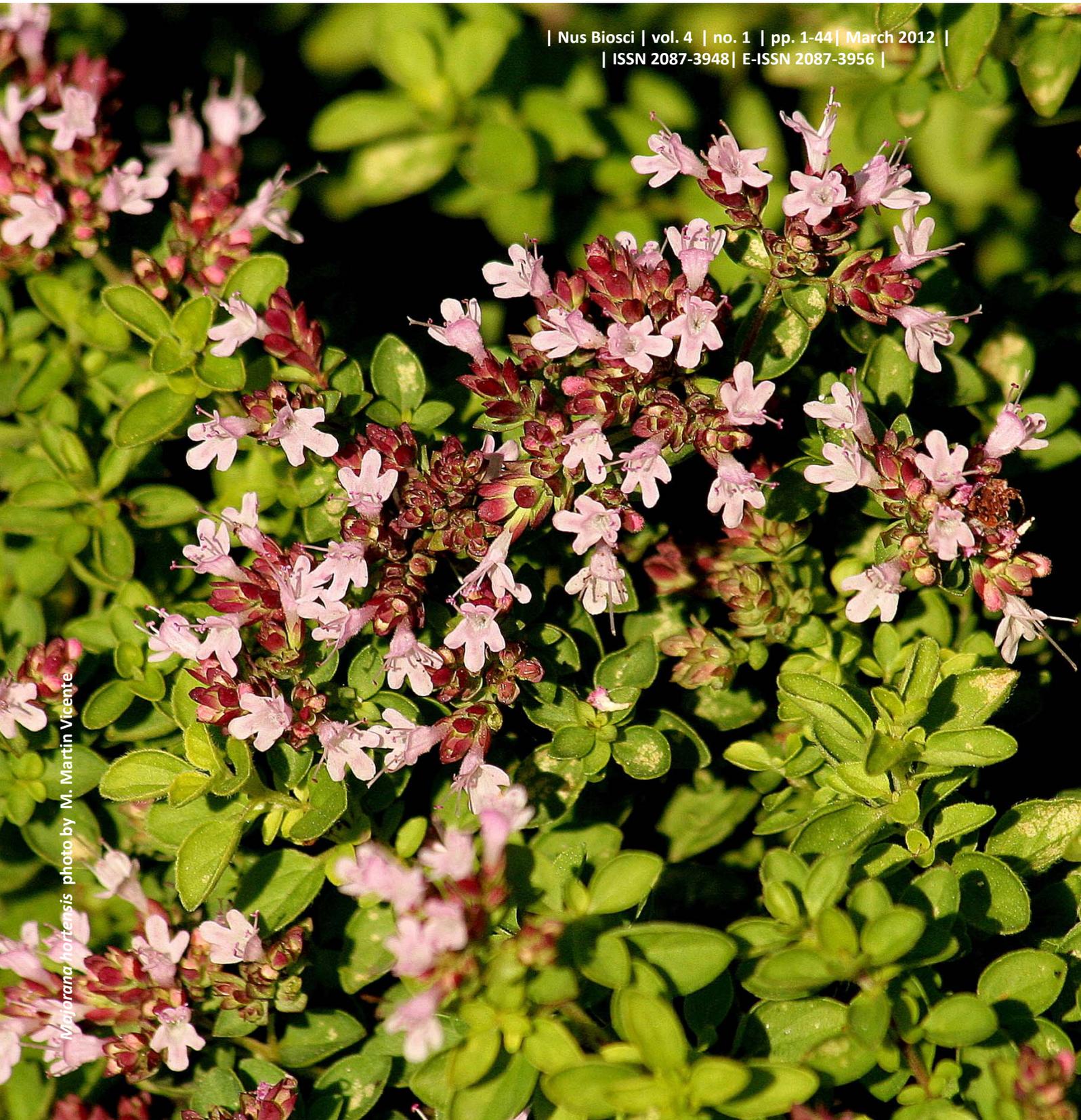


NUSANTARA BIOSCIENCE

ISEA JOURNAL OF BIOLOGICAL SCIENCES

| Nus Biosci | vol. 4 | no. 1 | pp. 1-44 | March 2012 |
| ISSN 2087-3948 | E-ISSN 2087-3956 |



Majorana hortensis photo by M. Martin Vicente

EDITORIAL BOARD:

Editor-in-Chief, **Sugiyarto**, Sebelas Maret University Surakarta, Indonesia (sugiyarto_ys@yahoo.com)
Deputy Editor-in-Chief, **Joko R. Witono**, Bogor Botanical Garden, Indonesian Institute of Sciences, Bogor, Indonesia (jrwitono@yahoo.com)

Editorial Advisory Boards:

Agriculture, **Muhammad Sarjan**, Mataram University, Mataram, Indonesia (janung4@yahoo.com.au)
Animal Sciences, **Freddy Pattiselanno**, State University of Papua, Manokwari, Indonesia (pattiselannofreddy@yahoo.com)
Biochemistry and Pharmacology, **Mahendra K. Rai**, SGB Amravati University, Amravati, India (pmkrai@hotmail.com)
Biomedical Sciences, **Afiono Agung Prasetyo**, Sebelas Maret University, Surakarta, Indonesia (afieagp@yahoo.com)
Biophysics and Computational Biology: **Iwan Yahya**, Sebelas Maret University, Surakarta, Indonesia (iyahya@uns.ac.id)
Ecology and Environmental Science, **Cecep Kusmana**, Bogor Agricultural University, Bogor, Indonesia (cecep_kusmana@ipb.ac.id)
Ethnobiology, **Luchman Hakim**, University of Brawijaya, Malang, Indonesia (lufehakim@yahoo.com)
Genetics and Evolutionary Biology, **Sutarno**, Sebelas Maret University, Surakarta, Indonesia (nnsutarno@yahoo.com)
Hydrobiology, **Gadis S. Handayani**, Research Center for Limnology, Indonesian Institute of Sciences, Bogor, Indonesia (gadis@limnologi.lipi.go.id)
Marine Science, **Mohammed S.A. Ammar**, National Institute of Oceanography, Suez, Egypt (shokry_1@yahoo.com)
Microbiology, **Charis Amarantini**, Duta Wacana Christian University, Yogyakarta, Indonesia (charis@ukdw.ac.id)
Molecular Biology, **Ari Jamsari**, Andalas University, Padang, Indonesia (ajamsari@yahoo.com)
Physiology, **Xiuyun Zhao**, Huazhong Agricultural University, Wuhan, China (xiuyunzh@yahoo.com.cn)
Plant Science: **Pudji Widodo**, General Soedirman University, Purwokerto, Indonesia (pudjiwi@yahoo.com)

Management Boards:

Managing Editor, **Ahmad D. Setyawan**, Sebelas Maret University Surakarta (unsjournals@gmail.com)
Associated Editor (English Editor), **Wiryono**, State University of Bengkulu (wiryonogood@yahoo.com)
Associated Editor (English Editor), **Suranto**, Sebelas Maret University Surakarta
Technical Editor, **Ari Pitoyo**, Sebelas Maret University Surakarta (aripitoyo@yahoo.co.id)
Business Manager, **A. Widiastuti**, Development Agency for Seed Quality Testing of Food and Horticulture Crops, Depok, Indonesia (nusbiosci@gmail.com)

PUBLISHER:

Society for Indonesian Biodiversity

CO-PUBLISHER:

School of Graduates, Sebelas Maret University Surakarta

FIRST PUBLISHED: 2009

ADDRESS:

Bioscience Program, School of Graduates, Sebelas Maret University
Jl. Ir. Sutami 36A Surakarta 57126. Tel. & Fax.: +62-271-663375, Email: nusbiosci@gmail.com

ONLINE:

biosains.mipa.uns.ac.id/nusbioscience



Society for Indonesia Biodiversity



Sebelas Maret University Surakarta

Guidance for Authors

Aims and Scope *Nusantara Bioscience* (Nus Biosci) is an official publication of the Society for Indonesian Biodiversity (SIB). The journal encourages submission of manuscripts dealing with all aspects of biological sciences that emphasize issues germane to biological and nature conservation, including agriculture, animal science, biochemistry and pharmacology, biomedical science, ecology and environmental science, ethnobiology, genetics and evolutionary biology, hydrobiology, microbiology, molecular biology, physiology, and plant science. Manuscripts with relevance to conservation that transcend the particular ecosystem, species, genetic, or situation described will be prioritized for publication.

Article The journal seeks original full-length research papers, short research papers (short communication), reviews, monograph and letters to the editor about material previously published; especially for the research conducted in the Islands of the Southeast Asian region or Nusantara, but also from around the world.

Acceptance The acceptance of a paper implies that it has been reviewed and recommended by at least two reviewers, one of whom is from the Editorial Advisory Board. Authors will generally be notified of acceptance, rejection, or need for revision within 2 to 3 months of receipt. Manuscript is rejected if the content is not in line with the journal scope, dishonest, does not meet the required quality, written in inappropriate format, has incorrect grammar, or ignores correspondence in three months. The primary criteria for publication are scientific quality and biological or natural conservation significance. The accepted papers will be published in a chronological order.

Copyright Submission of a manuscript implies that the submitted work has not been published before (except as part of a thesis or report, or abstract); that it is not under consideration for publication elsewhere; that its publication has been approved by all co-authors. If and when the manuscript is accepted for publication, the author(s) agree to transfer copyright of the accepted manuscript to *Nusantara Bioscience*. Authors shall no longer be allowed to publish manuscript without permission. Authors or others are allowed to multiply article as long as not for commercial purposes. For the new invention, authors are suggested to manage its patent before published.

Submission The journal only accepts online submission, through e-mail to the managing editor at unsjournals@gmail.com. The manuscript must be accompanied with a cover letter containing the article title, the first name and last name of all the authors, a paragraph describing the claimed novelty of the findings versus current knowledge, and a list of five suggested international reviewers (title, name, postal address, email address). Reviewers must not be subject to a conflict of interest involving the author(s) or manuscript(s). The editor is not obligated to use any reviewer suggested by the author(s).

Preparing the Manuscript

Please make sure before submitting that: The manuscript is proofread several times by the author (s); and is criticized by some colleagues. The language is revised by a professional science editor or a native English speaker. The structure of the manuscript follows the guidelines (sections, references, quality of the figures, etc). Abstract provides a clear view of the content of the paper and attracts potential citers. The number of cited references complies with the limits set by Nus Biosci (around 20 for research papers).

Microsoft Word files are required for all manuscripts. The manuscript should be as short as possible, and no longer than 7000 words (except for review), with the abstract < 300 words. For research paper, the manuscript should be arranged in the following sections and appear in order: Title, Abstract, Key words (arranged from A to Z), Running title (heading), Introduction, Materials and Methods, Results and Discussion, Conclusion, Acknowledgements, and References. All manuscripts must be written in clear and grammatically correct English (U.S.). Scientific language, nomenclature and standard international units should be used. The title page should include: title of the article, full name, institution(s) and address(es) of author(s); the corresponding authors detailed postal and e-mail addresses, and phone and fax numbers.

References Author-year citations are required. In the text give the authors name followed by the year of publication and arrange from oldest to newest and from A to Z. In citing an article written by two authors, both of them should be mentioned, however, for three and more authors only the first author is mentioned followed by et al., for example: Saharjo and Nurhayati (2006) or (Boonkerd 2003a, b, c; Sugiyarto 2004; El-Bana and

Nijs 2005; Balagadde et al. 2008; Webb et al. 2008). Extent citation as shown with word "cit" should be avoided. Reference to unpublished data and personal communication should not appear in the list but should be cited in the text only (e.g., Rifai MA 2007, personal communication; Setyawan AD 2007, unpublished data). In the reference list, the references should be listed in an alphabetical order. Names of journals should be abbreviated. Always use the standard abbreviation of a journal's name according to the ISSN List of Title Word Abbreviations (www.issn.org/2-22661-LTWA-online.php). The following examples are for guidance.

Journal:

Saharjo BH, Nurhayati AD. 2006. Domination and composition structure change at hemic peat natural regeneration following burning; a case study in Pelalawan, Riau Province. *Biodiversitas* 7: 154-158.

The usage of "et al" in long author lists will also be accepted:

Smith J, Jones M Jr, Houghton L et al. 1999. Future of health insurance. *N Engl J Med* 341: 325-329

Article by DOI:

Slifka MK, Whitton JL. 2000. Clinical implications of dysregulated cytokine production. *J Mol Med*. Doi:10.1007/s001090000086

Book:

Rai MK, Carpinella C. 2006. Naturally occurring bioactive compounds. Elsevier, Amsterdam.

Book Chapter:

Webb CO, Cannon CH, Davies SJ. 2008. Ecological organization, biogeography, and the phylogenetic structure of rainforest tree communities. In: Carson W, Schnitzer S (eds) *Tropical forest community ecology*. Wiley-Blackwell, New York.

Abstract:

Assaeed AM. 2007. Seed production and dispersal of *Rhazya stricta*. 50th annual symposium of the International Association for Vegetation Science, Swansea, UK, 23-27 July 2007.

Proceeding:

Alikodra HS. 2000. Biodiversity for development of local autonomous government. In: Setyawan AD, Sutarno (eds) *Toward mount Lawu national park; proceeding of national seminary and workshop on biodiversity conservation to protect and save germplasm in Java island*. Sebelas Maret University, Surakarta, 17-20 July 2000. [Indonesia]

Thesis, Dissertation:

Sugiyarto. 2004. Soil macro-invertebrates diversity and inter-cropping plants productivity in agroforestry system based on sengon. [Dissertation]. Brawijaya University, Malang. [Indonesia]

Online document:

Balagadde FK, Song H, Ozaki J, Collins CH, Barnet M, Arnold FH, Quake SR, You L. 2008. A synthetic *Escherichia coli* predator-prey ecosystem. *Mol Syst Biol* 4: 187. www.molecularsystemsbiology.com

Tables should be numbered consecutively and accompanied by a title at the top. **Illustrations** Do not use figures that duplicate matter in tables. Figures can be supplied in digital format, or photographs and drawings, which can be ready for reproduction. Label each figure with figure number consecutively.

Uncorrection proofs will be sent to the corresponding author by e-mail as .doc or .docx files for checking and correcting of typographical errors. To avoid delay in publication, proofs should be returned in 7 days.

A charge The cost of each manuscript is IDR 250,000,- plus postal cost or IDR 150,000,- for SIB members. There is free of charge for non Indonesian author(s), but need to pay postal cost for hardcopy.

Reprints Two copies of journal will be supplied to authors; reprint is only available with special request. Additional copies may be purchased by order when sending back the uncorrection proofs by e-mail.

Disclaimer

No responsibility is assumed by publisher and co-publishers, nor by the editors for any injury and/or damage to persons or property as a result of any actual or alleged libelous statements, infringement of intellectual property or privacy rights, or products liability, whether resulting from negligence or otherwise, or from any use or operation of any ideas, instructions, procedures, products or methods contained in the material therein.

NOTIFICATION: All communications are strongly recommended to be undertaken through email.

The effect of zearalenone mycotoxins administration at late gestation days on the development and reproductive organs of mice YULIA IRNIDAYANTI	1-5
Toxicity response of <i>Poecilia reticulata</i> Peters 1859 (Cyprinodontiformes: Poeciliidae) to some agricultural pesticides ALIAKBAR HEDAYATI, REZA TARKHANI, AHMAD SHADI	6-10
Physiological effect of some antioxidant polyphenols on sweet marjoram (<i>Majorana hortensis</i>) plants ABDALLA EL-MOURSII, IMAN MAHMOUD TALAAT, LAILA KAMAL BALBAA	11-15
Characterization of <i>Carica pubescens</i> in Dieng Plateau, Central Java based on morphological characters, antioxidant capacity, and protein banding pattern AINUN NIKMATI LAILY, SURANTO, SUGIYARTO	16-21
Community structure of parasitoids Hymenoptera associated with Brassicaceae and non-crop vegetation YAHERWANDI	22-26
Evaluation of the effectiveness of integrated management and mating disruption in controlling gypsy moth <i>Lymantria dispar</i> (Lepidoptera: Lymantriidae) populations GOODARZ HAJIZADEH, MOHAMMAD REZA KAVOSI	27-31
The total protein band profile of the green leafhoppers (<i>Nephotettix virescens</i>) and of the rice (<i>Oryza sativa</i>) infected by tungro virus ANI SULISTYARSI, SURANTO, SUPRIYADI	32-35
Review: Soil solarization and its effects on medicinal and aromatic plants KHALID ALI KHALID	36-44



Society for
Indonesian Biodiversity



Sebelas Maret University
Surakarta

Published three times in one year

PRINTED IN INDONESIA

ISSN 2087-3948



9 772087 394099

E-ISSN 2087-3956



9 772087 395096