

**SQUALEN: BULETIN PASCAPANEN DAN BIOTEKNOLOGI
KELAUTAN DAN PERIKANAN**
(SQUALEN: BULLETIN OF MARINE AND FISHERIES POSTHARVEST AND BIOTECHNOLOGY)
Vol.13 No.3, December 2018

- Publisher : Research and Development Center for Marine and Fisheries Product Processing and Biotechnology (RDCMFPPB)
- Managing Director : Head of Research and Development Center for Marine and Fisheries Product Processing and Biotechnology (RDCMFPPB)
- Editor in-Chief : Prof. Dr. Ekowati Chasanah (Biotechnology of Marine and Fisheries, RDCMFPPB, INA)
- Associate Editor : 1. Ariyanti Suhita Dewi, Ph.D (Marine Natural Product, RDCMFPCB, INA)
2. Dr. Hedi Indra Januar (Marine Environmet and Fisheries Food Safety, RDCMFPCB, INA)
3. Syamdidi, M.Sc (Fishery Product, RDCMFPCB, INA)
- Editorial Board : 1. Prof. Dr. Hari Eko Irianto (Fishery Product, RDCMFPCB, INA)
2. Prof. Dr. Taifo Mahmud (Molecular and Cellular Biology, Oregon State University, United States)
3. Prof. Dr. Nicholas Paul (Biochemistry, University of the Sunshine Coast, Australia)
4. Prof. Dr. Nurul Huda (Food Processing, School of Food Science and Nutrition, Universiti Malaysia Sabah, Malaysia)
5. Prof. Dr. Jan Schwarzbauer (Environmental Science, RWTH Aachen University, Germany)
6. Prof. Dr. Joko Santoso, MSi (Fishery Product, Bogor Agricultural University, INA)
7. Dr. Dewi Seswita Zilda (Biotechnology, RDCMFPCB, INA)
8. Dr. Masteria Yunovilsa Putra (Biochemistry, Indonesian Institute of Sciences, INA)
9. Dr. Puspita Lisdiyanti (Biochemistry, Indonesian Institute of Sciences, LIPI, INA)
- Peer Reviewers : 1. Prof. Dr. Wibowo Mangunwardoyo (Microbial Physiology and Biochemistry, University of Indonesia, INA)
2. Dr. Nisa Mubarik (Food Safety, Bogor Agricultural University, INA)
3. Yogiara, Ph.D (Microbiology, Atma Jaya University, INA)
4. Khomaini Hasan, Ph.D (Biotechnology, Institut Teknologi Bandung, INA)
5. Dr. Muhammad Taher (Natural Product, International Islamic University Malaysia, MYS)
6. Ir. Dwi Hindarti, MSi (Environmental, Centre for Oceanological Research and Development, INA)
7. Dr. I Wayan Mudianta (Natural Product Chemistry, Universitas Pendidikan Ganesha Bali, INA)
8. Dr. Eko Agus Suyono (Biochemistry, Genetics and Molecular Biology, Gadjah Mada University, INA)
9. Dr. Desriani (Biotechnology, Indonesian Institute of Science, INA)
10. Dr. Mala Nurilmala (Fisheries Biotechnology, Bogor Agricultural University, INA)
- Copy Editors : 1. Bagus Hendrajana, MSc
2. Dina Fransisca, MSi
3. Diah Ikasari, M.Biotech
4. Nurrahmi Dewi Fajarningsih, M.Biotech (Adv.)
5. Syamdidi, M.AppSc
6. Susiana Melanie, MSc
- Administration Address : Research and Development Center for Marine and Fisheries Product Competitiveness and Biotechnology
K.S. Tubun Petamburan VI, Jakarta, 10260
Phone/Fax : +62 (21) 53650157/+62 (21) 53650158
E-mail : squalenbulletin@kcp.go.id
squalenbulletin@gmail.com

Squalen: Buletin Pascapanen dan Bioteknologi Kelautan dan Perikanan (Squalen: Bulletin of Marine and Fisheries Postharvest and Biotechnology) published periodically three times a year i.e. May, August, and December by Research and Development Center for Marine and Fisheries Product Competitiveness and Biotechnology

Accredited Number: 21/E/KPT/2018

CITATION IS PERMITTED WITH ACKNOWLEDGEMENT OF THE SOURCE

FOREWORD

Third issue of volume 13 Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology has been launched in December 2018. This issue contains 4 original research articles and 1 short communication, i.e. Metabolite profiles and antioxidant activity of *Caulerpa racemosa* with different handlings; Identification of Protease-producing bacteria isolated from Banyuwedang, Bali, and characterization of its protease; Influence of salinity on growth and phycoerythrin production of *Rhodomonas salina*; Method comparison of DNA isolation and quantification for fish and seafood authenticity determination; and Characteristics of solid waste agar industries.

We would like to thank Prof. Dr. Wibowo Mangunwardoyo, Khomaini Hasan, Ph.D, Dr. I. Mudianta, Dr. Pinus Jumaryatno, Yogiara, Ph.D, Dr. Nisa Mubarik, Dr. Muhamad Nursid, Dr. Eko Agus Suyono, Dr. Desriani, and Dr. Mala Nurilmala as reviewers for this issue.

Special thanks, also, go to the contributors of the journal for their trust, patience and timely revisions. We hope that this issue arouses our readers' interest and may inspire new research and new findings which will then be published in our future issues of Squalen Bulletin.

Editors

SQUALEN BULETIN PASCAPANEN DAN BIOTEKNOLOGI KELAUTAN DAN PERIKANAN
(SQUALEN: BULLETIN OF MARINE AND FISHERIES POSTHARVEST AND BIOTECHNOLOGY)
Vol. 13 No. 3 December 2018

CONTENT

	Page
FOREWORD	i
CONTENT	iii
Metabolite Profiles and Antioxidant Activity of <i>Caulerpa racemosa</i> with Different Handlings Sihono, Kustiariyah Tarman, Hawis Madduppa, and Hedi Indra Januar	93-100
Identification of Protease-Producing Bacteria Isolated from Banyuwedang, Bali, and Characterization of its Protease Dewi Seswita Zilda, Yusro Nuri Fawzya, and Agustinus Robert Uria	101-108
Influence of Salinity on Growth and Phycoerythrin Production of <i>Rhodomonas salina</i> Endar Marraskuranto, Tri J. Raharjo, Rina S. Kasiamdari, and Tri R. Nuringtyas	109-114
Method Comparison of DNA Isolation and Quantification for Fish and Seafood Authenticity Determination Dwiyitno, Stefan Hoffman, Koen Parmentier, and Chris Van Keer	115-124
Characteristics of Solid Waste Agar Industries Ifah Munifah and Hari Eko Irianto	125-132

AUTHORS GUIDELINES
SQUALEN: BULETIN PASCAPANEN DAN BIOTEKNOLOGI KELAUTAN DAN PERIKANAN
(SQUALEN: BULLETIN OF MARINE AND FISHERIES POSTHARVEST AND BIOTECHNOLOGY)

1. Scope: research paper, short communication and reviews in the field of postharvest, food safety and environment, and bio-discovery of marine and fisheries.
2. Language: English. It is preferable that manuscripts are professionally edited. The abbreviated name or expression should be cited in full at first usage, followed by the accepted abbreviation in parentheses. Metric SI units should generally be used. Chemical formulas and solutions must specify the form used, e.g. anhydrous or hydrated and the concentration must be in clearly defined units. Common species names should be followed by the Latin binomial (*Italic*) at the first mention.
3. Manuscript: should be prepared max. 15 pages, double-spaced (except for title, tables, figures, and bibliography which is prepared in single-spaced) in Microsoft Word on A4 paper, font (Arial 10).

Research Paper manuscripts should contain the following sections :

- a. Title: brief, concise and informative, reflecting the manuscript material. Avoid the abbreviation and formula where possible. Author's name, institution, and address are written under the title.
- b. Abstract : a concise and factual abstract is required. The abstract should state briefly the purpose of research, the principle method, result and conclusion. Non-standard or uncommon abbreviation should be avoided, but if essential they must be defined at their first mention in the abstract itself. Abstract should not exceed 250 words.
- c. Key words: contain 3 to 5 words, referred from Agrovocs
- d. Introduction: state the background and objective(s) of the work, avoiding a detailed literature survey or a summary of the results.
- e. Material and Methods: provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference; only relevant modification should be described.
- f. Results and Discussion: results should be clear and concise. Discussion should explore the significance of the results of the work, not repeat them. Avoid extensive citation and discussion of published literature.
 - Tables: Short, clear and must be able to stand alone. Table should have a title and number in sequence and are placed above the table, font (Arial 10).
 - Figures and graphics: Prepared in appropriate pattern usable for black and white versions of all the color illustrations. Graphics should be prepared in MS Excel. Figure should have a title and number in sequence. Figure and graphics title and their explanation or notes are placed below the figures or graphics, font (Arial 10).
 - Pictures/photograph: Prepared in contrast color or B/W. Pictures/photographs should have a title and number in sequence. TIFF: color or grayscale photographs (halftones) always use a minimum of 300 dpi; bitmapped line drawings use a minimum of 1000 dpi; combinations bitmapped line/halftone (color or grayscale) a minimum of 500 dpi is required.
- g. Conclusion: Concise considering the title, objectives and research results.
- h. Acknowledgement: Collate acknowledgements, if any, in separate sections at the end of the article before the reference and do not, therefore, include them on the title page, as a footnote to the title or otherwise.
- i. Bibliography: Follow the APA (American Psychological Association) style referencing. References in the text should cite the latest and primary references at least 80% are strongly advised.

- a. Journal with DOI; b. Journal without DOI; c. Thesis or dissertation; d. Book Chapters
- Houbraken, J. A., Frisvad, J. C., & Samson, R. A. (2010). Taxonomy of *Penicillium citrinum* and related species. *Fungal Diversity*, 44(1), 117-133. doi: 10.1007/s13225-010-0047-z
- Yu, Z., Lang, G., Kajahn, I., Schmaljohann, R., & Imhoff, J. F. (2008). Scopularides A and B, Cyclodepsipeptides from a marine sponge-derived fungus, *Scopulariopsis brevicaulis*. *Journal of Natural Products*, 71(1), 1052-1054.
- Prigent, S. (2005). Interactions of phenolic compounds with globular proteins and their effects on food related functional properties. ph.D. Thesis. Wageningen University, The Netherlands.
- Lanier, T. C., Carvajal, P., & Yongsawatdigul, J. (2005). Surimi gelation chemistry. In J.W. Park (Ed) *Surimi and surimi seafood*, p. (pp. 435-489). Boca Raton, FL: CRC Press Taylor and Francis Group.

Review Paper, manuscript should be written as a continuous articles sub headings that reflect the matter discussed, not necessarily the same as the sub heading of the research paper (Abstract, Introduction, Discussion, Conclusion, Acknowledgement, References)

4. Submission of manuscript: A soft copy of the manuscript should be submitted electronically by Open Journal System (OJS) at website: www.bbp4b.litbang.kkp.go.id/squalen-bulletin. Manuscript should be uploaded as Word (.doc) files (not write-protected) or/ and MS Excel for the figures or graphics. The text file must contain the entire manuscript including title page, abstract, keywords, text, references, tables, and figures. All the manuscripts submitted to 'Squalen: Buletin Pascapanen dan Bioteknologi Kelautan dan Perikanan (Squalen: Bulletin of Marine and Fisheries Postharvest and Biotechnology)' will be reviewed by peer reviewers and editors. Manuscript submitted should not be submitted or under reviewed other journal.
5. Manuscript which does not meet the above requirements will be rejected.
6. Editor provides reprint for the author(s).