

**SQUALEN: BULETIN PASCAPANEN DAN BIOTEKNOLOGI  
KELAUTAN DAN PERIKANAN**  
**(SQUALEN: BULLETIN OF MARINE AND FISHERIES POSTHARVEST AND BIOTECHNOLOGY)**  
**Vol.13 No.2, August 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)
- Editors** : 1. Dr. Bagus Sediadi Bandol Utomo (Fisheries Product Development, RDCMFPPB, INA)  
2. Dr. Dewi Seswita Zilda (Biotechnology, RDCMFPCB, INA)  
3. Dr. Dedi Noviendri (Biotechnology, RDCMFPCB, INA)  
4. Dr. Hedi Indra Januar (Marine Environment and Fisheries Food Safety, RDCMFPCB, INA)  
5. Ariyanti Suhita Dewi, Ph.D (Marine Natural Product, RDCMFPCB INA)  
6. Prof. Dr. Jose Alberto Ramirez de Leon (Food Processing, Universidad Autonoma de Tamaulipas, Mexico)
- Peer Reviewers** : 1. Prof. Dr. Wibowo Mangunwardoyo (Microbial Physiology and Biochemistry, University of Indonesia, INA)  
2. Dr. Ario Damar (Coastal and Marine Bioecology, Bogor Agricultural University, INA)  
3. Dr. Agus Trianto (Fisheries and Marine, Diponegoro University, INA)  
4. Dr. Dwiwitno (Product Safety, Authenticity and Environmental Studies, RDCMFPCB, INA)  
5. Ir. Dwi Hindarti, MSi (Environmental, Centre for Oceanological Research and Development, INA)  
6. Dr. Kustiariyah Tarman (Bogor Agricultural University, INA)  
7. Dr. Nisa Mubarik (Food Safety, Bogor Agricultural University, INA)  
8. Nurul Huda, Ph.D (Food Processing, Universiti Sultan Zainal Abidin Kuala Terengganu, MYS)  
9. Dr. Singgih Wibowo (Fisheries Product Development, RDCMFPPB, INA)  
10. Yanti, Ph.D (Microbiology, Atma Jaya University, INA)  
11. Yogiara, Ph.D (Microbiology, Atma Jaya University, INA)  
12. Khomaini Hasan, Ph.D (Biotechnology, Institut Teknologi Bandung, INA)  
13. Dr. Muhammad Taher (Natural Product, International Islamic University Malaysia, MYS)  
14. Ir. Yusro Nuri Fawzya, MSi (Biotechnology, RDCMFPCB, INA)  
15. Dr. Masteria Yunovilsa Putro (Biochemistry, Indonesian Institute of Sciences, INA)
- Copy Editors** : 1. Bagus Hendrajana, MSc  
2. Diah Ikasari, M.Biotech  
3. Nurrahmi Dewi Fajarningsih, M.Biotech (Adv.)  
4. Syamdidi, M.AppSc  
5. Dina Fransisca, MSi  
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@kkp.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

We are very pleased to present first issue of Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology i.e, volume 13, year of 2018. This bulletin is part of the Research Center for Marine and Fisheries Product Processing and Biotechnology series of publications.

This issue contains 5 original research articles the field of marine biotechnology and fisheries, i.e. Potency of Actinomycetes from Deepsea Sediment of Makassar Strait for Producing Antimicrobial Substances, Angiotensin Converting Enzyme (ACE) Inhibitory Activity of Crude and Fractionated Snakehead Fish (*Channa striata*) Fillet Extract, Probabilistic Health Risk Assessment Due to Natural Formaldehyde Intake Through Opah Fish (*Lampris guttatus*) Consumption in Indonesia, Physicochemical Characteristics of Sodium Alginate Extracted from *Turbinaria* sp. and *Sargassum* sp., Risk Profile and Semi Quantitative Risk Probability of Aflatoxin B1 from *Aspergillus Flavus* in a Dried Salted Fish in Several Regions of Java.

We would like to thank Dr. Agus Trianto, Dr. Ario Damar Ir. Dwi Hindarti, M.Si, Dr. Dwiyitno, Dr. Kustiariyah Tarman, Nurul Huda, P.hD, Dr. Singgih Wibowo, Yanti, P.hD, Ir. Yusro Nuri Fawzya, M.Si, 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. 2 August 2018**

**CONTENT**

	Page
<b>FOREWORD</b> .....	i
<b>CONTENT</b> .....	iii
Potency of Actinomycetes from Deepsea Sediment of Makassar Strait for Producing Antimicrobial Substances Ariani Hatmanti, Puspita Lisdiyanti, Jaka Widada, and Subagus Wahyuono .....	45-56
Angiotensin Converting Enzyme (ACE) Inhibitory Activity of Crude and Fractionated Snakehead Fish ( <i>Channa striata</i> ) Fillet Extract Setyani Budiari, Ekowati Chasanah, Maggy Thenawidjaja Suhartono, and Nurheni Sri Palupi .....	57-67
Probabilistic Health Risk Assessment Due to Natural Formaldehyde Intake Through Opah Fish ( <i>Lampris guttatus</i> ) Consumption in Indonesia, Ajeng Kurniasari Putri, Umi Anissah, Farida Ariyani, and Singgih Wibowo .....	69-78
Physicochemical Characteristics of Sodium Alginate Extracted from <i>Turbinaria</i> sp. and <i>Sargassum</i> sp. Rinta Kusumawati, Jamal Basmal, and Bagus Bandol Utomo .....	79-84
Risk Profile and Semi Quantitative Risk Probability of Aflatoxin B1 from <i>Aspergillus Flavus</i> in a Dried Salted Fish in Several Regions of Java. Izhamil Hidayah, Irma Hermana, and Arifah Kusmarwati .....	85-91

**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 authors' names followed by the date of their publication, unless there are three or more authors when only the first authors' name is quoted followed by et al. e. g. Smith et al. (1999) or Jones & Smith (2000). References at the end of the paper should be listed in the alphabetical order. Please ensure that every reference cited within the text is also present in the reference list (and vice versa).

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](http://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).