

FACULTY OF FISHERIES  
AND MARINE SCIENCE

UNIVERSITAS  
DIPONEGORO



# STAFF HANDBOOK

AQUACULTURE



## Table of Content

Staff Handbook (Prof.Dr.Ir. Johannes Hutabarat, MSc.).....	2
Staff Handbook (Prof. Ir. Slamet Budi Prayitno, MSc. PhD.) .....	5
Staff Handbook (Prof. Dr. Ir. Sri Rejeki, M.Sc.).....	11
Staff Handbook (Dr. Ir. Fajar Basuki, MS.) .....	15
Staff Handbook (Dr.Ir.Istiyanto Samidjan,MS) .....	19
Staff Handbook (Dr. Ir. Suminto, M.Sc.) .....	22
Staff Handbook (Dr.Ir. Titik Susilowati, M.Si).....	26
Staff Handbook (Dr. Ir. Pinandoyo, M.Si).....	30
Staff Handbook (Dr. Ir. Sarjito, M.App.Sc).....	35
Staff Handbook (Dr.Ir. Subandiyono, MAppSc.) .....	41
Staff Handbook (Dr. Ir.Sri hastuti, MSi.) .....	46
Staff Handbook (Dr. Ir. Diana Rachmawati, M.Si.) .....	51
Staff Handbook (Dr. Ir. Desrina, M.Sc.) .....	59
Staff Handbook (Tita Elfitasari, SPi, MSc, PhD) .....	63
Staff Handbook (Restiana Wisnu Ariyati, SPi, MPi).....	66
Staff Handbook (Dr.Vivi Endar Herawati, S.Pi, M.Si.).....	70
Staff Handbook (Ristiawan Agung Nugroho, S.Pi, M.Si.) .....	83
Staff Handbook (Dr. Diana Chilmawati, S.Pi., M.Si.) .....	92
Staff Handbook (Alfabetian Harjuno Condro Haditomo, S.Pi., M.Si.) .....	98
Staff Handbook (Tristiana Yuniarti, S.Pi, M.Si).....	104
Staff Handbook (Lestari Lakhsmi Widowati, S.Pi., M.Pi.) .....	109
Staff Handbook (Dicky Harwanto, S.Pi, M.Sc, Ph.D.).....	112
Staff Handbook (Seto Windarto, S.Pi., M.Sc., M.P.).....	116
Staff Handbook (Rosa Amalia, S.Pi., M.Si.).....	122
Staff Handbook (Dewi Nurhayati, S.Pi., M.Si.).....	123

## Staff Handbook (Prof.Dr.Ir. Johannes Hutabarat, MSc.)

Name	Prof.Dr.Ir. Johannes Hutabarat, MSc.		
Post	Fisheries , Aquaculture		
Academic career	Doctoral Degree (Fisheries)	Univ, of Stirling, England	1990
	Master Degree (Fisheries)	Univ, of Stirling, England	1984
	Bachelor Degree (Fisheries)	Universitas Diponegoro	1976
Employment	Lecturer at Fisheries and Marine Science Faculty	Universitas Diponegoro	1976 - now
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<b>Agung Sudaryono, Elena Tsvetnenko, Johannes Hutabarat, Supriharyono, Louis H, Evans.</b>		
	Lupin ingredients in shrimp ( <i>Penaeus monodon</i> ) diets: influence of lupin species and types of meals Aquaculture, Volume 171, Issue 1-2, pages 121-133 <a href="https://www.sciencedirect.com/science/article/abs/pii/S0044848698004244">https://www.sciencedirect.com/science/article/abs/pii/S0044848698004244</a>		
	<b>Pinandoyo, Johannes Hutabarat, Darmanto, Ocky K. Radjasa, Vivi E. Herawati</b> Growth and nutrient value of tilapia ( <i>Oreochromis niloticus</i> ) fed with Lemna minor meal based on different fermentation time AAFL Bioflux, 2019, Volume 12, Issue 1 <a href="http://www.bioflux.com.ro/docs/2019.191-200.pdf">http://www.bioflux.com.ro/docs/2019.191-200.pdf</a>		
	<b>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Seto</b>		

**Windarto**

Utilization of papain as feed additive in the fish feed on activity of digestive enzymes, contents of nutrient and minerals of Sangkuriang catfish (*Clarias gariepinus* var. Sangkuriang)

AACL Bioflux, 2020, Volume 13, Issue 5.

<http://bioflux.com.ro/docs/2020.2738-2744.pdf>

**Vivi Endar Herawati, Johannes Hutabarat, Ocky Karna Radjasa.**

Nutritional Content of *Artemia* sp. Fed with *Chaetoceros calcitrans* and *Skeletonema costatum*

Hayati Journal of Biosciences, Volume 21 Issue 4 pages 166-172. 2014

<https://reader.elsevier.com/reader/sd/pii/S1978301916300912?token=E B51CE3C7F493B27E759EBAAD3CA6E6E7D03FF586A86ECCAD7 CDFAF1C163571E2D541DB62DEB2D4DE336A9B50304BBF5&originRegion=us-east-1&originCreation=20211007110710>

**Vivi Endar Herawati, Johannes Hutabarat, Pinandoyo, Ocky Karna Radjasa.**

Growth and Survival Rate of *Tilapia (Oreochromis niloticus)* Larvae Fed by *Daphnia magna* Cultured With Organic Fertilizer Resulted From Probiotic Bacteria Fermentation

Hayati Journal of Biosciences, volume 22, Issue 4, pages 169-173. 2015

<https://reader.elsevier.com/reader/sd/pii/S1978301915000121?token=6 CB69CC27C6EF161C87D4F9D4BBDBD937FD4E48A73A072332589 CF212CB894FFA94020BE800F923B2CCFD8A451EE1F61&originRegion=us-east-1&originCreation=20211007110932>

**Vivi Endar Herawati, Pinandoyo, Nurmanita Rismaningsih, Darmanto, Johannes Hutabarat, Ocky Karna Radjasa.**

The effect of probiotic bacteria in culture media using organic fertilizer for population density, biomass production and nutrient quality of *Phronima* sp. as natural feed

Aquaculture Research, volume 51, Issue 2 , pages 836-842. 2019

<https://onlinelibrary.wiley.com/doi/epdf/10.1111/are.14433>

	<p><b>Vivi Endar Herawati, Ristiawan Agung Nugroho, Pinandoyo, Johannes Hutabarat, Budi Prayitno, Ocky Karnaradjasa.</b></p> <p>The Growth Performance and Nutrient Quality of Asian Swamp Eel <i>Monopterus albus</i> in Central Java Indonesia in a Freshwater Aquaculture System with Different Feeds</p> <p>2018</p> <p>Journal of Aquatic Food Product Technology, Volume 27, Issue 6, pages 658-666</p> <p><a href="https://www.tandfonline.com/doi/abs/10.1080/10498850.2018.1483990">https://www.tandfonline.com/doi/abs/10.1080/10498850.2018.1483990</a></p>		
	<p><b>Vivi E. Herawati, Ristiawan A. Nugroho, Johannes Hutabarat, Ocky Karnaradjasa</b></p> <p>Profile of amino acids, fatty acids, proximate composition and growth performance of <i>Tubifex tubifex</i> culture with different animal wastes and probiotic bacteria</p> <p>AAFL Bioflux, 2016, Volume 9, Issue 3</p> <p><a href="http://bioflux.com.ro/docs/2016.614-622.pdf">http://bioflux.com.ro/docs/2016.614-622.pdf</a></p>		
<p>Activities in specialist bodies over the last 5 years</p>	<p>Steering Committee of the Indonesian Aquaculture Society</p>	<p>Deputy Chairman</p>	<p>2012 – now</p>
	<p>National Fisheries Society</p>	<p>Chairman of the Technical Commission</p>	<p>2010 - now</p>

## Staff Handbook (Prof. Ir. Slamet Budi Prayitno, MSc. PhD.)

Name	Prof. Ir. Slamet Budi Prayitno, MSc. PhD.		
Post	Aquaculture - Fish Health Management		
Academic career	Marine Biology	School fo Ocean Science- Univ, of North Wales	1990
	Aquaculture & fishery Management	Institute of Aquaculture – Univ, of Stirling, Scotland	1984
	Fisheries	Universitas Diponegoro	1975
Employment	Lecturer at Fisheries and Marine Science Faculty	<i>Undip</i>	1981 - now
Research and development projects over the last 5 years	<p>1. Green Manufacturing and Characterization of Super Adsorben from Natural Organic Waste as Detoxification of Shrimp Pond (2021 -2023, 3 years), <i>Partners :</i> Faculty of Techncl Engineering, and Faculty of Mathematic and Natural Science, Diponegoro University, 450 millions rupiah</p> <p>2. Effect of Caulerpa lentilliferaadded into culture media on the growth and nutritionalvalues of Phronima pacifica, a natural fish - feed crustacean. (2021-2022, 1 year), 75 million rupiah</p> <p>3. The use of Bioactive Protein (Motiv) in The Diet to the Performance of white shrimp (<i>Litopenaeus vannamei</i>) 2021 (1 years),</p>		

	<p>Diponegoro University and Indonesian Aquaculture Society</p> <p>200 million rupiah</p> <p>4. Effect of Feeding with phronima sp. on Growth , Survival reate and nutrient value content of Pasific white shrimp (<i>Litopenaeus vannnamei</i> ) Post – larvae.</p> <p>(2018 -2020, 2 years),</p> <p>58 million rupiah</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p>(11):</p> <p>Gina Saptiani, Slamet Budi Prayitno and Sari Anggarawati Effect of mangrove leaf extract (<i>Acanthus ilicifolius</i>) on non-specific immune status and vibriosis resistance of black tiger shrimps (<i>Penaeus monodon</i>) challenged with <i>Vibrio harveyi</i> Veterinary World, 14(8): 2282-2289 (August, 2021) <a href="http://www.veterinaryworld.org/Vol.14/August-2021/39.pdf">www.veterinaryworld.org/Vol.14/August-2021/39.pdf</a></p> <p>Vivi Endar Herawati, Pinandoyo, Restiana Wisnu Ariyati, Nurmanita Rismaningsih, Seto Windarto, Slamet Budi Prayitno, Y.S. Darmanto, Ocky Karna Radjasa Effects of <i>Caulerpa lentillifera</i> added into culture media on the growth and nutritional values of <i>Phronima pacifica</i>, a natural fish-feed crustacean BIODIVERSITAS, 22(1): 424-431 (January, 2021) DOI: 10.13057/biodiv/d220152 <a href="https://smujo.id/biodiv/article/view/7136">https://smujo.id/biodiv/article/view/7136</a></p> <p>Lestari L. Widowati, S. Budi Prayitno, Sri Rejeki, Tita Elfitasari, Pujiono W. Purnomo, Restiana W. Ariyati and Roel H. Bosma Organic matter reduction using four densities of seaweed (<i>Gracilaria verucosa</i>) and green mussel (<i>Perna viridis</i>) to improve water quality for aquaculture in Java, Indonesia Aquat. Living Resour. 2021, 34, 5 (February, 2021)</p>

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<https://doi.org/10.1051/alr/2021002>

Sarjito, Haditomo AHC, Erlinda K, Desrina, Prayitno SB. DOI | <http://dx.doi.org/10.17582/journal.aavs/2020/8.12.1427.1434>

Role of Gracilaria verrucosa extract in the Feed as Immunostimulant of White Shrimp (*Litopenaeus vannamei*) Infected *Vibrio harveyi*

Adv. Anim. Vet. Sci. 8(12): 1427-1434 (November 15, 2020)

Crossmark publication

<http://dx.doi.org/10.17582/journal.aavs/2020/8.12.1427.1434>

Vivi Endar Herawatia, Pinandoyo, Y.S. Darmanto, Nurmanita Rismaningsih, Johannes Hutabarat, Slamet Budi Prayitno, Ocky Karna Radjasa

Effect of feeding with *Phronima* sp. on growth, survival rate and nutrient value content of Pacific white shrimp (*Litopenaeus vannamei*) Post-larvae

Aquaculture, 529 (2020) 735674 (July 12, 2020)

Available online 12 July 2020 0044-8486/ © 2020 Elsevier B.V. All rights reserved.

<https://doi.org/10.1016/j.aquaculture.2020.735674>

Desrina, Slamet B. Prayitno, Alfabetian Harjuno Condro Haditomo, Rusthesa Latritiani, Sarjito Sarjito

Detection of *Enterocytozoon hepatopenaei* (EHP) DNA in the polychaetes from shrimp ponds suffering white feces syndrome outbreaks

Biodiversitas, 21(1): 369-374 (January 2020)

<https://smujo.id/biodiv/article/view/4304/3612>

Mohammad B, Syakirin, SutrisnoAnggoro, Slamet B, Prayitno, Suradi W, Saputra

Effects of the salinity media on the osmotic work level, feed utilization efficiency and the growth of "cantang" hybrid grouper *Epinephelus fuscoguttatus* x *E. lanceolatus*



-  
AAFL Bioflux, 11(4):1274 – 1279. 2018

<https://www.bioflux.com.ro/docs/2018.1274-1279.pdf>

Agustina, Slamet B, Prayitno, AgusSabdon, Gina Saptiani  
Antagonistic Activity of Kelabau Fish  
(*Osteochilus melanopleurus*) Gut Bacteria Against  
*Aeromonashydrophila* and *Pseudomonas* sp

-  
AAFL Bioflux, 11(6): 1859 -1868, 2018

<http://www.bioflux.com.ro/docs/2018.1859-1868.pdf>

Anggih Isti Choeronawati, Slamet Budi Prayitno, dan  
Haeruddin

Feasibility study on the brackhiswater aquaculture in coastal  
area of Purworejo Regency

-  
*Jurnal Ilmu dan Teknologi Kelautan Tropis*, 11(1): 191-204,  
April 2019

Fauza Alfisyahrin, Slamet Budi Prayitno, Sarjito

Prevalence Prevalence and identification fungal of fungal  
disease on Catfish (*Clarias gariepinus*) juvenile at Kendal  
Coastal Region, Central Java

-  
*IOP Conf. series: Earth and Environmental Science* 246 (2019)  
012048

<https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012048/pdf>

YK Artanto, SB Prayitno, S Sarjito, D Desrina, AHC Haditomo

Molucular characteristic of Indonesian isolate Enterocytozoon  
hepatopenaei based on sequence analysis of 18S rRNA genes

-  
*Omni-Akuatika*, 15(1). 2019

<https://ojs.omniakuatika.net/index.php/joa/article/view/694/241>

F Wulansari, SB Prayitno, AHC Haditomo

Study of probiotic candidate bacteria CBL20 for inhibiting of *Aeromonas* with different concentration in tilapia (*Oreochromis niloticus*).

-

*IOP Conference series: Earth and Environmental Science*, 246 (1)(2019) 012-032.

<https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012032/pdf>

Agustina, Slamet B. Prayitno, AgusSabdon, Gina Saptiani

Pathogenicity assay of probiotic-potential bacteria from the Kelabau fish (*Osteochilus melanopleurus*).

-

*AAFL Bioflux*, 12 (5): 1994 – 2003. 2020

<http://www.bioflux.com.ro/docs/vol1/2019.1994-2003.pdf>

Yohanes K. Artanto, Slamet B. Prayitno, Sarjito, Desrina, Afabetian C. Haditomo.

Molecular characteristics of Indonesian *Enterocytozoon hepatopenaei* isolates based on sequence analysis of spore wall protein genes.

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*AAFL Bioflux*, 12(5): 2004-2014. 2020

<http://www.bioflux.com.ro/docs/2019.2004-2014.pdf>

Vivi Endar Herawati, Pinandoyo, Seto Windarto, Putut Hariyadi, Johannes Hutabarat, YS. Darmanto, Nurmanita Rismaningsih, Slamet Budi Prayitno, Ocky Karna Radjasa

Maggot Meal (*Hermetia illucens*) Substitution on Fish Meal to Growth Performance, and Nutrient Content of Milkfish (*Chanos*).

-

*Hayati Journal of Bioscience*, 27(2):154-165(April 2020), 2020

<https://journal.ipb.ac.id/index.php/hayati/article/view/31499/20075>

	<p>Taukhid, Maskur, Murwantoko, S B Prayitno, D Sugiani and D Caruso</p> <p>Building and improving the capacity of fish and environmental health management strategy in Indonesia.</p> <p>-</p> <p><i>IOP Conference series: Earth and Environmental Science, 521 (1)(2020) 012016.</i></p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/521/1/012016/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/521/1/012016/pdf</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>National Consultant on legislation, FAO –MMAF on KHV, 2002</p>
	<p>National consultant IFish Project preparation FAO-GEF- MMAF, 2013</p>
	<p>National consultant on FAO-MMAF project on IMNV (NSAAH) 2014</p>
	<p>National consultant on NORAD-FAO update NSAAH in the context of PMP/AB and Disease Burden, 2021.</p>
	<p>Minister Expert Staff of The Ministry of Marine Affairs and Fisheries of Indonesia 2020</p>

## Staff Handbook (Prof. Dr. Ir. Sri Rejeki, M.Sc)

Name	Prof. Dr. Ir. Sri Rejeki, M.Sc		
Post	Aquaculture		
Academic career	The Aquatic Resources Management	<i>Universitas Diponegoro</i>	2008
	Aquaculture and Fisheries Management	Stirling University, Scotland UK	1996
	<i>Fisheries</i>	<i>Universitas Diponegoro</i>	1975
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	1983 - now
Research and development projects over the last 5 years	<p>Upaya Pemulihan Produksi Perikanan pada Lahan Terabradi dengan Penerapan <i>Integrated Multi Trophic Aquaculture</i> (LEISA) berdasarkan Analisis Multisektoral secara Ekologis dan Ekonomis. Tahun ke 1 dari rencana 2 tahun</p> <p>2016</p> <p>PNBP-DIPA UNIVERSITAS DIPONEGORO</p> <p>Inisiasi Penerapan System Low External Input Sustainable Aquaculture (LEISA) untuk Efisiensi Produksi Pentokolan Udang Windu (<i>Panaeus monodon</i>) PL15-PL60 Menuju Pangan Organik</p> <p>2017</p> <p>-</p> <p>PNBP-DIPA UNIVERSITAS DIPONEGORO</p> <p>Peranan Rumput Laut (<i>Gracilaria</i> sp) dan Kerang Hijau (<i>Perna viridis</i>) dalam <i>Integrated Multi Trophic Aquaculture</i> (IMTA) Untuk Mewujudkan Kualitas Air Yang Optimal bagi Budidaya Tambak</p> <p>2018</p> <p>-</p> <p>PNBP-DIPA UNIVERSITAS DIPONEGORO</p> <p>Budidaya Terintegrasi Dan Adaptif Menggunakan Nila (<i>Oreochromis niloticus</i>) dan bandeng (<i>Chanos chanos</i>) sebagai Organisme Pendamping dalam Optimalisasi Produksi Tambak</p> <p>2019</p> <p>-</p> <p>PNBP-DIPA UNIVERSITAS DIPONEGORO</p> <p>PASMI: Project to Design Aquaculture System to Support Mangrove restoration in Indonesia</p>		

	2016 - 2019 - NOW Wothro
Industry collaborations over the last 5 years	-
Patents and proprietary rights	<p><i>Book:</i> <span style="float: right;">2019</span> <i>Aquaculture Introduction (in Indonesian Language): as writer</i></p> <p><i>Book:</i> <span style="float: right;">2019</span> <i>Application of the LEISA – IMTA (Low External Input Sustainable Aquaculture – Integrated Multi Trophic Aquaculture) Concept in Abrasion Affected Brackish Ponds: Professor Inauguration Speech (in Indonesian Language) : as writer</i> <i>First Edition First Print</i></p> <p><i>Book:</i> <span style="float: right;">2020</span> <i>Application of the LEISA – IMTA (Low External Input Sustainable Aquaculture – Integrated Multi Trophic Aquaculture) Concept in Abrasion Affected Brackish Ponds (in Indonesian Language): as writer</i> <i>First Edition Second Printing</i></p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (9):</i></p> <p><b>Rejeki , Sri and Ariyati, Restiana Wisnu and Widowati, Lestari Lakhsmi</b> Application of Integrated Multi Tropic Aquaculture Concept in an Abraded Brackish Water Pond</p> <p>- Jurnal Teknologi (Science &amp; Engineering) Vol 78:4 –2 (2016) 227 – 232 <a href="http://eprints.undip.ac.id/65101/1/Application_of_Integrated_Multi_Trop">http://eprints.undip.ac.id/65101/1/Application_of_Integrated_Multi_Trop</a></p>

[ic Aquaculture Concept in an Abraded Brackish Water Pond.pdf](#)

**Sri Rejeki, Restiana W. Ariyati, Lestari Lakshmi Widowati, Roel H Boesma**

The Effect of Three Cultivation Methods and Two Seedling Types on Growth, Agar Content and Gel Strength of *Gracilaria Verrucosa*

-

Egyptian Journal of Aquatic Research. 2018. Vol. 44. Halaman 65-70. ISSN: 1687-4285

<https://reader.elsevier.com/reader/sd/pii/S1687428518300013?token=B2F4C390EA45E3788635E6DE606E39422DFA861DD183E2A7ADB69A335B206C0D54C73ED2B7F828C24AC85BDCF7E8F472&originRegion=eu-west-1&originCreation=20211006040053>

**Lestari L. Widowati, Restiana W. Ariyati, Sri Rejeki**

Ecological And Economical Analysis For Implementing Integrated Multi Trophic Aquaculture (Imta) In An Abraded Area To Recover Aquaculture Production In Kaliwlingi, Brebes, Indonesia

-

Geo-Eco-Marina 2019. Vol. 25: 161-170

[https://journal.geoecomar.ro/geo-eco-marina/article/view/12\\_2019/94](https://journal.geoecomar.ro/geo-eco-marina/article/view/12_2019/94)

**Sri-Rejeki, Marcel Middlehans, Restiana Wisnu Ariyati, Lestari Lakshmi Widowati, Roel Bosma**

The The effects of decomposing mangrove leaf litter and its tannins on water quality and the growth and survival of tiger prawn (*Penaeus monodon*) post-larvae

-

Biodiversitas Journal of Biological Diversity. Vol 20 (9): 2750 – 2757 , 2019

<https://smujo.id/biodiv/article/view/3941/3419>

**Restiana Wisnu Ariyati, Sri Rejeki, Lestari L. Widowati, Tita Elfitasari & Roel H. Bosma.**

Effect of three types of liquid compost combined with *Avicennia marina* leaves on growth and survival of tiger prawns (*Penaeus monodon*)

-

Int Aquat Res (2019) 11:323–324

<https://link.springer.com/content/pdf/10.1007/s40071-019-00239-x.pdf>

**Sri Rejeki, Adolphe O. Debrot, Anneke M. van den Brink, Restiana W. Ariyati, Lestari Lakshmi Widowati.**

Increased production of green mussels (*Perna viridis*) using longline

	<p>culture and an economic comparison with stake culture on the north coast of Java, Indonesia</p> <p>2020</p> <p>Aquac. Res. 2021;52:373–380.</p> <p><a href="https://onlinelibrary.wiley.com/doi/epdf/10.1111/are.14900">https://onlinelibrary.wiley.com/doi/epdf/10.1111/are.14900</a></p>
	<p>Adolphe O. Debrot, Ab Veldhuizen, Sander W.K. van den Burg, Charlotte J. Klapwijk, Md. Nazrul Islam, Md. Iftakharul Alam, Md. Nazmul Ahsan, Moin U. Ahmed, Selim R. Hasan, Ratnawaty Fadilah, Yus R. Noor, Rudhi Pribadi, <b>Sri Rejeki</b>, Ekaningrum Damastuti, Esther Koopmanschap, Stijn Reinhard, Catharien Terwisscha van Scheltinga, Charlotte Verburg, Marnix Poelman</p> <p>Non-Timber Forest Product Livelihood-Focused Interventions in Support of Mangrove Restoration: A Call to Action</p> <p>Forest2020, Volume 11 Issue 11, 1224</p> <p><a href="https://www.mdpi.com/1999-4907/11/11/1224/htm">https://www.mdpi.com/1999-4907/11/11/1224/htm</a></p>
	<p><b>Lestari L. Widowati, S. Budi Prayitno, Sri Rejeki, Tita Elfitasari, Pujiono W. Purnomo, Restiana W. Ariyati and Roel H. Bosma</b></p> <p>Organic matter reduction using four densities of seaweed (<i>Gracilaria verucosa</i>) and green mussel (<i>Perna viridis</i>) to improve water quality for aquaculture in Java, Indonesia</p> <p>Aquatic Living Resources, volume 34, 2021, pages 11.</p> <p><a href="https://www.alr-journal.org/articles/alr/abs/2021/01/alr200068/alr200068.html">https://www.alr-journal.org/articles/alr/abs/2021/01/alr200068/alr200068.html</a></p>
	<p><b>Lestari L. Widowati, Restiana W. Ariyati, Sri Rejeki, Roel H. Bosma.</b></p> <p>The impact of aquaculture field school on the shrimp and milkfish yield and income of farmers in Demak, Central Java</p> <p>J. World Aquaculture Society, 2021:52:362-377</p> <p><a href="https://onlinelibrary.wiley.com/doi/epdf/10.1111/jwas.12770">https://onlinelibrary.wiley.com/doi/epdf/10.1111/jwas.12770</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Dr. Ir. Fajar Basuki, MS.)

Name	Dr. Ir. Fajar Basuki, MS.		
Post	Aquaculture – Fish Production Management		
Academic career	<i>Doctorate</i> (Reproductive Biology)	Bogor Agricultural University	2007
	<i>Magister</i> (Reproductive Biology)	Bogor Agricultural University	1990
	<i>Undergraduate degree</i> (Aquaculture)	Diponegoro University	1983
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	1985 - now
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years			
Patents and proprietary rights			
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (10):</i></p> <p>Fajar Basuki, Sri Hastuti, Subandiyono Subandiyono, Wartono Hadie</p> <p>The Growth Performance of Larasati tilapia (<i>Oreochromis niloticus</i> Linnaeus, 1758) Farming Using Bioflocs Technology</p> <p>-</p> <p>Omni-Akuatika, 2017, Vol. 13, Issue 2, 16-24</p> <p><a href="http://ojs.omniakuatika.net/index.php/joa/article/view/247/147">http://ojs.omniakuatika.net/index.php/joa/article/view/247/147</a></p>		



	<p>Titik Susilowati, Desrina, Johannes Hutabarat, S. Anggoro, M. Zainuri, Sarjito, Fajar Basuki, Tristiana Yuniarti</p> <p>The Effects of Season, Aeration and Light Intensity on the Performance of Pacific Whiteleg Shrimp (<i>Litopenaeus vannamei</i>) Polycultured with Seaweed (<i>Gracilaria verrucosa</i>)</p> <p>-</p> <p>IOP Conference Series, Asean-Fen International Fisheries Symposium, 2017, Vol. 137</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012016/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012016/pdf</a></p>
	<p>Fajar Basuki, Tristiana Yuniarti, Dicky Harwanto, Titik Susilowati</p> <p>Analysis of Growth Performance and Benefits of a High Density Catfish <i>Clarias gariepinus</i> Burchell Culture in Biofloc System</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2017, Vol. 137</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012026/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012026/pdf</a></p>
	<p>Fajar Basuki, Tristiana Yuniarti, Dicky Harwanto, Titik Susilowati</p> <p>Growth Performance of Catfish (<i>Clarias gariepinus</i> Burchell, 1822) Cultured in High Density on the Biofloc System</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2017, Vol. 116</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012007/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012007/pdf</a></p>
	<p>Fajar Basuki, Titik Susilowati, Dicky Harwanto</p> <p>The Performance Analysis of Hybrid Seeds Between Catfish (<i>Clarias gariepinus</i> Burchell) Semarang and Sangkuriang Strains</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2017, Vol. 139</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-">https://iopscience.iop.org/article/10.1088/1755-</a></p>

	<p><a href="http://www.bioflux.com.ro/docs/2018.868-876.pdf">1315/139/1/012002/pdf</a></p> <p>Effendi, I. J., Hutabarat, J., Ambariyanto, A., Basuki, F. Protein Content and Free Amino Acid Composition of Abalone (<i>Haliotis asinina</i>) Broodstock Fed by Different Fresh Macroalgae and Formulated Diet</p> <p>-</p> <p>Omni-Akuatika, 2018, Vol. 14, Issue 2, 100-106 <a href="http://www.bioflux.com.ro/docs/2018.868-876.pdf">http://www.bioflux.com.ro/docs/2018.868-876.pdf</a></p>
	<p>Kusna, M., Basuki, F., Saputra, S. W. Morphological Diversity of Banana Shrimp (<i>Penaeus merguensis</i> de Man 1888) in Northern And Southern Java Water Areas</p> <p>-</p> <p>International Journal of Applied Environmental Sciences, 2019, Vol. 14, Issue 4, 419-427 <a href="https://www.ripublication.com/ijaes19/ijaesv14n4_09.pdf">https://www.ripublication.com/ijaes19/ijaesv14n4_09.pdf</a></p>
	<p>Fajar Basuki, Tristiana Yuniarti, Ristiawan Agung Nugroho, Sri Hastuti Preliminary Study of Various Intervals and Administration of Feed Enriched with Turmeric and Garlic on the Growth Performance of Catfish</p> <p>-</p> <p>E3S Web of Conferences, 2020, Vol. 147 <a href="https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/07/e3sconf_ismfr20_01010.pdf">https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/07/e3sconf_ismfr20_01010.pdf</a></p>
	<p>Tristiana Yuniarti, Fajar Basuki, Sri Hastuti, Ristiawan Agung Nugroho, Shelfiya Fany The Effect of Periodical Estradiol-17<math>\beta</math> Injections with Different Doses on Java barb (<i>Puntius javanicus</i>) Gonadal Development</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2019, Vol. 530 <a href="https://iopscience.iop.org/article/10.1088/1755-1315/530/1/012041/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/530/1/012041/pdf</a></p>

	<p>Tristiana Yuniarti, Fajar Basuki, Sri Hastuti, Ristiawan Agung Nugroho, Selvi Marantika</p> <p>Reproductive Performance of Java Barb (<i>Punctius javanicus</i>) Injected sGHRH and Domperidone of Different Dosage</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2020, Vol. 750</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/750/1/012025/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/750/1/012025/pdf</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Dr.Ir.Istiyanto Samidjan,MS)

Name	Dr.Ir.Istiyanto Samidjan,MS
Post	Aquaculture
Academic career	<p>Aquatic science     <i>Institut Pertanian Bogor</i>     2000</p> <p><i>Aquatic science</i>     <i>Institut Pertanian Bogor</i>     1990</p> <p><i>Fisheries</i>     <i>Universitas Diponegoro</i>     1977</p>
Employment	Lecturer at     Diponegoro University     1983 - now Fisheries and Marine Science Faculty
Research and development projects over the last 5 years	<p>Karakteristik Induk Ikan Gabus (<i>Ophiocephalus Sp</i>) Dengan menggunakan Mikrosatelit Sebagai Dasar Dalam Upaya Pengembangan Budidaya Spesies <i>Endegeneous</i> (Ketua). 2013 - Fundamental DP2M DIKTI , Rp 37.500.000</p> <p>Pengaruh pemberian jenis pakan ikan rucah yang berbeda terhadap pertumbuhan dan kelulushidupan keong macan (<i>Babylonia spirata</i> L) pada ujicoba dibudidaya di tambak dengan system karamba (Anggota) 2010 - DIPA Fakultas Perikanan dan Ilmu Kelautan, Undip Rp 7.000.000</p> <p>Efisiensi pemanfaatan pakan buatan terhadap pertumbuhan dan kelulushidupan keong macan (<i>Babylonia spirata</i> L.) (Anggota) 2009 - DIPA Fakultas Perikanan dan Ilmu Kelautan, Undip Rp 7.000.000</p>
Industry collaborations over the last 5 years	-

Patents and proprietary rights	Pembenihan dan Pembesaran Pengembangan Ikan Kerapu, Diterbitkan oleh Badan Penerbit Universitas Diponegoro. Tahun 2002. ISBN 979-704-074-7	2002
	Suksesi karang dan upaya budidayanya dengan ikan klon  Diterbitkan badan Penerbit UNDIP tahun 2002, ISBN 979-704-080-1	2002
	Buku Ajar Menejemen Akuakultur Ikan Hias Diterbitkan badan Penerbit UNDIP tahun 2010  , ISBN 979-704-080-1	2010
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (4):</i></p> <p><b>Istiyanto Samidjan, Diana Rachmawati</b> Engineering Technology Fish Farming of Snakeheads Channa striat (Bloch, 1793) Based Feed Vitamin C Increase to Superior Quality Using Microsatellite - Omni-Akuatika, 2018, 14, 2, 1858-3873 print / 2476-9347 online <a href="http://download.garuda.ristekdikti.go.id/article.php?article=771374&amp;val=10634&amp;title=Engineering%20Technology%20Fish%20Farming%20of%20Snakeheads%20Channa%20striat%20Bloch%201793%20Based%20Feed%20Vitamin%20C%20Increase%20to%20Superior%20Quality%20Using%20Microsatellite">http://download.garuda.ristekdikti.go.id/article.php?article=771374&amp;val=10634&amp;title=Engineering%20Technology%20Fish%20Farming%20of%20Snakeheads%20Channa%20striat%20Bloch%201793%20Based%20Feed%20Vitamin%20C%20Increase%20to%20Superior%20Quality%20Using%20Microsatellite</a></p> <p><b>Istiyanto Samidjan, Diana Rachmawati</b></p>	

	<p>Engineering Technology of White Shrimp (<i>Litopenaeus vannamei</i>) Intensive System Culture with the Supplementation of Phytase Enzyme in the Diet</p> <p>-</p> <p>Omni-Akuatika, 2018, 14, 2, 1858-3873 print / 2476-9347 online</p> <p><a href="http://ojs.omniakuatika.net/index.php/joa/article/view/570/210">http://ojs.omniakuatika.net/index.php/joa/article/view/570/210</a></p>
	<p><b>Istiyanto Samidjan, Diana Rachmawati</b></p> <p>Polyculture Engineering of White Shrimp Vannamei and Seaweed on Different Plannting Distance on The Growth survival in Abration Pond</p> <p>-</p> <p>Omni Akuatika, 2018, 14, 2, 1858-3873</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/569/206">https://ojs.omniakuatika.net/index.php/joa/article/view/569/206</a></p>
	<p><b>Diana Rachmawati , Istiyanto Samidjan,</b></p> <p>The Effects of papain Enzyme Supplement in Feed on Protein Digestibility, Growth and Survival Rate In Sangkuriang Cathfish (<i>Clarias sp</i>)</p> <p>-</p> <p>Ommni Akuatika, 2018, 14, 2, 1858-3873</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/551/196">https://ojs.omniakuatika.net/index.php/joa/article/view/551/196</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Dr. Ir. Suminto, M.Sc.)

Name	Dr. Ir. Suminto, M.Sc.		
Post	Fish and Shrimp Nutrition and Live Food Organisms.		
Academic career	<i>Doctorate</i> (Marine Science and Engineering)	Nagasaki University	1994 – 1997
	<i>Magister</i> (Fisheries)	Nagasaki University	1991 – 1994
	<i>Undergraduate degree</i> (Animal Science and Fisheries)	Diponegoro University	1977 – 1984
Employment	Head of Intensive Pond R&D	PT. Seafer, Kendal	2001-2003
	Head of Coastal Area Development Research Center Laboratory in Jerpara	Faculty of Fisheries and Marine Science, Diponegoro University, Campus Jepara.	2001-2002
	Shrimp Hatchery Consultant	CV. Sari Benur	2015-2018
	Intensive - Super Intensive Shrimp Farming Consultant	MSTP – Undip, Teluk Awur Jepara	2016-2017
Research and development projects over the last 5 years	<p>Advisor Ph.D program in research thema :</p> <p>Optimized Copepod, Oithona sp culture for Live Food Organism in Hatchery of Shrimp Larval Rearing.</p> <p>Period and any other information: 2016, Advisor member Competitive Research Grant, DIPA DIKTI SIMLITABMAS Fund 2015 (Rp 50.000.000,-)</p>		
	Aplikasi Teknologi Pencucian Sel Mikroalga Pada Feeding Regime Guna Peningkatan Produksi dan Kualitas Larva		

	<p>Udang Windu</p> <p>Period and any other information : 2016, Team Leader</p> <p>Research Development and Implementation, Undip PNBPFund 2016 (Rp 47.000.000,-)</p>
	<p>Pengaruh Papain Probiotik pada Pakan Terhadap Efisiensi Pemanfaatan Pakan, Pertumbuhan, Kelulushidupan dan Profil Asam Amino Udang Vaname (<i>Litopenaeus vannamei</i>)</p> <p>2018</p> <p>-</p> <p>Research Grant of FPIK Diponegoro University (Rp 40.000.000,-)</p>
	<p>Optimasi Kultur Harpaticoida <i>Tigriopus</i> sp. sebagai Substitusi Pakan Alami Larva Udang Vaname (<i>Litopenaeus vannamei</i>)</p> <p>2019 (Tahun Pertama)</p> <p>-</p> <p>Research Development and Implementation. Source of Funds: Other APBN DPA LPPM Undip 2019 (Rp 42.500.000,-)</p>
	<p>Optimasi Kultur Harpaticoida <i>Tigriopus</i> sp. sebagai Substitusi Pakan Alami Larva Udang Vaname (<i>Litopenaeus vannamei</i>)</p> <p>2020 (tahun ke dua)</p> <p>-</p> <p>Research Development and Implementation. Source of Funds: Other APBN DPA LPPM Undip 2020 (Rp 40.000.000,-)</p>
	<p>Optimasi Kultur Harpaticoida <i>Tigriopus</i> sp. sebagai Substitusi Pakan Alami Larva Udang Vaname (<i>Litopenaeus vannamei</i>)</p> <p>2021 (Tahun Ketiga)</p> <p>-</p> <p>Research Development and Implementation. Source of Funds: Other APBN DPA LPPM Undip 2021 (Rp 40.000.000,-)</p>
Industry collaborations over the last 5 years	<p>Collaboration with Small and Medium Enterprises with catfish farmer groups of Usaha Mina, Tengeran, Semarang District and Karya Mina, Tlogowangu, Demak District, Central Java.</p>



<p>Patents and proprietary rights</p>	<p>Budidaya Pakan Alami, Mikroalgae dan Rotifer 2012</p> <p>Simple Patent No: 2019 IDS000003676. Formula Pakan Organik yang Terfermentasi Untuk Budidaya Copepoda, <i>Oithona</i> sp.</p>
<p>Important publications over the last 5 years</p>	<p><i>Selected recent publications from a total of approx. (6):</i></p> <p>Author(s): Diana Chilmawati, Suminto</p> <p>Title: The Effect of Different Diet of Phytoplankton Cells on Growth Performance of Copepod, <i>Oithona</i> sp. in Semi-Mass Culture</p> <p>Aquatic Procedia, 2016, Vol. 7, 39 – 45.</p> <p><a href="https://reader.elsevier.com/reader/sd/pii/S2214241X16300268?token=01FCD644DA5BF3247B11FDF89F16FCC3EB95FA89D18F02579D42C65DE7019219A7945435B9590A96D15E0EB4AF6F1479&amp;originRegion=eu-west-1&amp;originCreation=20211006020510">https://reader.elsevier.com/reader/sd/pii/S2214241X16300268?token=01FCD644DA5BF3247B11FDF89F16FCC3EB95FA89D18F02579D42C65DE7019219A7945435B9590A96D15E0EB4AF6F1479&amp;originRegion=eu-west-1&amp;originCreation=20211006020510</a></p> <hr/> <p>Suminto, Diana Chilmawati, Dicky Harwanto</p> <p>Effect of Different Doses of Fermented Organic Feed on the Growth Performance of <i>Oithona</i> sp. in Semi-Mass Culture Condition</p> <p>-</p> <p>Omni Akuatika, Fisheries And Marine Sciences For Nature Protection And Community Welfare, 2018, Vol. 14, Issue 3, 53-59.</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/456">https://ojs.omniakuatika.net/index.php/joa/article/view/456</a></p> <hr/> <p>Suminto, Diana Chilmawati, Titik Susilowati, I. Adhinugroho</p> <p>The Effects of Microalgal Diet With Enrichment of Fermented Organic Matters (Tofu Waste, Rice Bran and Fish Meal) on Growth and Reproduction of <i>Diaphanosoma brachyurum</i></p> <p>-</p>

	<p>4th International Conference on Tropical and Coastal Region Eco Development, IOP Conf. Series: Earth and Environmental Science, 2019, Vol. 246, 1-9.</p> <p><a href="https://www.proquest.com/docview/2557618552?pq-origsite=gscholar&amp;fromopenview=true">https://www.proquest.com/docview/2557618552?pq-origsite=gscholar&amp;fromopenview=true</a></p>
	<p>Diana Chilmawati, Johannes Hutabarat, Sutrisno Anggoro, Suminto</p> <p>Biomolecular Identification and Optimization of Growth Performance and Egg Production in <i>Oithona</i> sp. Under Different Salinity Culture Conditions</p> <p>AAFL Bioflux, 2019, Vol. 12, Issue 2, 575-585.</p> <p><a href="http://www.bioflux.com.ro/docs/2019.575-585.pdf">http://www.bioflux.com.ro/docs/2019.575-585.pdf</a></p>
	<p>Suminto, Diana Chilmawati</p> <p>Coexistence Effect of Rotifer, <i>Brachionus rotundiformis</i> and Copepod, <i>Oithona similis</i> in Culture Media on Growth Performance and Eggs Production</p> <p>Biodiversitas, 2019, Vol. 20, Issue 8, 2396-2402.</p> <p><a href="https://smujo.id/biodiv/article/view/3979/3367">https://smujo.id/biodiv/article/view/3979/3367</a></p>
	<p>Diana Chilmawati, Johannes Hutabarat, Sutrisno Anggoro, Suminto</p> <p>Effects of Aeration Flow Rate in the Culture Medium on the Growth Performance and Egg Production of Copepod <i>Oithona similis</i> Fed with Fermented Organic Diet</p> <p>E3S Web Conf, The 3<sup>rd</sup> International Symposium on Marine and Fisheries Research (3<sup>rd</sup> ISMFR), 2020, Vol. 147, 1-12.</p> <p><a href="https://doi.org/10.1051/e3sconf/202014701006">https://doi.org/10.1051/e3sconf/202014701006</a></p>
	<p>Diana Chilmawati, Johannes Hutabarat, Sutrisno Anggoro, Suminto</p> <p>Organic Feed Enrichment Effects toward Growth Performance and Egg Production of <i>Oithona similis</i></p> <p>-</p> <p>Omni Akuatika, 2020, Vol. 16, Issue 3, 128-135</p> <p><a href="http://dx.doi.org/10.20884/1.oa.2020.16.3.852">http://dx.doi.org/10.20884/1.oa.2020.16.3.852</a></p>
	<p>Diana Chilmawati, Suminto, Dicky Harwanto</p> <p>Performance of growth, nutrition value, total carotene, EPA, and DHA in eel (<i>Anguilla bicolor</i>) in the culture with</p>

	<p>enrichment of earthworm (<i>Lumbricus</i> sp.) flour</p> <p><b>AAFL Bioflux, 2021, Volume 14, Issue 3.</b></p> <p><a href="http://www.bioflux.com.ro/docs/2021.1570-1580.pdf">http://www.bioflux.com.ro/docs/2021.1570-1580.pdf</a></p>
Activities in specialist bodies over the last 5 years	<p>Membership of Indonesian Aquaculture Society</p> <p>As a member of the management of the field of organizational development and human resources</p>

### Staff Handbook (Dr.Ir. Titik Susilowati, M.Si)

Name	Dr.Ir. Titik Susilowati, M.Si									
Post	Aquaculture – Fish Production Management									
Academic career	<table> <tr> <td><i>Doctorate</i> (Coastal Resource Management)</td> <td>Diponegoro University</td> <td>2014</td> </tr> <tr> <td><i>Magister</i> (Reproductive Biology)</td> <td>IPB Bogor</td> <td>1995</td> </tr> <tr> <td><i>Undergraduate degree</i> (Aquaculture)</td> <td>Diponegoro University</td> <td>1985</td> </tr> </table>	<i>Doctorate</i> (Coastal Resource Management)	Diponegoro University	2014	<i>Magister</i> (Reproductive Biology)	IPB Bogor	1995	<i>Undergraduate degree</i> (Aquaculture)	Diponegoro University	1985
<i>Doctorate</i> (Coastal Resource Management)	Diponegoro University	2014								
<i>Magister</i> (Reproductive Biology)	IPB Bogor	1995								
<i>Undergraduate degree</i> (Aquaculture)	Diponegoro University	1985								
Employment	Lecturer at Fisheries and Marine Science Faculty Diponegoro University 1986 - now									
Research and development projects over the last 5 years	<p>Investigation of Alginate from Brown Seaweed <i>Sargasum Cristasfolium</i> as a potential Dietary Immunostimulant for Juvenile Penaeid Shrimp <i>Litopenaeus Vannamei</i> Infected by <i>Vibrio parahaemoliticus</i> (Skema Riset Publikasi Internasional)</p> <p>2016</p> <p><i>Partners:</i> - Agung Sudaryono</p> <p>Undip PNB Fund 2016 (Rp 40.000.000,-)</p> <p>Aplikasi Enzim Proteolitik Papain sebagai Growth Promotor dan Imunostimulan dalam Pakan Berbasis Protein Nabati untuk Meningkatkan Produktifitas Juvenil Udang Vaname</p>									

	<p>(<i>Litopenaeus vannamei</i>) (Skema PHB Tahun Ke-2)  2016  Partners, Agung Sudaryono  DITLITABMAS-DIKTI Fund 2016 (Rp 60.000.000,-)</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (4):</i>  Agung Sudaryono, Diana Chilmawati, Titik Susilowati  Oral Administration of Hot-Water Extract of Tropical Brown Seaweed, <i>Sargassum cristaefolium</i>, to Enhance Immune Response, Stress Tolerance and Resistance of White Shrimp, <i>Litopenaeus vannamei</i>, to <i>Vibrio parahaemolyticus</i>  -  Journal of the World Aquaculture Society, 2018, Vol. 49, Issue 5, 877-888  <a href="https://onlinelibrary.wiley.com/doi/epdf/10.1111/jwas.12527">https://onlinelibrary.wiley.com/doi/epdf/10.1111/jwas.12527</a></p>
	<p>Titik Susilowati, Agus Nadlir, Alfabetian Harjuno Condro Haditomo, Seto Windarto, Dicky Harwanto, Kurnia Adi  Production Performance of <i>Gracilaria verrucosa</i> Using Verticulture Method with Various Wide Planting Area in Karimunjawa  -  Omni Akuatika, 2019, Vol. 15, Issue 1, 47-57</p>
	<p>Titik Susilowati, Condroresmi Banor Fawwaz, Dicky Harwanto, Alfabetian Harjuno Condro Haditomo, Sarjito  Growth of Seaweed <i>Gracilaria verrucosa</i> Cultured on Different Initial Weight with Longline Methods in Karimunjawa Waters  -  Scripta Biologica, 2019, Vol. 6, Issue 4, 1-7</p>
	<p>Dicky Harwanto, Pandu Saputro, Titik Susilowati, Alfabetian</p>

<p>Harjuno Condro Haditomo, Seto Windarto</p> <p>Effect different N:P Ratios Application on the Cultivation Media for The Growth and Fiber Content of <i>Caulerpa racemosa</i> reared in Tarpaulin Ponds</p> <p>-</p> <p>AACL Biofux, 2020, Vol. 13, Issue 5, 3117-3125</p>
<p>Fajar Basuki, Tristiana Yuniarti, Dicky Harwanto, Titik Susilowati</p> <p>Growth Performance of Catfish (<i>Clarias Gariepinus</i> Burchell, 1822) Cultured in High Density on the Biofloc System</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012007/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012007/pdf</a></p>
<p>Fajar Basuki, T Susilowati, and D Harwanto</p> <p>The Performance Analysis of Hybrid Seeds Between Catfish (<i>Clarias gariepinus</i> Burchell) Semarang and Sangkuriang Strains</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/139/1/012002/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/139/1/012002/pdf</a></p>
<p>A Sudaryono, P Sukardi, E Yudiarti, EH Hardi, S Hastuti, T Susilowati</p> <p>Potential of using tropical brown macroalgae <i>Sargassum cristaefolium</i> meal in the diets for juvenile white shrimp (<i>Litopenaeus vannamei</i>)</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/144/1/012049/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/144/1/012049/pdf</a></p>
<p>F Basuki, T Yuniarti, D Harwanto and T Susilowati</p> <p>Analysis of Growth Performance and Benefits of a high density catfish <i>Clarias gariepinus</i> Burchell culture in biofloc system</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012026/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012026/pdf</a></p>
<p>T Susilowati, Desrina, J Hutabarat, S Anggoro, M Zainuri, Sarjito, F Basuki and T Yuniarti</p>

	<p>The effects of season, aeration and light intensity on the performance of pacific whiteleg shrimp (<i>Litopenaeus vannamei</i>) polycultured with seaweed (<i>Gracilaria verrucosa</i>)</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012026/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012026/pdf</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Dr. Ir. Pinandoyo, M.Si)

Name	Dr. Ir. Pinandoyo, M.Si		
Post	Aquaculture		
Academic career	The Aquatic Resources Management	<i>Universitas Diponegoro</i>	2013
	<i>Aquatic science Fisheries</i>	<i>Institut Pertanian Bogor</i>	1989 1977
		<i>Universitas Diponegoro</i>	
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	1985 - now
Research and development projects over the last 5 years	<p>Teknologi Rekayasa Media Kultur Massal <i>Daphnia</i> sp. Menggunakan Fermentasi Berbagai Limbah Peternakan Dan Industri Sebagai Sumber Pakan Alami Untuk Peningkatan Kualitas Dan Produksi Pembenihan Ikan Nila (<i>Oreochromis niloticus</i>) <b>Tahun Pertama (2016)</b></p> <p>-</p> <p><i>Partners, : Vivi E H,. Pinandoyo dan Johannes H</i></p> <p><i>Rp. 50.000.000</i></p> <p>Teknologi Rekayasa Media Kultur Massal <i>Daphnia</i> sp. Menggunakan Fermentasi Berbagai Limbah Peternakan Dan Industri Sebagai Sumber Pakan Alami Untuk Peningkatan Kualitas Dan Produksi Pembenihan Ikan Nila (<i>Oreochromis niloticus</i>) <b>Tahun Kedua</b></p> <p><b>2017</b></p> <p>-</p> <p><i>Rp. 50.000.000</i></p> <p>Optimasi Produksi Dan Kualitas Pembenihan Ikan Nila (<i>Oreochromis Niloticus</i>) Melalui Pemberian Pakan <i>Daphnia</i> sp. Hasil Kultur Massal Berbagai Limbah Organik Berbasis Perbedaan Waktu Fermentasi Menggunakan Bakteri Probiotik</p> <p>2018</p> <p>-</p>		

	<p>Rp. 90.000.000</p> <p>Kajian Kandungan Nutrisi Fermentasi Tepung <i>Lemna Minor</i> Substitusi Tepung Kedelai Sumber Protein Nabati Pada Pakan Guna Peningkatan Kualitas Produksi Pembenihan Ikan Nila (<i>Oreochromis niloticus</i>)</p> <p>2018</p> <p>-</p> <p>Rp. 78.750.000</p> <p>Penerapan Teknologi Fermentasi Tepung Magot Berbasis Media Kultur Substitusi Tepung Ikan Sumber Protein Hewni Untuk Peningkatan Kualitas dan Produksi Ikan Mas</p> <p>2018</p> <p>-</p> <p>PNBP Undip Riset Unggulan</p>
Industry collaborations over the last 5 years	
Patents and proprietary rights	<p><u>Komposisi Media</u> <span style="float: right;">2019</span></p> <p><u>Kultur <i>Daphnia Magna</i></u></p> <p><u>Dengan Fermentasi</u></p> <p><u>Limbah Sebagai Pakan</u></p> <p><u>Larva Ikan Nila</u></p>
	<p>Metode Pemberian Pakan Pembenihan Ikan Nila</p> <p>Menggunakan Fermentasi Tepung <i>Lemna Minor</i> Substitusi Tepung Kedelai</p> <p style="text-align: right;">2019</p>
	<p>Metode Modifikasi Proses Fermentasi Dengan Berbagai Limbah Organik Pada Media Kultur Massal <i>Daphnia Maghna</i></p> <p style="text-align: right;">2019</p>
	<p>Formulasi Pakan Menggunakan Tepung Maggot Substitusi Tepung Ikan Dalam</p> <p style="text-align: right;">2019</p>



	<p>Manajemen Pemberian Pakan Ikan Mas (<i>Cyprinus Carpio</i>)</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (9):</i></p> <p><b>Vivi Endar Herawati, R A Nugroho, Pinandoyo and Johannes Hutabarat</b></p> <p>Nutritional value content, biomass production and growth performance of <i>Daphnia magna</i> cultured with different animal wastes resulted from probiotic bacteria fermentation. (Penulis Anggota)</p> <p>-</p> <p>2nd International Conference on Tropical and Coastal Region Eco Development 2016. ; 2017 IOP Conf. Ser. : Earth Environ. Sci. 55 012005</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/55/1/012004/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/55/1/012004/pdf</a></p> <p><b>Pinandoyo Pinandoyo, Johannes Hutabarat, Ristiawan Agung Nugroho, Vivi Endar Herawati</b></p> <p>Effect of Vitamin C in High Energy Feeds on Growth and Survival Rte of Tiger Grouper Seeds (<i>Ephinepelus fuscogutatus</i>) (First Author)</p> <p>-</p> <p>April 2017 Aquasains Vol 5 No 2</p> <p><a href="http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1433/1309">http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1433/1309</a></p> <p><b>Ristiawan Agung Nugroho, Pinandoyo Pinandoyo, Tristiana Yuniarti, Vivi Endar Herawati</b></p> <p>Deposit Structure Character Caco3 On The Shells Of Scallop (<i>Amusium Pleuronectes</i>) As Bio-Indicators Of Environmental Conditions In The Batang Waters (Second Author)</p> <p>-</p> <p>April 2017 Aquasains Vol 5 No 2</p> <p><a href="https://123dok.com/document/qvrg9rly-deposit-structure-character-scallop-pleuronectes-indicators-environmental-conditions.html">https://123dok.com/document/qvrg9rly-deposit-structure-character-scallop-pleuronectes-indicators-environmental-conditions.html</a></p> <p><b>Pinandoyo, Vivi Endar Herawati and Ristiawan Agung Nugroho</b></p> <p>The Effect od Different Additions of Curcuma Extract (<i>Curcuma</i></p>

*Xanthorrhiza* Roxb) In Artificial Feed On The Growth and Immunity of Juvenile Tiger Shrimp (*Penaeus Monodon*)

(Penulis : Author Coresponding)

*Environment and Conservation Paper*, 25 (2) : 488 – 496 . 2019

[http://www.envirobiotechjournals.com/article\\_abstract.php?aid=9603&iid=275&jid=3](http://www.envirobiotechjournals.com/article_abstract.php?aid=9603&iid=275&jid=3)

**Pinandoyo, Johannes Hutabarat, Darmanto, Ocky K. Radjasa, Vivi E. Herawati**

Growth and nutrient value of Tilapia (*Oreochromis Niloticus*) fed with lemna minor meal based on different fermentation time

(Penulis : Author Coresponding)

*AAFL BIOFLUX*

**International Journal of the Bioflux Society 12 (1) : 191-200.**

**2019**

<http://www.bioflux.com.ro/docs/2019.191-200.pdf>

**Pinandoyo, Johannes Hutabarat, YS Darmanto and Vivi Endar Herawati**

The effect of fish meal and milkfish offal meal combination in different artificial feeds on growth and survival rate of tiger shrimp (*Penaeus Monodon*)

(Penulis : Author Coresponding)

<https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012063/pdf>

IOP Conf. Series :Earth and Enviromental Science 246 (2019)

**Pinandoyo, Dicky Harwanto, Seto Windarto and Vivi Endar Herawati**

The Effect of addition Tyrosinhormone on growth and the survival rate of giant prawn *Macrobrachium rosenbergii*

(Penulis utama: Author Coresponding)

*Internasional Journal of Fisheries and Aquatic Studies* 8 (6) :84-87 (2020)

<https://www.fisheriesjournal.com/archives/2020/vol8issue6/PartB/8-6-5-845.pdf>

	<p><b>Pinandoyo, Vivi E. Herawati, Johannes Hutabarat, Seto Windarto</b></p> <p>Application of Indian nettle (<i>Acalypha indica</i>) and mung bean sprouts (<i>Vigna radiata</i>) as a source of plant protein to improve gourami (<i>Osphronemus gouramy</i>) production</p> <p>(Penulis : Author Coresponding)</p> <p><i>AAACL BIOFLUX</i></p> <p><b>International Journal of the Bioflux Society 19 (1) : 141 – 150 (2021)</b></p> <p><a href="http://bioflux.com.ro/docs/2021.141-150.pdf">http://bioflux.com.ro/docs/2021.141-150.pdf</a></p>
	<p><b>Pinandoyo, V. E. Herawati, J. Hutabarat, Dicky Harwanto</b></p> <p>The Effect of Additional Probiotic on Different Media to Gourami Fish <i>Osphronemus goramy</i>; Lacepede, 1801 Efficiency of Feed and Growth</p> <p>Penulis utama: Author Coresponding)</p> <p><i>Journal of Hunan University Vol.48 No. 5. May 2021</i></p> <p><a href="http://jonuns.com/index.php/journal/article/view/591/588">http://jonuns.com/index.php/journal/article/view/591/588</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Organisation: MAI, Role Period 2008-2021</i></p> <p><i>ISPIKANI, KERAPU</i></p>

**Staff Handbook (Dr. Ir. Sarjito, M.App.Sc)**

Name	<b>Dr. Ir. Sarjito, M.App.Sc</b>		
Post	Aquaculture		
Academic career	Aquaculture	<i>Universitas Diponegoro</i>	2010
	<i>Aquaculture</i>	University of Tasmania Australia	1994
	<i>Fisheries</i>	<i>Universitas Diponegoro</i>	1986
Employment	Lecturer at Fisheries and Marine Science Faculty	<i>Universitas Diponegoro</i>	1987 - now
Research and development projects over the last 5 years	Name of project or research focus:		
	Studi Keanekaragaman Genetik Agenia Penyebab Sebagai Upaya Pengendalian Penyakit Bakteri di Sentral Produksi Lele Kabupaten Boyolali, Demak dan Kendal (Tahun ke 2)		
	2016		
	-		
Rp.50.000.000,-			
Ditlittabmas ,Dikti			
Kajian Agenia Penyakit Jamur Pada Ikan Secara molekuler			
2018			
-			
Hibah FPIK			
Peforma Campuran Ekstrak Obat Herbal Dalam Pakan Terhadap Pertumbuhan Dan Kelulushidupan Ikan Lele ( <i>Clarias Batrachus</i> ) Yang Diinfeksi Bakteri <i>Aeromonas Hydrophila</i>			
2019			
-			
Hibah FPIK			

	<p>Perfoman Pertumbuhan dan sitem immune benih ikan lele Sangkuriang (<i>Clarias gariepinus</i> Var. Sangkuriang ) melalui Penambahan Ragi Roti (<i>Sacharomyces cerevisiae</i>) Sebagai Upaya Percepatan Produksi (tahun 1)</p> <p>2020</p> <p>Pembudidaya Di Rowosari Kendal</p> <p>-</p> <p>Ditlittabmas ,Dikti</p>
	<p>kajian parasit pada kerang darah (anadara granosa)</p> <p>2020</p> <p>-</p> <p>hibah fpik</p>
	<p>Perfoman Pertumbuhan dan sitem imune benih ikan lele Sangkuriang (<i>Clarias gariepinus</i> Var. Sangkuriang ) melalui Penambahan Ragi Roti (<i>Sacharomyces cerevisiae</i>) Sebagai Upaya Percepatan Produksi (tahun 2)</p> <p>2021</p> <p>Partners : Pembudidaya Di Rowosari Kendal</p> <p>Rp. 121.180.000</p> <p>Ditlittabmas ,Dikti</p>
	<p>The Development of Sponge-Associated Bacteria Microencapsulation as Biocontrol Agent of Vibriosis in <i>Litopenaeus vannamei</i></p> <p>2021</p> <p>Rp. 70.000.000</p> <p>Research Publikasi Internasional Universitas Diponegoro</p>

	<p>Penggunaan Campuran Herbal Berbasis Ekstrak Daun Bidara Arab (<i>Zizhipus Spina-Christi</i>) Untuk Pengobatan Ikan Patin (<i>Pangasius Sp.</i>) Yang Diinfeksi Bakteri <i>Aeromonas Hydrophila</i> 2021</p> <p>-</p> <p>hibah fpik</p>
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (11):</i></p> <p><b>Sarjito, AHC. Haditomo, D.Desrina, F.B., Ferindeka, L.Setyanngsih</b></p> <p>Ectoparasites and Vibrios Assosiated with Fattening Cultured Mud Crabs (<i>Scylla serrata</i> (Forkshal, 1775) From Pemalang Coast, Indonesia .</p> <p>-</p> <p>Jurnal Teknologi 78(4 -2) 2016</p> <p><a href="https://journals.utm.my/jurnalteknologi/article/view/8209/4954">https://journals.utm.my/jurnalteknologi/article/view/8209/4954</a></p> <p><b>Sarjito, AH. Haditomo, RW. Ariyati, Sb. Prayitno,</b></p> <p>The diversity of Cusative agent Associated with Bacterial Diseases on cat Fish (<i>Clarias gariepinus</i>) With Molecular Based From Kendal</p> <p>-</p> <p>Advance Sience Letter 23(7) : 6479 -6482, 2017</p> <p><a href="http://eprints.undip.ac.id/58286/1/The_diversity_of_Causative_Agent_Associateg_with_Bacterial_Diseases_on_Catfish_with_Molecular_Based_from_Kendal%2C_Indonesia.pdf">http://eprints.undip.ac.id/58286/1/The_diversity_of_Causative_Agent_Associateg_with_Bacterial_Diseases_on_Catfish_with_Molecular_Based_from_Kendal%2C_Indonesia.pdf</a></p> <p><b>A. Sabdono, DP. Wijayanti, S.Sarjito,</b></p> <p>Antipathogenic Activityof Bacteria Assosisted With Acropoid Coral Against Black Band Disease of Karimunjawa, Indonesia</p>

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Research Journal of Microbiology 12 (2) : 154 -160, 2017

<https://docsdrive.com/pdfs/academicjournals/jm/2017/154-160.pdf>

**Sarjito, AHC. Haditomo, Desrian, S. B. Prayitno,**

Diversity of Causative Agent Associated With Diseases on Cat fish (*Clarie gariepinus* with Moleculer Based From Demak Indonesia

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Omni akuatika 14(2) : 100 -106, 2018

<https://ojs.omniakuatika.net/index.php/joa/article/view/553/197>

**Artanto, Y.H., Prayitno SB, Sarjito, Desrina, Haditomo, A.C.,**

Molecular Characteristic of Indonesian *Enterocytozoonhepatopanei* Isolates based on Srquence Analysisi on spore Wall protein gene.

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AACL Bioflux 12 (5) : 2015 – 2019

<http://www.bioflux.com.ro/docs/2019.2004-2014.pdf>

**YK. Artatnto, SB. Prayitno, S. Sarjito, Desrina, AHC. Haditoo,**

Molecular Characteristics of Indonesiian Isolat Enterocytozoon hepatopenai Based on Sequence Analysisi 18 S RNA Genes

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Omni Akuatika 15(1) 93 – 102, 2019

<http://ojs.omniakuatika.net/index.php/joa/article/view/694/241>

**Sarjito, AHC. Haditomo, K. Erlynda., Desrina, SB. Prayitno,**

Role of Gracillaria verrucossa in the feed as Immunosimulanof white shrimp (litopenaeous vannamei) Infected Vibrio harveyi.

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Advanced in Animal and Vetenary Scienced 8 (12) : 1427 -1434, 2020

[http://nexusacademicpublishers.com/uploads/files/AAVS\\_8\\_12\\_1427-1434.pdf](http://nexusacademicpublishers.com/uploads/files/AAVS_8_12_1427-1434.pdf)

**Sarjito, Wati, R.K., Haditomo, AHC., Desrina, Sabdaningsih, Prayitno, SB.,**

Patogenicity of Bacterial Isolate GM O\01 In Gouramy (*Ospronemos gouramy*).

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AACI Bioflux 13 (2) : 669 -683, 2020

<http://www.bioflux.com.ro/docs/2020.669-683.pdf>

**Susilowati, D. Harwanto, CB. Fawawz, Sarjito, AHC. Haditomo,**

Growth of Seweed *Gracillaria verrucossa* Cultured of Different intial Weight With Long line Methods in Karimunjawa Waters,

-

Scripta Biologica 6(4), 2020

<https://journal.bio.unsoed.ac.id/index.php/scribio/article/view/1120/pdf>

**A. Trianto, Ambariyanto, Sarjito, R, Pramesti, N, Soenarjo, R, Hartati, N. Taufiq SPJ., Sarjito, H, Endrawati,**

Ecological Studiy and Prelimenary Culture of the sponge *Candidaspongia* a Source of anticancer molecules

-

AACL 13(1), 36 – 45, 2020

<http://www.bioflux.com.ro/docs/2020.36-45.pdf>

**D.Desrina, SB. Prayitno, AHC. Haditoo, . Latritiani, S. Sarjito,**

Detection of Enterocytozoon hepatopenaei(EHP) DNA in the Polychaetes From Shrimp pond Suffering Wite feces Syndome Out break .

-

Biodiversitas Journal of Biological Diversity 21 (1) , 2020

<https://smujo.id/biodiv/article/view/4304/3612>

Sarjito Sarjito , Agus Sabdono



	<p>Associated Vibrio Species in Shrimp Vibriosis from Traditional Brackish Water Pond in the North Coastal of Central Java, Indonesia  <i>Genetics of Aquatic Organisms 2021, Vol 5, Num, 2 (Pages: 45-54)</i></p> <p><a href="https://www.genaqua.org/abstract.php?id=49">https://www.genaqua.org/abstract.php?id=49</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Ispikani Jawa Tengah                      Advokasi      2017 - 2021</i></p>

### Staff Handbook (Dr.Ir. Subandiyono, MAppSc.)

Name	<i>Dr.Ir. Subandiyono, MAppSc.</i>		
Post	<i>Fisheries/Nutrition and Fish Feed</i>		
Academic career	<i>Aquatic science</i>	<i>Institut Pertanian Bogor</i>	<i>2004</i>
	<i>Aquaculture</i>	<i>University of Tasmania</i>	<i>1994</i>
	<i>Aquaculture</i>	<i>(UNITAS), Australia</i>	<i>1987</i>
		<i>Institut Pertanian Bogor</i>	
Employment	<i>Lecturer at Fisheries and Marine Science Faculty</i>	<i>Undip</i>	<i>1988 - now</i>
Research and development projects over the last 5 years	<p><i>Teknologi biofloc pada budidaya ikan lele dumbo (<i>Clarias gariepinus</i>, Burch) superintensif dalam upaya memaksimalkan produksi serta mendukung ketahanan dan keamanan pakan nasional. Tahun II</i></p> <p><i>2016</i></p> <p><i>Partners, :-Lelana Farm, Boyolali</i></p> <p><i>Rp.185.000.000</i></p> <p><i>Stratnas,Dikti</i></p> <p><i>Aplikasi Sistem Biofilter Akuaphonik pada Budidaya Ikan Nila (<i>Oreochromis niloticus</i>) sebagai Upaya Memaksimalkan Produksi dan Efisiensi Pemanfaatan Pakan</i></p> <p><i>2018</i></p> <p><i>-</i></p> <p><i>PNBP Undip</i></p>		
Industry collaborations over the last 5 years	<i>-</i>		
Patents and proprietary rights	<i>NUTRISI IKAN (246 hlm.) Rev II</i>		<i>2015/2016</i>
	<i>BERONANG. Serta prospek budidaya laut di Indonesia. (85 hlm.). Rev. II</i>		<i>2016/2017</i>

	<p>Teknologi Tepat Guna BUDIDAYA IKAN SISTIM IMTA (INTEGRATED MULTI-TROPHIC AQUACULTURE) 2016/2017</p> <p>Teknologi Tepat Guna APLIKASI PROBIOTIK DALAM PAKAN PADA BUDIDAYA IKAN LELE (<i>Clarias gariepinus</i>, Burchel) 2020</p> <p>APLIKASI TEKNOLOGI INTENSIF PADA BUDIDAYA IKAN NILA DI SALURAN IRIGASI 2021</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (12):</i></p> <p><b>Endah Heryastuti, Sutrisno Anggoro, Subandiyono.</b> Efficiency and energetics of artemia (<i>Artemia salina</i>) cysts hatching in different osmolarity media. - J. Perikanan UGM, 2016, 1(1): 27-30. DOI: <a href="https://doi.org/10.22146/jfs.25624">https://doi.org/10.22146/jfs.25624</a></p> <hr/> <p><b>Sri Hastuti, Subandiyono.</b> Application of biofloc technology in intensive farming affected production and blood performance of the catfish (<i>Clarias gariepinus</i>, Burchell, 1822). - JTM Malaysia, 2016, 78:(4–2) 221–226. <a href="https://journals.utm.my/jurnalteknologi/article/view/8212">https://journals.utm.my/jurnalteknologi/article/view/8212</a></p> <hr/> <p><b>Subandiyono, Sri Hastuti.</b> Trivalent chromium (Cr<sup>+3</sup>) in dietay carbohydrate and its effect on the growth of commonly cultivated fish. - JTM Malaysia, 2016, 78:(4–2) 233–237 <a href="https://journals.utm.my/index.php/jurnalteknologi/article/view/8214">https://journals.utm.my/index.php/jurnalteknologi/article/view/8214</a></p> <hr/> <p><b>Fajar Basuki, Sri Hastuti, Subandiyono, Wartono Hadie.</b> The Growth performance of <i>Larasati tilapia</i> (<i>Oreochromis niloticus</i> Linnaeus, 1758) farming using bioflocs technology. -</p>

Omni-Akuatika, 2017, 13 (2): 16-24

<http://ojs.omniakuatika.net/index.php/joa/article/view/247/147>

**Subandiyono, Sri Hastuti, Ristiawan Agung Nugroho.**

Feed utilization efficiency and growth of Java barb (*Puntius javanicus*) fed on dietary pineapple extract.

-

AAFL BIOFLUX, 2018, 11(2):309-318

<http://www.bioflux.com.ro/home/volume-11-2-2018/>

**Sri Hastuti, Subandiyono.**

Haematological parameters of the North African catfish *Clarias gariepinus* farmed using biofloc technology.

-

AAFL BIOFLUX, 2018, 11(4):1415-1424

<http://www.bioflux.com.ro/home/volume-11-4-2018/>

**Fitria Aditama, Johannes Hutabarat, Subandiyono Subandiyono.**

Application of protease enzymes in protein utilization at growth of white snapper fish (*Lates calcalifer*)

-

Scripta Biologica, 2018, 5(2)

<https://journal.bio.unsoed.ac.id/index.php/scriblio/article/view/655/0>

**Adi Susanto, Johannes Hutabarat, Sutrisno Anggoro, Subandiyono.**

The effects of dietary protein level on the growth, protein efficiency ratio and body composition of juvenile kelabau (*Osteochilus melanopleurus*).

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AAFL BIOFLUX, 2019, 12(1):320-326.

<http://www.bioflux.com.ro/home/volume-12-1-2019/>

**Sri Hastuti, Subandiyono Subandiyono, Seto Windarto.**

Blood performance of jaundice catfish *Clarias gariepinus*.

-

AAFL BIOFLUX, 2019, 12(2):480-489.

<http://www.bioflux.com.ro/home/volume-12-2-2019/>

**Alfian Adi Prakoso, Joko Suprpto and Subandiyono.**

Influence of protein and the level of energy-protein feed ratio on growth of banana shrimp (*Fenneropenaeus merguensis* de Man).

-

Internat. J. Fisheries and Aquatic Studies, 2020, 8(4):280-287

**Adi Susanto, Johannes Hutabarat, Sutrisno Anggoro, Subandiyono.**

The effects of dietary carbohydrate level on the growth performance, body composition and feed utilization of juvenile Kelabau (*Osteochilus melanopleurus*).

-

AAFL BIOFLUX, 2020, 13(4):2061-2070.

<http://www.bioflux.com.ro/home/volume-13-4-2020/>

**S. Subandiyono, Sri Hastuti.**

Dietary protein levels affected on the growth and body composition of tilapia (*Oreochromis niloticus*).

-

AAFL BIOFLUX, 2020, 13(5):2468-2476

<http://www.bioflux.com.ro/docs/2020.2468-2476.pdf>

**Sri Hastuti, Subandiyono Subandiyono.**

Blood serum biochemistry responses and digestive enzyme activities of tilapia (*Oreochromis niloticus*) according to different dietary protein level consumption.

-

AAFL BIOFLUX, 2020, 13(6):3566-3573.

<http://www.bioflux.com.ro/docs/2020.3566-3573.pdf>

**Sri Hastuti, Subandiyono Subandiyono**

Aminotransferase, hematological indices and growth of tilapia (*Oreochromis niloticus*) reared in various stocking densities in aquaponic systems

AAFL Bioflux, 2020, Volume 13, Issue 2. 813-824

<http://www.bioflux.com.ro/aacl>

	<p><b>Diana Chilmawati, Suminto, Subandiyono, Dicky Harwanto</b></p> <p>Performance of growth, nutrition value, total carotene, EPA, and DHA in eel (<i>Anguilla bicolor</i>) in the culture with enrichment of earthworm (<i>Lumbricus</i> sp.) flour.</p> <p>AACL Bioflux 14(3):1570-1580.</p> <p><a href="http://www.bioflux.com.ro/home/volume-14-3-2021/">http://www.bioflux.com.ro/home/volume-14-3-2021/</a></p>		
Activities in specialist bodies over the last 5 years	Pusat Pengembangan Aktivitas Instruksional, Lembaga Pengembangan dan Penjaminan Mutu Pendidikan (LP2MP), Universitas Diponegoro.	Kepala	2009 – 2012
	Pusat Pengembangan Aktivitas Instruksional, Lembaga Pengembangan dan Penjaminan Mutu Pendidikan (LP2MP), Universitas Diponegoro.	Kepala	2013 – 2016
	Pusat Pengembangan Aktivitas Instruksional, Direktorat Pengembangan Pembelajaran dan Kerjasama Akademik (DP2KA), Universitas Diponegoro.	<i>Kepala</i>	2016 – 2021

## Staff Handbook (Dr. Ir.Sri hastuti, MSi.)

Name	Dr. Ir.Sri hastuti, MSi.		
Post	Aquaculture		
Academic career	Aquatic Science	Institut Pertanian Bogor	2000
	Aquatic Science	Institut Pertanian Bogor	1994
	<i>Aquaculture</i>	Institut Pertanian Bogor	1982
		Institut Pertanian Bogor	
Employment	Lecturer at Fisheries and Marine Science Faculty	<i>Undip</i>	1988- now
Research and development projects over the last 5 years	Lele kuning, Joundice catfish. 2010 Rp. 100.000.000,-		
	Teknologi eliminasi lele kuning dan peningkatan produksi ikan budidaya untuk mendukung ketahanan dan keamanan pangan nasional 2012-2013 <i>Partners :-</i> Rp. 200.000.000,-		
	Performa enzim aminotransferase serum darah ikan lele dumbo ( <i>Clarias gariepinus</i> , 2014 <i>Partners:-</i> Rp. 50.000.000,-		
	Performa biofisiologis ikan nila larasati ( <i>oreocromis nilotikus</i> ) yang dipelihara dalam sistim biofloc 2014 <i>Partners:-</i> Rp. 45.000.000,-		
	Teknologi biofloc pada budidaya ikan lele dumbo ( <i>Clarias gariepinus</i> , Burch) superintensif dalam upaya memaksimumkan produksi serta mendukung ketahanan dan keamanan pangan Nasional 2015-2016 <i>Partners -Lelana farm,Boyolali</i>		

	<i>Rp. 185.000.000</i>	
	<p>Aplikasi Sistem Biofilter Akuaponik Pada Budidaya ikan Nila (<i>Oreocromis niloticus</i>) Sebagai Upaya Memaximumkan Produksi dan Efisiensi Pemanfaatan Sumberdaya</p> <p>2017</p> <p>-</p> <p>Rp. 40.000.000</p>	
Industry collaborations over the last 5 years		
Patents and proprietary rights	Buku Ajar 'Nutrisi Ikan' (Penulis anggota)	2010
	Buku Ajar 'Nutrisi Ikan' (Penulis Anggota)	2009
	Teknologi Tepat Guna: Budidaya Ikan lele Hygienis (penulis utama)	2013
	Beronang serta Prospek Budidaya Laut di Indonesia (penulis anggota)	2014
	Teknologi biofloc pada Budidaya Ikan (penulis utama)	2015
	Teknologi tepat guna aplikasi probiotik dalam pakan pada budidaya ikan lele ( <i>Clarias gariepinus</i> , Burchel). (penulis utama)	2020
	Aplikasi teknologi intensif pada budidaya ikan nila di saluran irigasi (Penulis utama)	2021
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (6):</i></p> <p><b>Hastuti, Sri and Subandiyono</b></p> <p>Application Of Biofloc Technology In Intensive Farming Affected Production And Blood Performances Of The Catfish [<i>Clarias gariepinus</i> (Burchell, 1822)]</p> <p>-</p>	



Jurnal Teknologi (Sciences & Engineering) 78:4–2 (2016) 221–226

[http://eprints.undip.ac.id/57901/1/201602-BIOFLOC\\_TECHNOLOGY\\_\(Internasional\).pdf](http://eprints.undip.ac.id/57901/1/201602-BIOFLOC_TECHNOLOGY_(Internasional).pdf)

**Subandiyono, Sri Hastuti**

Trivalent Chromium (Cr+3) In Dietary Carbohydrate And Its Effect On The Growth Of Commonly Cultivated Fish

-

Jurnal Teknologi (Sciences & Engineering) 78:4–2 (2016) 233–237

[http://eprints.undip.ac.id/57900/1/201602-TRIVALENT\\_CHROMIUM\\_\(Internasional\).pdf](http://eprints.undip.ac.id/57900/1/201602-TRIVALENT_CHROMIUM_(Internasional).pdf)

**Fajar Basuki, Sri Hastuti, Subandiyono Subandiyono, Wartono Hadie**

The Growth Performance of Larasati tilapia (*Oreochromis niloticus* Linnaeus, 1758) Farming Using Bioflocs Technology

-

Omni-Akuatika, 13 (2): 16–24 , 2017

<https://ojs.omniakuatika.net/index.php/joa/article/view/247/147>

**Sri Hastuti, Subandiyono**

Haematological parameters of the North African catfish *Clarias gariepinus* farmed using biofloc technology

-

ACL Bioflux, 2018, Volume 11, Issue 4. 1415-1424

**Subandiyono, Sri Hastuti, Ristiawan Agung Nugroho**

Feed utilization efficiency and growth of Java barb (*Puntius javanicus*) fed on dietary pineapple extract

-

AAFL Bioflux, 2018, Volume 11, Issue 2 309-318

<http://www.bioflux.com.ro/docs/2018.309-318.pdf>

**A Sudaryono, P Sukardi, E Yudiarti, E H Hardi, S Hastuti and T Susilowati**

Potential of using tropical brown macroalgae *sargassum cristaefolium* meal in the diets for juvenile white shrimp (*litopenaeus vannamei*)

-

IOP Conf. Series: Earth and Environmental Science 144 (2018) 012049 2018

<https://iopscience.iop.org/article/10.1088/1755-1315/144/1/012049/pdf>

**Sri Hastuti, Subandiyono Subandiyono, Seto Windarto**

Blood performance of jaundice catfish *Clarias gariepinus*

AAFL Bioflux, 2019. Volume 12 Issue 2: 480-489

Link: <http://www.bioflux.com.ro/docs/2019.480-489.pdf>

**Sri Hastuti, Subandiyono Subandiyono**

Aminotransferase, hematological indices and growth of tilapia (*Oreochromis niloticus*) reared in various stocking densities in aquaponic systems

AAFL Bioflux, 2020, Volume 13, Issue 2. 813-824

<http://www.bioflux.com.ro/docs/2020.813-824.pdf>

**Fajar Basuki<sup>1,\*</sup>, T Yuniarti<sup>1</sup>, Ristiawan AN<sup>1</sup>, and Sri Hastuti<sup>1</sup>.**

Preliminary Study of Various Intervals and Administration of Feed Enriched with Turmeric and Garlic on the Growth Performance of Catfish

E3S Web of Conferences 147, 01010 (2020) 3rd ISMFR

[https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/07/e3sconf\\_ismfr20\\_01010.pdf](https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/07/e3sconf_ismfr20_01010.pdf)

**S.Subandiyono, Sri Hastuti**

Dietary protein levels affected on the growth and body composition of tilapia (*Oreochromis niloticus*)

AAFL Bioflux, 2020, Volume 13, Issue 5. 2468-2476.

<http://www.bioflux.com.ro/docs/2020.2468-2476.pdf>

**Tristiana Yuniarti\*, Fajar Basuki, Sri Hastuti, Ristiawan Agung Nugroho and Shelfiya Fany**

The effect of periodical estradiol-17 $\beta$  injections with different doses on Java barb (*Puntius javanicus*) gonadal development

The 5th International Conference on Tropical and Coastal Region Eco Development

IOP Conf. Series: Earth and Environmental Science 530 (2020) 012041

<https://iopscience.iop.org/article/10.1088/1755-1315/530/1/012041/pdf>

**R A Nugroho, T Yuniarti, F Basuki, S Hastuti, Listiarini**

Use of periodically hCG hormones injection for the gonadal development of java barb (*Puntius javanicus*) as bioreproduction applied on aquaculture

	<p>ISNPINSA 2020  Journal of Physics: Conference Series 1943 (2021) 012078  <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1943/1/012078/pdf">https://iopscience.iop.org/article/10.1088/1742-6596/1943/1/012078/pdf</a></p> <hr/> <p><b>Ariska Nur Oktavia, Sri Hastuti*, Dicky Harwanto</b>  The Role of Filter with Different Media Compositions on Water Quality and Survival of Pangasius (Pangasius sp.) in Recirculation Aquaculture System</p> <p>Omni-Akuatika Vol. 17 No. 1 May 2021: 8 – 18  <a href="http://ojs.omniakuatika.net/index.php/joa/article/view/824/337">http://ojs.omniakuatika.net/index.php/joa/article/view/824/337</a></p> <hr/> <p><b>Sri Hastuti, Subandiyono Subandiyono</b>  Blood serum biochemistry responses and digestive enzyme activities of tilapia (Oreochromis niloticus) according to different dietary protein level consumption</p> <p>AAFL Bioflux, 2020, Volume 13, Issue 6. 3566-3573.  <a href="http://www.bioflux.com.ro/docs/2020.3566-3573.pdf">http://www.bioflux.com.ro/docs/2020.3566-3573.pdf</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Dr. Ir. Diana Rachmawati, M.Si.)

Name	Dr. Ir. Diana Rachmawati, M.Si.		
Post	Fish Nutrition		
Academic career	<i>Doctorate (Coastal Resource Management)</i>	Diponegoro University	2009 – 2012
	<i>Magister (Fish Nutrition)</i>	Bogor Agricultural Institute	1992 – 1996
	<i>Undergraduate degree (Aquaculture)</i>	Bogor Agricultural Institute	1983 – 1987
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	1990 - now
Research and development projects over the last 5 years	<p>Aplikasi Enzim Fitase Sebagai Pemacu Pertumbuhan dan Imunostimulan dalam Pakan Buatan Bebas Sumber Protein Nabati untuk Upaya Peningkatan Produksi Udang Windu (<i>Penaeus monodon</i>)</p> <p>2016</p> <p>-</p> <p>DIPA UNDIP (Rp. 40.000.000,-)</p>		
	<p>Pengaruh Suplementasi <i>Sachraomyces cereviceae</i> Pada Pakan Buatan Terhadap Kecernaan Protein, Pertumbuhan dan Profil Darah Ikan Tawes (<i>Puntius javanicus</i>) sebagai Upaya Percepatan Produksi</p> <p>2019</p> <p>-</p> <p>FPIK Grant (Rp. 40.000.000,-)</p>		
	<p>Performan Pertumbuhan dan Profil Asam Amino Lele Sangkuriang (<i>Clarias</i> sp.) melalui Suplementasi Enzim Protease Papain dalam Pakan Buatan sebagai Upaya untuk Percepatan Produksi (Tahun I)</p> <p>2019</p> <p>-</p> <p>KEMENRISTEKDIKTI (Rp. 40.000.000,-)</p>		

	<p>Performan Pertumbuhan dan Profil Asam Amino Lele Sangkuriang (<i>Clarias</i> sp.) Melalui Suplementasi Enzim Protease Papain dalam Pakan Buatan sebagai Upaya untuk Percepatan Produksi (Tahun II)</p> <p>2020</p> <p>-</p> <p>KEMENDIKBUD (Rp. 80.000.000,-)</p>
	<p>Performan Pertumbuhan dan Sistem Imun Benih Ikan Lele Sangkuriang (<i>Clarias gariepinus</i> var. Sangkuriang) Melalui Penambahan Ragi Roti (<i>Saccharomyces cerevisiae</i>) sebagai Upaya Percepatan Produksi (Tahun I)</p> <p>2020</p> <p>-</p> <p>KEMENDIKBUD (Rp. 90.000.000,-)</p>
	<p>Efisiensi Pemanfaatan Pakan, Performan Pertumbuhan dan Profil Asam Amino Ikan Patin (<i>Pangasius hypophthalmus</i>) Melalui Suplementasi Asam Amino Lisin Dalam Pakan sebagai Upaya Percepatan Produksi (Tahun I)</p> <p>2020</p> <p>-</p> <p>Sources of Funds in Addition to APNPB Diponegoro University (Rp. 42.500.000,-)</p>
	<p>Efisiensi Pemanfaatan Pakan, Performan Pertumbuhan dan Profil Asam Amino Ikan Patin (<i>Pangasius hypophthalmus</i>) Melalui Suplementasi Asam Amino Lisin dalam Pakan sebagai Upaya Percepatan Produksi (Tahun II)</p> <p>2020</p> <p>-</p> <p>Sources of Funds in Addition to APNPB Diponegoro University (Rp. 40.000.000,-)</p>
	<p>Suplementasi Asam Amino Lisin dalam Pakan Terhadap Kecernaan Protein, Efisiensi Pemanfaatan Pakan, Pertumbuhan dan Profil Ikan Lele Sangkuriang (<i>Clarias gariepinus</i> var. Sangkuriang) sebagai Upaya Percepatan Produksi</p> <p>2021</p> <p>-</p> <p>Ministry of Research and Technology / National Research and</p>

	Innovation Agency (Rp. 98.000.000,-)
Industry collaborations over the last 5 years	-
Patents and proprietary rights	Kebutuhan Nutrisi Ikan (Penulis Pertama) 2020
	PERANAN ENZIM PAPAN DALAM BUDIDAYA IKAN 2020
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (20):</i></p> <p>Diana Rachmawati, Istiyanto Samidjan</p> <p>The Dietary Protein Requirement in Formulated Feed for Specific Growth, Digestibility and Survival of Spiral Babylon (<i>Babylonia spirata</i>)</p> <p>-</p> <p>Jurnal Teknologi, 2016, Vol. 78, Issue 4, 39-43</p> <p><a href="https://journals.utm.my/jurnalteknologi/article/view/8150/4923">https://journals.utm.my/jurnalteknologi/article/view/8150/4923</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan</p> <p>Effect of Phytase Enzyme on Growth Boost in the Artificial Feed Made of Plant Protein to Shorten Production Time of Giant Tiger Prawn [<i>Penaeus monodon</i>, (Fabricus 1798)]</p> <p>-</p> <p>Aquatic Procedia, 2016, Vol. 7, 46-53</p> <p><a href="https://reader.elsevier.com/reader/sd/pii/S2214241X1630027X?token=61C0AF32D1BC3E649E6C4FE3003BEFD9DB3C9CA729370F93EFF98E9F24B4CF3823CDC1AE7EAD2D733409DFCF1A64DC17&amp;originRegion=eu-west-1&amp;originCreation=20211006061509">https://reader.elsevier.com/reader/sd/pii/S2214241X1630027X?token=61C0AF32D1BC3E649E6C4FE3003BEFD9DB3C9CA729370F93EFF98E9F24B4CF3823CDC1AE7EAD2D733409DFCF1A64DC17&amp;originRegion=eu-west-1&amp;originCreation=20211006061509</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan</p> <p>Technology Engineering of Aquaculture Snakeheads [<i>Channa striatus</i> (Bloch, 1793)] using Cross Breeding from Different Waters for Determining the Genetic Variation of Superior Seed</p> <p>-</p> <p>Aquatic Procedia, 2016, Vol. 7, 136-145</p> <p><a href="https://reader.elsevier.com/reader/sd/pii/S2214241X16300402?token=A27EA694130A6B7B92666DC8FE6B997E151A196F94C498">https://reader.elsevier.com/reader/sd/pii/S2214241X16300402?token=A27EA694130A6B7B92666DC8FE6B997E151A196F94C498</a></p>

	<a href="https://doi.org/10.1088/1755-1315/137/1/012066">9F1AA2D8E36B44C9EB3C7DC1E7F671E44A13EDDD11B9E9E090&amp;originRegion=eu-west-1&amp;originCreation=20211006061539</a>
	<p>Diana Rachmawati, Istiyanto Samidjan, Maizirwan Mel</p> <p>Effect of Phytase on Growth Performance, Diet Utilization Efficiency and Nutrient Digestibility in Fingerlings of <i>Chanos chanos</i> (Forsskal 1775)</p> <p>-</p> <p>Philippine Journal of Science, 2017, Vol. 146, Issue 3, 237-245</p> <p><a href="https://philjournalsci.dost.gov.ph/images/pdf/pjs_pdf/vol146no3/efect_of_phytase_on_growth_of_chanos.pdf">https://philjournalsci.dost.gov.ph/images/pdf/pjs_pdf/vol146no3/efect_of_phytase_on_growth_of_chanos.pdf</a></p>
	<p>Totok Yudhiyanto, Suminto, Diana Rachmawati</p> <p>The Effect of Dietary Soybean Meal with Phytase Supplementation on Digestibility and Growth of Asian Seabass <i>Lates calcarifer</i></p> <p>-</p> <p>Omni Akuatika, 2017, Vol. 13, Issue 2, 144-154</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/263/153">https://ojs.omniakuatika.net/index.php/joa/article/view/263/153</a></p>
	<p>Istiyanto Samidjan, Diana Rachmawati</p> <p>Polyculture Engineering Technology of Larasati Red Tilapia (<i>Oreochromis niloticus</i>) and White Shrimp (<i>Litopenaeus vannamei</i>) Based for Protease Enzyme</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science, 2018, Vol. 137</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012066/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012066/pdf</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan</p> <p>Performance Efficiency of Feed Utilization, Relative Growth Rate and Survival Rate of Common Carp (<i>Cyprinus carpio</i>) Through the Addition of Phytase in the Feed</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science, 2018, Vol. 137</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012027/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012027/pdf</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan</p>

	<p>The Effects of Papain Enzyme Supplement in Feed on Protein Digestibility, Growth and Survival Rate in Sangkuriang Catfish (<i>Clarias</i> sp.)</p> <p>-</p> <p>Omni Akuatika, 2018, Vol. 14, Issue 2, 91-99</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/551/196">https://ojs.omniakuatika.net/index.php/joa/article/view/551/196</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan</p> <p>Engineering Technology of White Shrimp (<i>Litopenaeus vannamei</i>) Intensive System Culture with the Supplementation of Phytase Enzyme in the Diet</p> <p>-</p> <p>Omni Akuatika, 2018, Vol. 14, Issue 2, 138-148</p> <p><a href="http://ojs.omniakuatika.net/index.php/joa/article/view/570/210">http://ojs.omniakuatika.net/index.php/joa/article/view/570/210</a></p>
	<p>Istiyanto Samidjan, Diana Rachmawati</p> <p>Engineering Technology Fish Farming of Snakeheads (<i>Channa striat</i> ,Bloch, 1793) Based Feed Vitamin C Increase to Superior Quality Using Microsatellite</p> <p>-</p> <p>Omni Akuatika, 2018, Vol. 14, Issue 2, 149-157</p> <p><a href="http://download.garuda.ristekdikti.go.id/article.php?article=771374&amp;val=10634&amp;title=Engineering%20Technology%20Fish%20Farming%20of%20Snakeheads%20Channa%20striat%20Bloch%201793%20Based%20Feed%20Vitamin%20C%20Increase%20to%20Superior%20Quality%20Using%20Microsatellite">http://download.garuda.ristekdikti.go.id/article.php?article=771374&amp;val=10634&amp;title=Engineering%20Technology%20Fish%20Farming%20of%20Snakeheads%20Channa%20striat%20Bloch%201793%20Based%20Feed%20Vitamin%20C%20Increase%20to%20Superior%20Quality%20Using%20Microsatellite</a></p>
	<p>Istiyanto Samidjan, Diana Rachmawati</p> <p>Polyculture Engineering of White Shrimp Vannamei and Seaweed on Different Planting Distance on The Growth, Survival in Abration Pond</p> <p>-</p> <p>Omni Akuatika, 2018, Vol. 14, Issue 2, 132-137</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/569/206">https://ojs.omniakuatika.net/index.php/joa/article/view/569/206</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan, Dicky Harwanto, Hadi Pranggono</p> <p>Substitution of Fish Meal with Chicken Feather Silage Meal on Diet Can Improve Growth Performance of Striped Catfish (<i>Pangasius hypophthalmus</i>)</p>



	<p>-</p> <p>Omni Akuatika, 2018, Vol. 14, Issue 3, 60-65</p> <p><a href="http://ojs.omniakuatika.net/index.php/joa/article/view/455/221">http://ojs.omniakuatika.net/index.php/joa/article/view/455/221</a></p>
	<p>Istiyanto Samidjan, Diana Rachmawati</p> <p>Engineering Technology Of Fish Farming Floating Nets Cages On Polka Dot Grouper (<i>Cromileptes Altivelis</i>) Used Artificial Feed Enriched Phytase Enzyme</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science, 2018, Vol. 116</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012010/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012010/pdf</a></p>
	<p>Diana Rachmawati, Asep Awaludin Prihanto, Roy Hendroko Setyobudi, Olga Anne</p> <p>Effect of Papain Enzyme in Feed on Digestibility of Feed, Growth Performance, and Survival Rate in Post Larvae of Freshwater Lobster [<i>Cherax quadricarinatus</i> (Von Martens, 1868)]</p> <p>-</p> <p>Proceedings of the Pakistan Academy of Sciences: Pakistan Academy of Sciences B. Life and Environmental Sciences, 2018, Vol. 55, Issue 3, 31-39</p> <p><a href="https://www.researchgate.net/publication/334226521_Effect_of_Papain_Enzyme_in_Feed_on_Digestibility_of_Feed_Growth_Performance_and_Survival_Rate_in_Post_Larvae_of_Freshwater_Lobster_Cherax_quadricarinatus_Von_Martens_1868">https://www.researchgate.net/publication/334226521_Effect_of_Papain_Enzyme_in_Feed_on_Digestibility_of_Feed_Growth_Performance_and_Survival_Rate_in_Post_Larvae_of_Freshwater_Lobster_Cherax_quadricarinatus_Von_Martens_1868</a></p>
	<p>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Vivi Endar Herawati, Seto Windarto</p> <p>The Effects of <i>Saccharomyces cerevisiae</i>-Enriched Diet on Feed Usage Efficiency, Growth Performance and Survival Rate in Java Barb (<i>Barbonymus gonionotus</i>) Fingerlings</p> <p>-</p> <p>AAFL Bioflux, 2019, Vol. 12, Issue 5, 1841-1849</p> <p><a href="http://www.bioflux.com.ro/docs/2019.1841-1849.pdf">http://www.bioflux.com.ro/docs/2019.1841-1849.pdf</a></p>
	<p>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Seto Windarto</p> <p>The Effects of Papain Enzyme-Enriched Diet on Protease Enzyme Activities, Feed Efficiency and Growth of Fingerlings of</p>

	<p>Sangkuriang Catfish (<i>Clarias gariepinus</i>) Reared in Tarpaulin Pool</p> <p>-</p> <p>AAFL Bioflux, 2019, Vol. 12, Issue 6, 2177-2185</p> <p><a href="http://bioflux.com.ro/docs/2019.2177-2187.pdf">http://bioflux.com.ro/docs/2019.2177-2187.pdf</a></p>
	<p>Diana Rachmawati, Asep Awaludin Prihanto</p> <p>Effect of Papain Enzyme Supplementation on Growth Performance and Nutrient Utilization of Catfish (<i>Pangasius hypophthalmus</i>)</p> <p>-</p> <p>Malaysian Applied Biology Journal, 2019, Vol. 48, Issue 5, 1-10</p> <p><a href="https://www.cabdirect.org/cabdirect/abstract/20203149014">https://www.cabdirect.org/cabdirect/abstract/20203149014</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan</p> <p>The Effects of Chicken Feather Silage Substitution for Fish Meal in the Diet on Growth of Saline Tilapia Fingerlings (<i>Oreochromis niloticus</i>)</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science, 2019, Vol. 246</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012015/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012015/pdf</a></p>
	<p>Diana Rachmawati, Istiyanto Samidjan, Ristiawan Agung Nugroho, Titik Susilowati</p> <p>Effects of <i>Sacharomyces cereviceae</i> Incorporated Diet on Growth Performance, Apparent Digestibility Coefficient of Protein and Survival Rate of Catfish (<i>Pangasius hypophthalmus</i>)</p> <p>-</p> <p>Aquacultura Indonesiana, 2019, Vol. 20, Issue 1, 8-14</p> <p><a href="https://mail.aquasiana.org/index.php/ai/article/view/136/140">https://mail.aquasiana.org/index.php/ai/article/view/136/140</a></p>
	<p>D. Rachmawati, Istiyanto Samidjan, Seto Windarto, Asep Awaludin Prihanto</p> <p>Supplementation of Probiotic (<i>Bacillus subtilis</i>) for Improvement Of Growth Performance and Digestive Enzymes Activity of <i>Puntius Javanicus</i> Under Intensive Aquaculture System</p> <p>-</p> <p>The Journal of Animal and Plant Science, 2021, Vol. 31, Issue 1,</p>

	273-279 <a href="http://www.thejaps.org.pk/docs/v-31-01/28.pdf">http://www.thejaps.org.pk/docs/v-31-01/28.pdf</a>
Activities in specialist bodies over the last 5 years	-

### Staff Handbook (Dr. Ir. Desrina, M.Sc.)

Name	Dr. Ir. Desrina, M.Sc.		
Post	Fish Disease		
Academic career	<i>Doctorate (Aquaculture)</i>	Wageningen University, Belanda	2008 – 2014
	<i>Magister (Aquaculture)</i>	Auburn University, Amerika Serikat	1992 – 1994
	<i>Undergraduate degree (Aquaculture)</i>	Riau University	1984 – 1989
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	1990 - now
Research and development projects over the last 5 years	Investigation on polychaetes as carrier of <i>Enterocytozoon hepatopenaei</i> in the hepatopancreatic microsporidiasis (HPM) outbreak in the shrimp pond (Year 1)		
	<p>2016</p> <p>-</p> <p>Rp 85.000.000 (RPI/PNBP UNDIP)</p>		
	Investigation on polychaetes as carrier of <i>Enterocytozoon hepatopenaei</i> in the hepatopancreatic microsporidiasis (HPM) outbreak in the shrimp pond (Year 2)		
	<p>2017</p> <p>-</p> <p>Rp 70.000.000</p>		

	(RPI/PNBP UNDIP) International Publication Research /PNBP UNDIP
	Core to Core Project: Building up research network for successful seed production technology leading south-east Asian region. Target Species <i>Tegilarca granosa</i>  Amount of financing: (RPI/PNBP UNDIP) <i>2018-2021</i>  <i>Partners, : TUMSAT (Japan), University of Tokyo, Japan. MRC Gondol (Indonesia)</i>  <i>Rp. 250.000.000 (inkind)</i> (RPI/PNBP UNDIP)
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (5):</i>  <b>Mukti Sri Hastuti, Desrina</b>  Current Status of Acute Hepatopancreatic Necrosis Disease (AHPND) and Other Transboundary Diseases of Farmed Shrimps in Indonesia  -  Proceedings of the ASEAN Regional Technical Consultation on EMS/AHPND and Other Transboundary Diseases for

Improved Aquatic Animal Health in Southeast Asia, Makati City Philippines, 2016, 37-43

<https://repository.seafdec.org.ph/bitstream/handle/10862/3087/HastutiMS2016.pdf?sequence=1>

**Desrina, J.A.J. Verreth, M.C.J. Verdegem, J.M. Vlak**

Polychaetes as Potential Risks for Shrimp Pathogen Transmission. Asian Fisheries Science, 2018, Vol. 31S, 155-167

<http://www.asianfisheriessociety.org/publication/downloadfile.php?id=1231&file=Y0dSbUx6QTVOVGd3TmpJd01ERTFORGMzTWpj09UVXVjR1Jt>

**Yuni Karnisa, Desrina, Ita Widowati**

Karnisa, Y., Desrina, D., Widowati, I. (2019). Parasites Identification and Histopathology Changes on Blood Cookle (Anadara granosa Linnaeus, 1758). ILMU KELAUTAN: Indonesian Journal of Marine Sciences, 24 (4), 171-178 (doi:10.14710/ik.ijms.24.4.171-178)

<https://ejournal.undip.ac.id/index.php/ijms/article/view/25515/pdf>

**Hastuti, M. S., Desrina, & Maskur. (2019).**

Emergency preparedness and response system in Indonesia. In E. A. Tendencia, L. D. de la Peña, & J. M. V. de la Cruz (Eds.), Aquatic Emergency Preparedness and Response Systems for Effective Management of Transboundary Disease Outbreaks in Southeast Asia: Proceedings of Asean Regional Technical Consultation, 20-22 August 2018, Centara Grand Central Ladprao, Bangkok, Thailand (pp. 12-21). Tigbauan, Iloilo, Philippines: Aquaculture Department, Southeast Asian Fisheries Development center.

<https://repository.seafdec.org.ph/handle/10862/3457>

	<p><b>Desrina, Slamet Budi Prayitno, Alfabetian Harjuno Condro Haditomo, Rusthesa Latritiani, Sarjito</b></p> <p>Detection of Enterocytozoon Hepatopenaei (EHP) DNA in the Polychaetes from Shrimp Ponds Suffering White Feces Syndrome Outbreaks</p> <p>Biodiversitas, 2020, Vol. 21, Issue 1, 369-374.</p> <p><a href="https://smujo.id/biodiv/article/view/4304/3612">https://smujo.id/biodiv/article/view/4304/3612</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Tita Elfitasari, SPi, MSc, PhD)

Name	Tita Elfitasari, SPi, MSc, PhD		
Post	Aquaculture		
Academic career	Entrepreneurship and Innovation	Swinburne University of Technology	2006
	Science	UNSW Australia	1998
	<i>Fisheries</i>	<i>Universitas Diponegoro</i>	<i>1990</i>
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	1997 - now
Research and development projects over the last 5 years	<p><b>Project to design aquaculture to support mangrove restoration in Indonesia / PASMI Project (2016-2019)</b>  Partner: Wageningen University, The Netherlands  Funding from NWO WOTRO, The Netherlands (Euro. 109,104)</p> <p><b>Implementation of Low External Input for Sustainable Aquaculture (LEISA) for shrimp (<i>Penaeus monodon</i>) production efficiency PL15-PL60 towards organic food (2017)</b>  Faculty of Fisheries and Marine Science Research Funding 2017 (Rp. 40.000.000)</p> <p><b>Role of seaweed and green mussel in IMTA to obtain optimum water quality in shimp culture.</b>  Faculty of Fisheries and Marine Science Research Funding 2018 (Rp. 30.000.000)</p> <p><b>Entrepreneurship exploration in Fish farmers at Mina Lancar fish farmer group, Gunung Pati, Semarang (2019)</b>  Independent research funding (Rp. 5.000.000)</p> <p><b>Aquaculture Virtual Extension Service Mobile Application</b></p>		



	<p><b>(AVESMA) Project (2021-2023)</b></p> <p>Funding from NWO-WOTRO, The Netherlands (Euro 49.981)</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p><b>Tita Elfitasari, Albert Albert (2017)</b>  Challenges Encountered By Small Scale Fish Farmers In Assuring Fish Product Sustainability  Omni-Akuatika, 13(2), 2017  Link: <a href="http://www.ojs.omniakuatika.net/index.php/joa/article/view/256">http://www.ojs.omniakuatika.net/index.php/joa/article/view/256</a></p> <p><b>Diana Rachmawati, Istiyanto Samidjan and Tita Elfitasari (2018)</b>  Effect of The Phytase Enzyme Addition in The Artificial Feed on Digestibility of Feed, Feed Conversion Ratio and Growth of Gift Tilapia Saline Fish (<i>Oreochromis niloticus</i>) Nursery Stadia I  Scopus  IOP Conf. Series: Earth and Env. Sci. <b>116</b> (2018) 012009, 2018.  Link  <a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012009/meta">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012009/meta</a></p> <p><b>T Elfitasari, R A Nugroho and A P Nugroho (2018)</b>  The importance of aquaculture community group (ACG) in social media (Facebook) towards the aquaculture knowledge and financial improvement of small scale fish farmers (SSFF) in rural areas of Central Java  Scopus  IOP Conf. Series: Earth and Env. Sci. <b>137</b> (2018) 012097  Link  <a href="https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012097/meta">https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012097/meta</a></p> <p><b>T. Elfitasari*, L. Klerkx, O. Joffrey, S. Rejeki, L.L. Widowati, R.W. Aryati, R.H. Bosma (2019)</b>  Is Integrated Multi-Trophic Aquaculture (Imta) Concept An Answer to Abraded Coastal Area? A Stakeholders' Perspective Analysis</p>

	<p>Scopus  IOP Conf. Series: Earth and Env. Sci <b>246</b> (2019) 012082  Link  <a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012082/meta">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012082/meta</a></p> <p><b>Albert, T. Elfitasari (2020)</b>  The impact of POKDAKAN group level on business innovation of small scale fish producers  Scopus  Facing Global Digital Revolution: Proc. BES Taylors &amp; Francis , 43-46, 2020  Link  <a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9780429322808-10/impact-pokdakan-group-level-business-innovations-small-fish-producers-central-java-albert-elfitasari">https://www.taylorfrancis.com/chapters/edit/10.1201/9780429322808-10/impact-pokdakan-group-level-business-innovations-small-fish-producers-central-java-albert-elfitasari</a></p> <p><b>F. Apresia, T. Elfitasari, T. Susilowati (2020)</b>  The influence of WhatApp on improvements for fish farmers: A lesson from Semarang city, Indonesia  Scopus  Emerging trends in psychology, law, comm studies, culture, religion and literature in the global digital rev, Proc. Socis, Taylors &amp; Francis, 107-110, 2020  Link  <a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9780429322259-24/influence-whatsapp-improvements-fish-farmers-lesson-semarang-city-indonesia-apresia-elfitasari-susilowati">https://www.taylorfrancis.com/chapters/edit/10.1201/9780429322259-24/influence-whatsapp-improvements-fish-farmers-lesson-semarang-city-indonesia-apresia-elfitasari-susilowati</a></p> <p><b>Elfitasari, T., Albert, Lachmuddin Sya`rani (2021).</b>  Fishpreneur: a new paradigm of small-scale aquaculture. <i>AAFL Bioflux</i>, 14(3).  Link <a href="http://www.bioflux.com.ro/docs/2021.1406-1416.pdf">www.bioflux.com.ro/docs/2021.1406-1416.pdf</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Restiana Wisnu Ariyati, SPi, MPi)

Name	Restiana Wisnu Ariyati, SPi, M.Si
Post	Marineculture
Academic career	<p>Aquaculture <i>Univesitas Diponegoro</i> 2003</p> <p><i>Aquaculture</i> <i>Universitas Diponegoro</i> 1997</p>
Employment	Lecturer at Diponegoro University 2003 - now Fisheries and Marine Science Faculty
Research and development projects over the last 5 years	<p>Upaya Pemulihan Produksi Perikanan pada Lahan Terabrasi dengan Penerapan IMTA berdasarkan Analisis Multisektoral secara Ekologis dan Ekonomis (Tahun Pertama) 2016 Rp. 40.000.000 Selain APBN DPA SUKMA LPPM Universitas Diponegoro</p> <p>Project of Sustainable Aquaculture to Support Mangrove Forest Restoration in Indonesia (PASMI) collaboration with Wageningen University, the Netherlands 2016 - 2019 110.000 EURO NOW – WOTRO The Netherlands</p> <p>Monitoring of Coastal Field School and Mix Mangrove Aquaculture, Collaboration with Building with Nature Project for Indonesia 2016 - 2018 300.000.000,- IDR Ecoshape, The Netherlands</p> <p>Upaya Pemulihan Produksi Perikanan pada Lahan Terabrasi dengan Penerapan IMTA berdasarkan Analisis Multisektoral secara Ekologis dan Ekonomis (Tahun Kedua) 2017 Rp. 45.000.000</p>

	<p>Selain APBN DPA SUKMA LPPM Universitas Diponegoro</p> <p>Monitoring Mangrove Associated Aquaculture, Collaboration with Building with Nature Project for Indonesia 2018 - 2020 300.000.000,- IDR Ecoshape, The Netherlands</p> <p>Peranan Rumput Laut (<i>Gracilaria</i> sp) dan Kerang Hijau (<i>Perna viridis</i>) dalam Integrated Multi Tropik Aquaculture (IMTA) untuk Mewujudkan Kualitas Air yang Optimal bagi Budidaya Udang Windu (<i>Penaeus Monodon</i>) 2018 Rp.30.000.000 Hibah FPIK UNDIP</p> <p>Seaweed as bio-remediator in traditional pond aquaculture systems as novel solution for remarkable resilience, to encounter environmental changes in the coastal area 2020 400.000.000 IDR Wageningen University and Research, The Netherlands</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (8):</i></p> <p><b>Sri Rejeki, Restiana Wisnu Ariyati, Lestari Lakhsmi Widowati</b></p> <p>Application of Integrated Multi Tropic Aquaculture Concept in an Abraded Brackish Water Pond Jurnal Teknologi Malaysia Vol. 78 / NO. 2-4 2016 <a href="https://doi.org/10.11113/jt.v78.8213">https://doi.org/10.11113/jt.v78.8213</a></p> <p><b>Sarjito, A. Harjuno Condro Haditomo, Restiana W.</b></p>

**Ariyati, and S. Budi Prayitno**

The Diversity of Causative Agent Associated with Bacterial Diseases on Catfish (*Clarias gariepinus*) with Molecular Based from Kendal, Indonesia

Advanced Science Letters Vol 23 (7), 6479 – 682 – 2017

<http://dx.doi.org/10.20884/1.oa.2018.14.2.553>

**Sri Rejeki, Restiana W. Ariyati, Lestari Lakshmi Widowati, Roel H Boesma**

The effect of three cultivation methods and two seedling types on growth, agar content and gel strength of *Gracilaria verrucosa*

The Egyptian Journal of Aquatic Research Vol 44 (1), 65 – 70, March 2018

<https://doi.org/10.1016/j.ejar.2018.01.001>

**Restiana W. Ariyati, Sri Rejeki and Roel H Boesma**

The effect of Different Feed and Stocking Densities on Growth and Survival Rate of Blue Swimming Crabs (Portunus pelagicus)

IOP Conference Series: Earth and Environmental Science Vol 116 (1), 012071 – 2018

<http://dx.doi.org/10.1088/1755-1315/116/1/012071>

**Restiana W. Ariyati , Sri Rejeki , Lestari Lakshmi Widowati, Tita Elfitasari, & Roel H Boesma**

Effect of three types of liquid compost combined with *Avicennia marina* leaves on growth and survival of tiger prawns (*Penaeus monodon*)

International Aquatic Research Vol 11: 311–321, 2019

<http://dx.doi.org/10.1007/s40071-019-00248-w>

**Sri Rejeki , Marcel Middeljans, Lestari L. Widowati, Restiana W. Ariyati, Tita Elfitasari, Roel H. Bosma**

The effects of decomposing mangrove leaf litter and its tannins on water quality and the growth and survival of tiger prawn (*Penaeus monodon*) post-larvae.

Biodiversitas Vol 20 (9), 2750-2757, 2019

<https://doi.org/10.13057/biodiv/d200941>

**Lestari L. Widowati, Restiana W. Ariyati, Sri Rejeki**

Ecological And Economical Analysis For Implementing Integrated Multi Trophic Aquaculture (IMTA) In An Abraded Area To Recover Aquaculture Production In Kaliwlingi, Brebes, Indonesia

Geo-Eco-Marina Vol. 25: 161-170, 2019

<https://doi.org/10.5281/zenodo.3609841>

**Sri Rejeki, Adolphe O. Debrot, Anneke M.van den Brink, Restiana W. Ariyati, Lestari Lakshmi Widowati.**

Increased production of green mussels (*Perna viridis*) using longline culture and an economic comparison with stake culture on the north coast of Java, Indonesia

Aquaculture Research Vol 52 (1) : 373 – 380, 2021

<https://doi.org/10.1111/are.14900>

Activities in  
specialist bodies  
over the last 5 years

**Staff Handbook (Dr.Vivi Endar Herawati, S.Pi, M.Si.)**

Name	Dr.Vivi Endar Herawati, S.Pi, M.Si.		
Post	Nutrition and Fish Production Management		
Academic career	<i>Doctorate (Fisheries)</i>	Diponegoro University	2013
	<i>Magister (Fisheries)</i>	Diponegoro University	2008
	<i>Undergraduate degree (Fisheries)</i>	Diponegoro University	2003
Employment	Lecturer at Fisheries and Marine Faculty	Diponegoro University	2003-now
Research and development projects over the last 5 years	Technology Engineering Mass Media Culture <i>Daphnia</i> sp. Using Various Waste Fermentation Industry As Livestock and Natural Resources For Improved Quality Feed and Hatchery Production Tilapia ( <i>Oreochromis niloticus</i> ) 2016 (First Year) Research Development and Implementation (Rp 50.000.000,-)		
	Ecology Engineering Use Mangrove Ecosystem to Increase Fertility Pond in Coastal North Central Java for Sustainable Fisheries 2016 (First Year) - Research Development and Implementation (Rp 50.000.000,-)		
	Technology Engineering Mass Media Culture <i>Daphnia</i> sp. Using Various Waste Fermentation Industry As Livestock and Natural Resources For Improved Quality Feed and Hatchery Production Tilapia ( <i>Oreochromis niloticus</i> ) 2017 (Second Year) - Research Development and Implementation (Rp 50.000.000,-)		
	Ecology Engineering Use Mangrove Ecosystem to Increase Fertility Pond in Coastal North Central Java for Sustainable Fisheries		

	<p>2017 (Second Year)</p> <p>-</p> <p>Research Development and Implementation, APBN UNDIP (Rp 40.000.000,-)</p>
	<p>Optimasi Teknologi Rekayasa Media Klutur Daphnia Berbasis Waktu Fermentasi Yang Berbeda Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Nila</p> <p>2018</p> <p>-</p> <p>Competency Grant, DIKTI (Rp 90.000.000,-)</p>
	<p>Pemanfaatan Lemna Minor Substitusi Tepung Kedelai Sumber Protein Nabati Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Nila</p> <p>2018</p> <p>-</p> <p>Excellent Basic Research PT, DIKTI (Rp. 78.750.000,-)</p>
	<p>Pemanfaatan Tepung Magot Substitusi Tepung Ikan Sumber Protein Hewani Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Mas</p> <p>2018</p> <p>-</p> <p>Research Development and Implementation (Rp. 42.500.000,-)</p>
	<p>Sistem Pengendali Kualitas Air Guna Menjaga Kestabilan Kualitas Air Pada Usaha Budidaya Udang</p> <p>2018</p> <p>-</p> <p>Applied Research, Superior University, DIKTI (Rp 139.000.000,-)</p>
	<p>Studi Komparasi Kualitas Ikan Nila di Propinsi Jawa Tengah dan Papua serta Aplikasinya pada Produk Berbasis Miofibril Protein</p> <p>2018</p> <p>-</p> <p>Research Development and Implementation, APBN (Rp. 44.000.000,-)</p>



	<p>Optimasi Teknologi Rekayasa Media Klutur Phronima sp. Hasil Kultur Menggunakan Limbah Organik substitusi Artemia sp. Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Nila (Tahun kedua)</p> <p>2019</p> <p>-</p> <p>Excellent Basic Research PT, DIKTI (Rp. 82.030.000,-)</p>
	<p>Optimasi Teknologi Rekayasa Media Klutur Daphnia Berbasis Waktu Fermentasi Yang Berbeda Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Nila (Tahun kedua)</p> <p>2019</p> <p>-</p> <p>Excellent Basic Research PT, DIKTI (Rp. 76.000.000,)</p>
	<p>Pemanfaatan Tepung Magot Substitusi Tepung Ikan Sumber Protein Hewani Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Mas (Tahun kedua)</p> <p>2019</p> <p>-</p> <p>Research Development and Implementation, APBNP UNDIP (Rp. 40.250.000,-)</p>
	<p>Pemanfaatan Lemna Minor Substitusi Tepung Kedelai Sumber Protein Nabati Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Nila ( Tahun kedua)</p> <p>2019</p> <p>-</p> <p>Excellent Basic Research PT, DIKTI (Rp. 83.000.000,-)</p>
	<p>Optimasi Teknologi Rekayasa Media Klutur Daphnia Berbasis Waktu Fermentasi Yang Berbeda Untuk Peningkatan Kualitas dan Produksi Pembenihan Ikan Nila (Tahun ketiga)</p> <p>2020</p> <p>Excellent Basic Research PT, DIKTI (Rp. 60.000.000,-)</p>
	<p>Optimasi Produksi dan Kualitas Udang Vanname Dengan Pemberian Pakan Alami Phronima sp. Substitusi Artemia Hasil Kultur Massl Berbasis Perbedaan Media Kultur Menggunakan Caulerpa</p>

	<p>2020</p> <p>-</p> <p>Basic Research, DIKTI (Rp. 71.692.000)</p>
	<p>Kajian Kandungn Nutrisi Phronima Dalam Media Kultur Massal Berbasis Pemanfaatan Limbah Organik Sebagai Sumber Pakan Alami Pengganti Artemia Untuk Peningkatan Kualitas Pembenihan Udang Vanname</p> <p>2020</p> <p>-</p> <p>Excellent Basic Research PT, DIKTI (Rp. 73.267.000)</p>
	<p>Teknologi Rekayasa Pengembangan dan Penerapan Kultur Massal Nereis Menggunakan Tepung Magot dan Bungkil Kelapa Guna Peningkatan Kualitas Nutrisi Pembesaran Udang Vanname (Tahun pertama)</p> <p>2020</p> <p>-</p> <p>Research Development and Implementation, APBN UNDIP (Rp 37.000.000,-)</p>
	<p>Pengkayaan Phronima dengan pemberian pakan Chlorella vulgaris dan Chaetoceros calcitrans Terhadap Pertumbuhan dan Kualitas Nutrisi</p> <p>2020</p> <p>-</p> <p>Faculty Research Grant (Rp 40.000.000,-)</p>
	<p>Teknologi Rekayasa Pengembangan dan Penerapan Kultur Massal Nereis Menggunakan Tepung Magot dan Bungkil Kelapa Guna Peningkatan Kualitas Nutrisi Pembesaran Udang Vanname (Tahun kedua)</p> <p>2021</p> <p>-</p> <p>Research Development and Implementation, APBN UNDIP (Rp 50.000.000,-)</p>
	<p>Optimasi Produksi dan Kualitas Udang Vanname Dengan Pemberian Pakan Alami Phronima sp. Substitusi Artemia Hasil Kultur Massl Berbasis Perbedaan Media Kultur Menggunakan Caulerpa</p> <p>2021</p>

	- Basic Research, DIKTI (Rp. 83.300.000)
	Teknologi Rekayasa Pengembangan dan Penerapan Kultur Massal Nereis Berbasis Ketebalan Media Kultur dan Pengkayaan Pakan Guna Peningkatan Kualitas Nutrisi Pembesaran Udang Vanname 2021 - Excellent Basic Research PT, DIKTI (Rp. 98.000.000)
Industry collaborations over the last 5 years	-
Patents and proprietary rights	Composition of <i>Daphnia magna</i> Culture Media With Organic Waste Fermentation As Tilapia Larva Feed 2017
	Modification of <i>Daphnia magna</i> Mass Culture Media in Various Organic Wastes 2019
	Feed Formulation Using Maggot Flour Substitution with Fish Flour in Feeding Management for Goldfish ( <i>Cyprinus carpio</i> ) 2019
	The Feed Formulation of Tilapia Nursery Using <i>Lemna Minor</i> Fermentation 2019
	Textbook for Feed Management Courses Using Maggot in Artificial Feed for Fish Farming 2019
	Textbook for Fish Feed Management Technology Subject Using Lemna Minor in Artificial Feed for Fish Farming 2019
	Text Book Natural Feed Cultivation 2021
	Teaching Module for Aquaculture Engineering Course Utilizing Fermentation of Waste and Local Raw Materials for Fish Farming Feed 2020
	Reference Books on Feed Production for Aquaculture, Collection of Research- 2020

	Based Scientific Articles
	Teaching module for Potential Fish Cultivation course: Ginger Shrimp 2020
	Teaching Module Introductory Course in Fish Culture with the Potential of Freshwater Lobster Cultivation 2020
	Text Book Natural Feed Cultivation 2018
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (26):</i></p> <p>Vivi Endar Herawati, Ristiawan Agung Nugroho Johannes Hutabarat, Ocky Karna Radjasa</p> <p>Profile of Amino Acids, Fatty Acids, Proximate Composition and Growth Performance of <i>Tubifex Tubifex</i> Culture with Different Animal Wastes and Probiotic Bacteria</p> <p>-</p> <p>AAFL Bioflux, 2016, Vol. 7, Issue 3, 622-641  <a href="http://www.bioflux.com.ro/docs/2016.614-622.pdf">http://www.bioflux.com.ro/docs/2016.614-622.pdf</a></p> <p>Vivi Endar Herawati, Ristiawan Agung Nugroho, Pinandoyo</p> <p>Nutritional Value Content, Biomass Production and Growth Performance of <i>Daphnia Magna</i> Cultured with Different Animal Wastes Resulted from Probiotic Bacteria Fermentation</p> <p>IOP Conference Series: Earth and Environmental Science, 2017, Vol. 55, Issue 1</p> <p>Link : <a href="https://iopscience.iop.org/article/10.1088/1755-1315/55/1/012004">https://iopscience.iop.org/article/10.1088/1755-1315/55/1/012004</a></p> <p>Maman Somantri, Agus Sofwan, M. Arfan, Vivi Endar Herawati, Hafidhin Abdurrasyiid</p> <p><a href="#">Design of Water Quality Control for Shrimp Pond Using Sensor-Cloud Integration</a></p> <p>5th International Conference on Information Technology, Computer and Electrical Engineering, ICITACEE, 2018, 331-335</p> <p>Link : <a href="https://ieeexplore.ieee.org/document/8576971">https://ieeexplore.ieee.org/document/8576971</a></p> <p>Muhammad Azhar, Suhartoyo, Putut Suharso, Vivi Endar</p>

	<p>Herawati, Nanik Trihastuti</p> <p>Prospect on Implementation of National Fish Logistics System: Case in Indonesia</p> <p>E3S Web of Conferences, 2018, Vol. 47</p> <p>Link : <a href="https://www.e3s-conferences.org/articles/e3sconf/abs/2018/22/e3sconf_scifimas2018_06009/e3sconf_scifimas2018_06009.html">https://www.e3s-conferences.org/articles/e3sconf/abs/2018/22/e3sconf_scifimas2018_06009/e3sconf_scifimas2018_06009.html</a></p>
	<p>Muhammad Azhar, Suhartoyo, Lita A.L.W. Tyesta, Putut Suharso, Vivi Endar Herawati</p> <p>Protection of Traditional Fishermen in the Granting of Fishery Licenses in Indonesia</p> <p>E3S Web of Conferences, 2018, Vol. 47</p> <p>Link : <a href="https://www.e3s-conferences.org/articles/e3sconf/abs/2018/22/e3sconf_scifimas2018_07003/e3sconf_scifimas2018_07003.html">https://www.e3s-conferences.org/articles/e3sconf/abs/2018/22/e3sconf_scifimas2018_07003/e3sconf_scifimas2018_07003.html</a></p>
	<p>Vivi Endar Herawati, Ristiawan Agung Nugroho, Pinandoyo, Johannes Hutabarat, Budi Prayitno</p> <p>The Growth Performance and Nutrient Quality of Asian Swamp Eel <i>Monopterus albus</i> in Central Java Indonesia in a Freshwater Aquaculture System with Different Feeds</p> <p>Journal of Aquatic Food Product Technology, 2018, Vol. 27, Issue 6, 658-666</p> <p>Link : <a href="https://www.tandfonline.com/doi/abs/10.1080/10498850.2018.1483990?journalCode=wafp20">https://www.tandfonline.com/doi/abs/10.1080/10498850.2018.1483990?journalCode=wafp20</a></p>
	<p>Vivi Endar Herawati, Ristiawan Agung Nugroho, Pinandoyo, Yudhomenggolo Sastro Darmanto</p> <p>The Effect of Fermentation Time with Probiotic Bacteria on Organic Fertilizer as <i>Daphnia magna</i> Cultured Medium towards Nutrient Quality, Biomass Production and Growth Performance Enhancement</p> <p>IOP Conference Series: Earth and Environmental Science, 2018, Vol. 116, Issue 1</p> <p>Link : <a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012089/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012089/pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Johannes Hutabarat</p> <p>The Effect of Nutrient Content and Production of <i>Daphnia</i></p>

	<p>Magna Mass Cultured Using Various Wastes Processed with Different Fermentation Time</p> <p>AAFL Bioflux, 2018, Vol. 11, Issue 4, 1289-1299</p> <p>Link : <a href="http://www.bioflux.com.ro/docs/2018.1289-1299.pdf">http://www.bioflux.com.ro/docs/2018.1289-1299.pdf</a></p>
	<p>Retno Ayu Kurniasih, Yudhomenggolo Sastro Darmanto, Vivi Endar Herawati</p> <p>Characteristics of Surimi Gelfrom <i>Oreochromis mossambicus</i> in Different Aquaculture Areas</p> <p>IOP Conference Series: Earth and Environmental Science, 2019, Vol. 260, Issue 1, 1-8</p> <p>Link:</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/260/1/012111">https://iopscience.iop.org/article/10.1088/1755-1315/260/1/012111</a></p>
	<p>Pinandoyo, Johannes Hutabarat, Yudhomenggolo Sastro Darmanto</p> <p>The Effect of Fish Meal And Milkfish Offal Meal Combination in Different Artificial Feeds on Growth And Survival Rate of Tiger Shrimp (<i>Penaeus monodon</i>)</p> <p>IOP Conference Series: Earth and Environmental Science, 2019, Vol. 246, Issue 1</p> <p>Link :</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012063">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012063</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Yudhomenggolo Sastro Darmanto</p> <p>Growth Performance and Nutrient Content of Carp (<i>Cyprinus Carpio</i>) with the Feeding of Maggot Meal Substitution Cultivated in Different Media</p> <p>IOP Conference Series: Earth and Environmental Science, 2019, Vol. 246, Issue 1</p> <p>Link</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012003">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012003</a></p>
	<p>Vivi Endar Herawati, Johannes Hutabarat,Pinandoyo,Nurmita Rismaningsih, Ocky Karna Radjasa</p> <p>Mass Culture of Daphnia Magna Straus, 1820 in Fermented Medium as Feed to Enhance Nutrient Quality and Growth</p>

	<p>Performance of Nile Tilapia <i>Oreochromis niloticus</i> (Linnaeus, 1758) Larvae</p> <p>Asian Fisheries Science, Vol. 32, Issue 4, 182-189</p> <p>Link :</p> <p><a href="https://www.asianfisheriessociety.org/publication/downloadfile.php?id=1280&amp;file=Y0dSbUx6QXIOVEI3TURrd01ERTFOemMzTmptjd01EZ3VjR1Jt">https://www.asianfisheriessociety.org/publication/downloadfile.php?id=1280&amp;file=Y0dSbUx6QXIOVEI3TURrd01ERTFOemMzTmptjd01EZ3VjR1Jt</a></p>
	<p>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Vivi Endar Herawati, Seto Windarto</p> <p>The Effects of <i>Saccharomyces Cerevisiae</i>-Enriched Diet on Feed Usage Efficiency, Growth Performance and Survival Rate in Java Barb (<i>Barbonymus gonionotus</i>) Fingerlings</p> <p>AACL Bioflux, 2019, Vol. 12, Issue 5, 1841-1849</p> <p>Link</p> <p><a href="http://www.bioflux.com.ro/docs/2019.1841-1849.pdf">http://www.bioflux.com.ro/docs/2019.1841-1849.pdf</a></p>
	<p>Pinandoyo, Johannes Hutabarat, Yudhomenggolo Sastro Darmanto</p> <p>Growth and Nutrient Value of Tilapia (<i>Oreochromis niloticus</i>) Fed with Lemna Minor Meal Based on Different Fermentation Time</p> <p>AACL Bioflux, 2019, Vol. 12, Issue 1, 191-200</p> <p>Link :</p> <p><a href="http://bioflux.com.ro/docs/2019.191-200.pdf">http://bioflux.com.ro/docs/2019.191-200.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Nurmita Rismaningsih, Seto Windarto, Ocky Karnaradjasa</p> <p>Amino Acid and Fatty Acid Profiles of Mozambique Tilapia (<i>Oreochromis mossambicus</i>) in Different Aquaculture Systems from Indonesian Waters</p> <p>AACL Bioflux, 2019, Vol. 12, Issue 5, 1771-1775</p> <p>Link :</p> <p><a href="http://www.bioflux.com.ro/docs/2019.1771-1778.pdf">http://www.bioflux.com.ro/docs/2019.1771-1778.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Yudhomenggolo Sastro Darmanto, Nurmita Rismaningsih, Johannes Hutabarat, Slamet Budi Prayitno</p> <p>Effect of Feeding With <i>Phronima</i> sp. on Growth, Survival Rate and Nutrient Value Content of Pacific White Shrimp (<i>Litopenaeus vannamei</i>) Post-Larvae</p>

	<p>Aquaculture, 2020, Vol. 529, 674-735</p> <p>Link :  <a href="https://www.sciencedirect.com/science/article/abs/pii/S0044848620309996">https://www.sciencedirect.com/science/article/abs/pii/S0044848620309996</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Seto Windarto, Nurmita Rismaningsih, Yudhomenggolo Sastro Darmanto, Johannes Hutabarat, Ocky Karna Radjasa</p> <p>The Effect of Probiotic Bacteria in Culture Media Using Organic Fertilizer for Population Density, Biomass Production and Nutrient Quality of <i>Phronima</i> sp. as Natural Feed</p> <p>Aquaculture Research, 2020, Vol. 51, Issue 2, 836-843</p> <p>Link :  <a href="https://onlinelibrary.wiley.com/doi/abs/10.1111/are.14433">https://onlinelibrary.wiley.com/doi/abs/10.1111/are.14433</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Yudhomenggolo Sastro Darmanto, Johannes Hutabarat, Seto Windarto, Nurmita Rusmaningsih</p> <p>Fermented Black Soldier Fly (<i>Hermetia illucens</i>) Meal Utilization in Artificial Feed for Carp (<i>Cyprinus carpio</i>)</p> <p>AAFL Bioflux, 2020, Vol. 13, Issue 2, 1038-1047</p> <p>Link :  <a href="http://www.bioflux.com.ro/docs/2020.1038-1047.pdf">http://www.bioflux.com.ro/docs/2020.1038-1047.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Seto Windarto, Putut Hariyadi, Johannes Hutabarat, Yudhomenggolo Sastro Darmanto</p> <p>Maggot Meal (<i>Hermetia illucens</i>) Substitution on Fish Meal to Growth Performance, and Nutrient Content of Milkfish (<i>Chanos chanos</i>)</p> <p>Hayati Journal of Biosciences, 2020, Vol. 27, Issue 2, 154-165</p> <p>Link :</p>



	<p><a href="https://journal.ipb.ac.id/index.php/hayati/article/view/31499">https://journal.ipb.ac.id/index.php/hayati/article/view/31499</a></p>
	<p>Vivi Endar Herawati, Zumalallail Nailulmuna, Nurmanita Rismaningsih, Johannes Hutabarat1, Pinandoyo, Tita Elfitasari, Putut Har Riyadi, Ocky Karna Radjasa</p> <p>Growth Performance and Nutritional Quality Enrichment of <i>Phronima Pacifica</i> by <i>Chlorella Vulgaris</i> and <i>Chaetoceros Calcitrans</i> as Natural Feed</p> <p>Biodiversitas, 2020, Vol. 21, Issue 9, 1253-4259</p> <p>Link :  <a href="https://smujo.id/biodiv/article/view/6310">https://smujo.id/biodiv/article/view/6310</a></p>
	<p>Zumalallail Nailulmuna, Johannes Hutabarat, Vivi Endar Herawati</p> <p>The Effect of Different Salinity on the Growth of <i>Phronima</i> sp. in Mass Culture as Natural Feed</p> <p>AAFL Bioflux, 2020, Vol. 13, Issue 4, 1986-1992</p> <p>Link :  <a href="http://www.bioflux.com.ro/docs/2020.1986-1992.pdf">http://www.bioflux.com.ro/docs/2020.1986-1992.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Y.S. Darmanto , Nurmanita Rismaningsih , Seto Windarto, Ocky Karna Radjasa</p> <p>The Effect of Fermented Duckweed (<i>Lemna Minor</i>) in Feed on Growth and Nutritional Quality of Tilapia (<i>Oreochromis Niloticus</i>)</p> <p>Biodiversitas, 2020, Vol. 21, Issue 7, 3350-3358</p> <p>Link :  <a href="https://biodiversitas.mipa.uns.ac.id/D/D2107/D210759.pdf">https://biodiversitas.mipa.uns.ac.id/D/D2107/D210759.pdf</a></p>
	<p>Putut Har Riyadi, YS Darmanto, Apri D Anggo, Vivi Endar Herawati, Retno A Kurniasih</p> <p>Potential of Hydrolyzed in <i>Portunus</i> sp. Non-Shell as Nutraceutical with Bioinformatics Analysis</p> <p>Engineering and Applied Sciences, 2020, Vol. 15, Issue 10, 2327-2331</p> <p>Link :  <a href="https://www.researchgate.net/publication/344591241_Potenti">https://www.researchgate.net/publication/344591241_Potenti</a></p>

	<p><a href="#">al of Hydrolyzed Waste in Portunus sp Non-Shell as Nutraceutical with Bioinformatics Analysis</a></p>
	<p>Retno Ayu K, Darmanto, Vivi Endar, Apri D Anggo, Putut H Riyadi</p> <p>Effect of Different Farming Locations on Biocalcium Characteristic of Mozambique Tilapia Bones</p> <p>AACL Bioflux, 2020, Vol. 13, Issue 6, 3583-3592</p> <p>Link :</p> <p><a href="http://www.bioflux.com.ro/docs/2020.3583-3592.pdf">http://www.bioflux.com.ro/docs/2020.3583-3592.pdf</a></p>
	<p>Pinandoyo, Vivi Endar, Johannes Hutabarat, Seto Windarto</p> <p>Application of Indian Nettle and Mung Bean Sprouts as a Source of Plant to Improve Gourami Production</p> <p>AACL Bioflux, 2021, Vol. 13, Issue 6, 3583-3592</p> <p>Link</p> <p><a href="http://bioflux.com.ro/docs/2021.141-150.pdf">http://bioflux.com.ro/docs/2021.141-150.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Restiana Wisnu, Nurmanita, S. Budi Prayitno, YS Darmanto, Ocky Karna Radjasa</p> <p>Effects of Caulerpa lentillifera added into culture media on the growth and nutritional values of Phronima pacifica, a natural fish-feed crustacean</p> <p>Biodiversitas, 2021, Vol. 22, Issue 1, 424-431</p> <p>Link :</p> <p><a href="https://smujo.id/biodiv/article/view/7136">https://smujo.id/biodiv/article/view/7136</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Masyarakat Akuakultur Indonesia (Indonesian Aquaculture Society)</i></p> <p><i>Division of Research Output Application</i></p> <p><i>2020-now</i></p>



**Staff Handbook (Ristiawan Agung Nugroho, S.Pi, M.Si.)**

Name	Ristiawan Agung Nugroho, S.Pi, M.Si.		
Post	Aquaculture		
Academic career	Aquaculture <i>Aquaculture</i>	<i>Univesitas Diponegoro</i> <i>Universitas Diponegoro</i>	2007 1994
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2005 - now
Research and development projects over the last 5 years	The Technology Engineering of <i>Daphnia</i> sp. Mass Culture Media Using Fermentation of Various Livestock and Industrial Wastes as Natural Feed Sources to Improve the Quality and Production of Tilapia Hatchery 2016 - Rp. 45.000.000		
	Analysis of Growth Performance and Nutritional Quality of Eel ( <i>Monopterus albus</i> ) in Clear Water Cultivation System with Different Natural Feeding 2016 - Rp. 14.500.000		
	Efficiency of Feed Utilization and Growth of Tawes ( <i>Puntius javanicus</i> ) which is fed with Pineapple Extract 2017 - Rp. 3.000.000		

	<p>Analysis of Growth and Survival Performance of Catfish Seeds by Reciprocal Hybridization of „Mutiara“ strain and Semarang Local Dumbo strain Catfish</p> <p>2018</p> <p>-</p> <p>Rp.40.000.000</p>
	<p>Gonad Development in Tawes Broodstock with Manipulation of Estradiol 17<math>\beta</math> and hCG Hormones</p> <p>2019</p> <p>-</p> <p><i>Rp.40.000.000</i></p>
	<p>Bioeconomic Model for Optimization of Benefits of High Economic Fish Cultivation</p> <p>2017-2019</p> <p>-</p> <p><i>Rp.150.000.000</i></p>
	<p>The Development of Technology and Bioeconomic Modelling of Seabass (<i>Lates calcarifer</i>) Cultivation in Freshwater Media</p> <p>2020-2021</p> <p>-</p> <p><i>Rp.100.000.000</i></p>
	<p>Bioeconomic Model for Profit Maximization of Seaweed Culture In Karimunjawa Islands</p> <p>2019-2021</p> <p>-</p> <p><i>Rp.150.000.000</i></p>
	<p>Hormonal Manipulation Test of Vitellogenin Absorption Rate and Growth of Tawes (<i>Barbonymous gonionatus</i>) Larva</p> <p>2021</p> <p>-</p>

	<i>Rp.30.000.000</i>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	Composition of <i>Daphnia magna</i> Culture Media with Fermentation of Organic Waste as Feed for Tilapia Larvae		2017
	Bioeconomic Model of Optimizing Aquaculture Business Profits Based on Polynomial Growth Functions (WNK Model)		2017
	Optimizing Fish Farming Business Profits with Bioeconomy		2017
	Fisheries Bioeconomics: The Case of Fisheries and Aquaculture		2016
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (11):</i>		
	<p><b>Vivi E. Herawati, Ristiawan A. Nugroho, Johannes Hutabarat, Ocky Karnaradjasa</b></p> <p>Profile of Amino Acids, Fatty Acids, Proximate composition and Growth Performance of <i>Tubifex tubifex</i> culture with Different Animal Wastes and Probiotic Bacteria</p> <p>-</p> <p>Internasional Journal of BIOFLUX Society Romania Volume 9 Issue 3 (2016)</p> <p><a href="http://www.bioflux.com.ro/docs/2016.614-622.pdf">http://www.bioflux.com.ro/docs/2016.614-622.pdf</a></p>		

	<p><b>Dian Wijayanto, Faik Kurohman, Ristiawan Nugroho</b>  Model of Profit Maximization of The Giant Gourami (<i>Osphronemus goramy</i>) Culture  -  Omni-Akuatika Vol 13, No.1 2017  (<a href="http://ojs.omniakuatika.net/index.php/joa/article/view/82">http://ojs.omniakuatika.net/index.php/joa/article/view/82</a>)</p> <p><b>Pinandoyo Pinandoyo, Johannes Hutabarat, Ristiawan Agung Nugroho, Vivi Endar Herawati</b>  Effect of Vitamin C in High Energy Feeds on Growth and Survival Rte of Tiger Grouper Seeds (<i>Ephinepelus fuscogutatus</i>)  -  Aguasains Vol 5 No 2 2017  (<a href="http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1433">http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1433</a>)</p> <p><b>Vivi Endar Herawati, Ristiawan Agung Nugroho, Tristiana Yunarti, Trisnani Dwi Hapsari, Pinandoyo Pinandoyo, Johannes Hutabarat</b>  Analysis Different Natural Feed Consumption on Growth and Survival Rate of Eel (<i>Monoptherus albus</i>) in Clear Water System  -  Aguasains Vol 5 No 2 2017  (<a href="http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1429">http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1429</a>)</p> <p><b>Ristiawan Agung Nugroho, Pinandoyo Pinandoyo, Tristiana Yuniarti, Vivi Endar Herawati</b>  Deposit Structure Character CaCO<sub>3</sub> on the Shells of Scallop (<i>Amusium pleuronectes</i>) as Bio-indicators of Environmental Conditions in the Batang Waters  -  Aguasains Vol 5 No 2 2017  (<a href="http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1435">http://jurnal.fp.unila.ac.id/index.php/JPBP/article/view/1435</a>)</p> <p><b>Vivi Endar Herawati, R A Nugroho, Pinandoyo and Johannes Hutabarat</b></p>
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	<p>Nutritional value content, biomass production and growth performance of <i>Daphnia magna</i> cultured with different animal wastes resulted from probiotic bacteria fermentation</p> <p>-</p> <p>2nd International Conference on Tropical and Coastal Region Eco Development 2016. ; 2017 IOP Conf. Ser. : Earth Environ. Sci. 55 012005 ; (<a href="http://iopscience.iop.org/1755-1315/55/1/012005">http://iopscience.iop.org/1755-1315/55/1/012005</a>)</p>
	<p><b>D Wijayanto, F Kurohman and RA Nugroho</b></p> <p>Bioeconomic of Profit Maximization of Red Tilapia Culture Using Polynomial Growth Model</p> <p>-</p> <p>International Symposium on Marine and Fisheries Research, 2017</p> <p><a href="https://www.researchgate.net/publication/324467452_Bioeconomic_of_profit_maximization_of_red_tilapia_Oreochromis_s_p_culture_using_polynomial_growth_model">https://www.researchgate.net/publication/324467452_Bioeconomic_of_profit_maximization_of_red_tilapia_Oreochromis_s_p_culture_using_polynomial_growth_model</a></p>
	<p><b>Wijayanto, Dian and Nursanto, Didik B. and Kurohman, Faik and Nugroho, Ristiawan Agung</b></p> <p>Profit maximization of whiteleg shrimp (<i>Litopenaeus vannamei</i>) intensive culture in Situbondo Regency</p> <p>-</p> <p>Aquaculture, Aquarium, Conservation &amp; Legislation - International Journal of the Bioflux Society Vol 10(6), 2017</p> <p><a href="http://www.bioflux.com.ro/docs/2017.1436-1444.pdf">http://www.bioflux.com.ro/docs/2017.1436-1444.pdf</a></p>
	<p><b>T Elfitasari, R A Nugroho and A P Nugroho</b></p> <p>The importance of aquaculture community group (ACG) in social media (Facebook) towards the aquaculture knowledge and financial improvement of small scale fish farmers (SSFF) in rural areas of Central Java</p> <p>-</p> <p>Asean-Fen International Fisheries Symposium - 2017 7–9 November 2017, Batu City, East Java, Indonesia IOP Conference Series: Earth and Environmental Science vol 137</p>



<https://iopscience.iop.org/article/10.1088/1755-1315/137/1/012097>

**Subandiyono, Sri Hastuti, Ristiawan Agung Nugroho**

Feed utilization efficiency and growth of Java barb (*Puntius javanicus*) fed on dietary pineapple extract

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Jurnal AACL Bioflux vol 11 issue 2 hal 309-318 tahun 2018

<http://www.bioflux.com.ro/docs/2018.309-318.pdf>

**Vivi Endar Herawati, Ristiawan Agung Nugroho, Pinandoyo, YS Darmanto and Johannes Hutabarat**

The Effect of Fermentation Time with Probiotic Bacteria on Organic Fertilizer as *Daphnia magna* Cultured Medium towards Nutrient Quality, Biomass Production and Growth Performance Enhancement

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3rd International Conference on Tropical and Coastal Region Eco Development" IOP Conference Series: Earth and Environmental Science Vol 116

<https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012089>

**Wijayanto D., Bambang A. N., Nugroho R. A., Kurohman F.**

Financial Analysis of Seaweed Cultivation in Karimunjawa Islands, Indonesia.

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AES Bioflux 12(1):1-10.

<http://www.aes.bioflux.com.ro/docs/2020.1-10.pdf>

**Wijayanto D., Bambang A. N., Nugroho R. A., Kurohman F.**

The Impact of Planting Distance on Productivity and Profit of *Eucaema cottonii* Seaweed Cultivation in Karimunjawa Islands, Indonesia

	<p>-</p> <p>Aquaculture, Aquarium, Conservation &amp; Legislation – International Journal of the Bioflux Society ISSN 1844-9166. Vol.13/No.4. <a href="http://www.bioflux.com.ro/docs/2020.2170-2179.pdf">http://www.bioflux.com.ro/docs/2020.2170-2179.pdf</a></p>
	<p><b>Wijayanto D., Bambang A. N., Nugroho R. A., Kurohman F.</b></p> <p>The Growth Model of <i>Eucheuma cottonii</i> Cultivated in Karimunjawa Islands, Indonesia.</p> <p>-</p> <p>International Journal of the Bioflux Society. ISSN 1844-9166 Vol. 13 / No. 5 Pages 2551-2557 <a href="http://www.bioflux.com.ro/docs/2020.2551-2557.pdf">http://www.bioflux.com.ro/docs/2020.2551-2557.pdf</a></p>
	<p><b>Wijayanto D., Bambang A. N., Nugroho R. A., Kurohman F., Nursanto D. B.</b></p> <p>The Effect of Different Low Salinities on Growth, Feed Conversion Ratio, Survival Rate and Profit of Asian Seabass Cultivation</p> <p>-</p> <p>Aquaculture, Aquarium, Conservation &amp; Legislation – International Journal of the Bioflux Society. ISSN 1844-8143. Vol. 13 / No. 6. <a href="http://www.bioflux.com.ro/docs/2020.3706-3712.pdf">http://www.bioflux.com.ro/docs/2020.3706-3712.pdf</a></p>
	<p><b>Tristiana Yuniarti, Fajar Basuki, Sri Hastuti, Ristiawan Agung Nugroho and Shelfiya Fany</b></p> <p>The Effect of Periodical Estradiol-17<math>\beta</math> Injections with Different Doses on Java Barb (<i>Puntius javanicus</i>) Gonadal Development</p> <p>-</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/530/1/012041">IOP Conference Series: Earth and Environmental Science. https://iopscience.iop.org/article/10.1088/1755-1315/530/1/012041</a></p>

	<p><b>T. Yuniarti, F. Basuki, S Hastuti, R. A. Nugroho and S. Marantika</b></p> <p>Reproductive Performance of Java Barb (<i>Puntius javanicus</i>) Injected sGNRH and Domperidone of Different Dosage</p> <p>-</p> <p><a href="#">IOP Conference Series: Earth and Environmental Science, Volume 750, 6th International Conference on Tropical Coastal Region Eco-Development 2020 27-28 October 2020, Indonesia</a></p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/750/1/012025">https://iopscience.iop.org/article/10.1088/1755-1315/750/1/012025</a></p>
	<p><b>R. A. Nugroho, T. Yuniarti, F. Basuki, S. Hastuti and Listiarini</b></p> <p>Use Of Periodically HCG Hormones Injection for The Gonadal Development of Java Barb (<i>Puntius javanicus</i>) as Bioreproduction Applied on Aquaculture</p> <p>-</p> <p><a href="#">Journal of Physics: Conference Series, Volume 1943, 10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) 2020 24-25 September 2020, Indonesia</a></p> <p><a href="https://iopscience.iop.org/article/10.1088/1742-6596/1943/1/012078">https://iopscience.iop.org/article/10.1088/1742-6596/1943/1/012078</a></p>

	<p><b>R. A. Nugroho, D. Wijayanto, F. Kurohman, I. D. Maulina and R. E. Puspitasari</b></p> <p>The Growth Analysis of <i>Euchema cottonii</i> Using the Simple Longline Method and Basket Method on The Coast of Kemojan Island</p> <p>-</p> <p><a href="#">IOP Conference Series: Earth and Environmental Science, Volume 750, 6th International Conference on Tropical Coastal Region Eco-Development 2020 27-28 October 2020, Indonesia</a></p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/750/1/012056">https://iopscience.iop.org/article/10.1088/1755-1315/750/1/012056</a> ISSN 1755-1315</p>		
<p>Activities in specialist bodies over the last 5 years</p>	<p>--</p>		

**Staff Handbook (Dr. Diana Chilmawati, S.Pi., M.Si.)**

Name	Dr. Diana Chilmawati, S.Pi., M.Si.		
Post	Fish Nutrition		
Academic career	<i>Doctorate (Aquatic Resource Management)</i>	Diponegoro University	2016 – 2019
	<i>Magister (Coastal Resource Management)</i>	Diponegoro University	2009 – 2007
	<i>Undergraduate degree (Aquaculture)</i>	Diponegoro University	1995 – 1999
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2005 - now
Research and development projects over the last 5 years	<p>Optimalisasi Kultur <i>Oithona</i> sp. melalui Pemberian Pakan Organik yang Difermentasi Sebagai Upaya Pengganti Artemia Untuk Peningkatan Produksi Hatchery Larva Udang Vaname (Tahun 2 dari 2 Tahun)</p> <p>2016</p> <p>-</p> <p>Competitive Research Grant, DIPA DIKTI SIMLITABMAS Fund 2015 (Rp 50.000.000,-)</p>		
	<p>Aplikasi Teknologi Pencucian Sel Mikroalga Pada Feeding Regime Guna Peningkatan Produksi dan Kualitas Larva Udang Windu</p> <p>2016</p> <p>-</p> <p>Development and Application Research (DAR), Undip PNBPFund 2016 (Rp 47.000.000,-)</p>		
	<p>Investigation of Alginate From Brown Seaweed <i>Sargassum cristafolium</i> as a Potential Dietary Immunostimulant for Juvenile Penaeid Shrimp, <i>Litopenaeus vannamei</i> Infected by <i>Vibrio parahaemolyticus</i></p> <p>2016</p> <p>-</p> <p>International Publication Research (IPR), Undip PNBPFund 2016 (Rp 85.000.000,-)</p>		

<p>Pengolahan Berbagai Produk makanan Berbasis Ikan Bandeng Melalui Aplikasi Asap Cair Hasil Redestilasi, Nanoenkapsulasi dan Filtrasi Untuk Mendukung Budidaya Ikan Secara Berkelanjutan</p> <p>2016</p> <p>-</p> <p>Applied Research Incentive Program, Ristek Dikti Incentive Fund 2016 (Rp 125.000.000,-)</p>
<p>Optimasi Kultur Harpaticoida <i>Tigriopus</i> sp. Sebagai Substitusi Pakan Alami Larva Udang Vaname (<i>Litopenaeus vannamei</i>) Tahun ke-2</p> <p>2020</p> <p>-</p> <p>Riset Pengembangan dan Penerapan (RPP), Dana Selain APBN Tahun anggaran 2020</p> <p>(Rp 41.000.000,-)</p>
<p>Performa Pertumbuhan dan Kandungan Nutrisi Sidat (<i>Anguilla bicolor</i>) dengan Pengkayaan Pakan Tepung Cacing Tanah (<i>Lumbricus</i> sp)</p> <p>2020</p> <p>-</p> <p>Hibah Penelitian FPIK, Tahun Anggaran 2020</p> <p>(Rp 30.000.000,-)</p>
<p>Efek Pemberian Rasio N/P dari pupuk Urea dan TSP pada Media Walne Terhadap Pola pertumbuhan, Kandungan Protein, dan Fraksi</p> <p>2021</p> <p>-</p> <p>Hibah Penelitian FPIK, Tahun Anggaran 2021</p> <p>(Rp 20.000.000,-)</p>
<p>Optimasi Kultur Harpaticoida <i>Tigriopus</i> sp. Sebagai Substitusi Pakan Alami Larva Udang Vaname (<i>Litopenaeus vannamei</i>) Tahun ke-3</p> <p>2021</p> <p>-</p> <p>Riset Pengembangan dan Penerapan (RPP), Dana Selain APBN Tahun anggaran 2021</p>

	(Rp 40.000.000,-)
Industry collaborations over the last 5 years	-
Patents and proprietary rights	Formula Pakan Organik 2021 yang Terfermentasi untuk Budidaya Copepoda <i>Oithona</i> sp.
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (9):</i></p> <p>Diana Chilmawati, Suminto</p> <p>The Effect of Different Diet of Phytoplankton Cells on Growth Performance of Copepod, <i>Oithona</i> sp. in Semi-Mass Culture</p> <p>-</p> <p>Aquatic Procedia, 2016, Vol. 7, 39-45</p> <p><b>DOI: <a href="https://doi.org/10.1016/j.aqpro.2016.07.005">10.1016/j.aqpro.2016.07.005</a></b></p> <p><b><a href="https://www.sciencedirect.com/science/article/pii/S2214241X16300268">https://www.sciencedirect.com/science/article/pii/S2214241X16300268</a></b></p>
	<p>Agung Sudaryono, Diana Chilmawati, Titik Susilowati</p> <p>Oral Administration of Hot-Water Extract of Tropical Brown Seaweed, <i>Sargassum cristaefolium</i>, to Enhance Immune Response, Stress Tolerance and Resistance of White Shrimp, <i>Litopenaeus vannamei</i>, to <i>Vibrio parahaemolyticus</i></p> <p>-</p> <p>Journal of the World Aquaculture Society, 2018, Vol. 49, Issue 5, 877-888</p> <p>Link: <a href="http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1749-7345">http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1749-7345</a></p>
	<p>Suminto, Diana Chilmawati, Dicky Harwanto</p> <p>Effect of Different Doses of Fermented Organic Feed on the Growth Performance of <i>Oithona</i> sp. in Semi-Mass Culture Condition</p> <p>-</p>

Omni Akuatika, Fisheries And Marine Sciences For Nature Protection And Community Welfare, 2018, Vol. 14, Issue 3, 53-59

<https://ojs.omniakuatika.net/index.php/joa/article/view/456>

Suminto, Diana Chilmawati, Titik Susilowati, I. Adhinugroho  
The Effects of Microalgal Diet With Enrichment of Fermented Organic Matters (Tofu Waste, Rice Bran and Fish Meal) on Growth and Reproduction of *Diaphanosoma brachyurum*

-

4th International Conference on Tropical and Coastal Region Eco Development, IOP Conf. Series: Earth and Environmental Science, 2019, Vol. 246, 1-9

doi:10.1088/17551315/246/1/012036

Diana Chilmawati, Johannes Hutabarat, Sutrisno Anggoro, Suminto

Biomolecular Identification and Optimization of Growth Performance and Egg Production in *Oithona* sp. Under Different Salinity Culture Conditions

-

AAFL Bioflux, 2019, Vol. 12, Issue 2, 575-585

<http://www.bioflux.com.ro/aafl>

Suminto, Diana Chilmawati

Coexistence Effect of Rotifer, *Brachionus rotundiformis* and Copepod, *Oithona similis* in Culture Media on Growth Performance and Eggs Production

-

Biodiversitas, 2019, Vol. 20, Issue 8, 2396-2402

DOI:10.13057/biodiv/d200838

Diana Chilmawati, Johannes Hutabarat, Sutrisno Anggoro, Suminto

Effects of Aeration Flow Rate in the Culture Medium on the Growth Performance and Egg Production of Copepod *Oithona similis* Fed with Fermented Organic Diet

-

E3S Web Conf, The 3<sup>rd</sup> International Symposium on Marine



	<p>and Fisheries Research (3<sup>rd</sup> ISMFR), 2020, Vol. 147, 1-12  <a href="https://doi.org/10.1051/e3sconf/202014701006">https://doi.org/10.1051/e3sconf/202014701006</a></p>
	<p>Ima Wijayanti, F. Swastawati, Ambariyanto, B. Cahyono, Diana Chilmawati</p> <p>Application of Filtration and Re-distillation of Liquid Smoke as Flavouring Agent on Texture, Proximate and Sensory Characteristics of Milkfish (<i>Chanos chanos</i>) Fishballs</p> <p>-</p> <p>African Journal of Food, Agriculture, Nutrition and Development, 2020, Vol. 20, Issue 2, 15569-15581  DOI: 10.18697/ajfand.90.17940</p>
	<p>Diana Chilmawati, Johannes Hutabarat, Sutrisno Anggoro, Suminto</p> <p>Organic Feed Enrichment Effects toward Growth Performance and Egg Production of <i>Oithona similis</i></p> <p>-</p> <p>Omni Akuatika, 2020, Vol. 16, Issue 3, 128-135  <a href="http://dx.doi.org/10.20884/1.oa.2020.16.3.852">http://dx.doi.org/10.20884/1.oa.2020.16.3.852</a></p>
	<p>Diana Chilmawati, Suminto, Dicky Harwanto</p> <p>Performance of growth, nutrition value, total carotene, EPA, and DHA in eel (<i>Anguilla bicolor</i>) in the culture with enrichment of earthworm (<i>Lumbricus</i> sp.) flour</p> <p><b>AACL Bioflux, 2021, Volume 14, Issue 3.</b>  <a href="http://www.bioflux.com.ro/docs/2021.1570-1580.pdf">http://www.bioflux.com.ro/docs/2021.1570-1580.pdf</a></p>
	<p>Fronthea Swastawati, Ambariyanto, Bambang Cahyono, Ima Wijayanti, Chilmawati, Hadiyanto, AN Al-Baarri</p> <p>Physicochemical Changes and Sensory Quality of Liquid Smoked Milkfish Nuggets</p> <p><b>AJFAND Vo. 21 No. 5. June 2021.</b>  <a href="https://ajfand.net/Volume21/No5/index.html">https://ajfand.net/Volume21/No5/index.html</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Masyarakat Akuakultur Indonesia (MAI)</i>                      29 Juli 2021</p>



## Staff Handbook (Alfabetian Harjuno Condro Haditomo, S.Pi., M.Si.)

Name	Alfabetian Harjuno Condro Haditomo, S.Pi., M.Si.		
Post	Aquaculture - Fish Health Management		
Academic career	<i>Magister (Aquaculture Science)</i>	Bogor Agricultural University	2009 – 2011
	<i>Undergraduate degree (Aquaculture)</i>	Diponegoro University	2000 – 2005
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2006 - now
Research and development projects over the last 5 years	Genetic Diversity of Pathogenic Bacterial Agents to Control Fish Diseases 2016 - (Funded by State Ministry Of Research and Technology, Republic of Indonesia)		
	Investigation On Polychaetes As Carrier Of Enterocytozoon Hepatopenaei In The Hepatopancreatic Microsporidiasis (HPM) Outbreak Inshrimp Pond 2016 - Funded by Diponegoro University		
	Screening and Application of Potensial Microbes as Probiotic to control fish Bacterial Pathogen 2016 - Funded by Diponegoro University ( <b>Principal Investigator</b> )		
	Genetics Variation of White Spot Syndrome Virus (WSSV) on polychaeta <i>Dendronereis</i> spp in Traditional Ponds 2016 - Funded by State Ministry Of Research and Technology, Republic of Indonesia		

	<p>Investigation On Polychaetes As Carrier Of Enterocytozoon Hepatopenaei In The Hepatopancreatic Microsporidiasis (HPM) Outbreak Inshrimp Pond (Second Years)</p> <p>2017</p> <p>-</p> <p>Funded by Diponegoro University</p>
	<p>Screening and Application of Potential Microbes as Probiotic to control fish Bacterial Pathogen (Second years)</p> <p>2017</p> <p>-</p> <p>Funded by Diponegoro University <b>(Principal Investigator)</b></p>
	<p>Screening and Application of Potential Microbes as Probiotic to control fish Bacterial Pathogen(Third years)</p> <p>2018</p> <p>-</p> <p>Funded by Diponegoro University <b>(Principal Investigator)</b></p>
	<p>Verticulture Method Of Seaweed Production Performance In Karimunjawa Jepara</p> <p>2019</p> <p>-</p> <p>-</p>
	<p>Study of N / P ratio of growth and lath (<i>Caulerpa racemosa</i>) Nutrition in Closed System Cultivation</p> <p>2019</p> <p>-</p> <p>-</p>
	<p>Explorative Research: Parasites on <i>Anadara granosa</i></p> <p>2020</p> <p>-</p> <p>-</p>
	<p>KHV Vaccine – Fibro Product</p> <p>2020</p> <p>-</p> <p>-</p>
Industry collaborations over	-

the last 5 years	
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (14):</i></p> <p>Haditomo A.H.C., Widanarni, Lusiastuti. A.M.</p> <p>The Study of Bacillus firmus as Probiotic Candidate in Supresing <i>Aeromonas hydrophila</i> in Culture Media</p> <p>-</p> <p>Journal Fisheries Science and Technology, 2016, Vol. 11, Issue 2, 113-116</p> <p><a href="https://ejournal.undip.ac.id/index.php/saintek/article/view/11145/8766">https://ejournal.undip.ac.id/index.php/saintek/article/view/11145/8766</a></p>
	<p>Sarjito, Haditomo A.H.C., Desrina, Feriandika F.B., Setyaningsih L., Prayitno S,B.</p> <p>Ectoparasites and Vibrios Associated with Fattening Cultured Mud Crabs (<i>Scylla serrata</i>) from Pemalang Coast, Indonesia</p> <p>-</p> <p>Jurnal Teknologi, 2016, Vol. 78, Issue 2-4, 207-214.</p> <p><a href="https://journals.utm.my/jurnalteknologi/article/view/8209/4954">https://journals.utm.my/jurnalteknologi/article/view/8209/4954</a></p>
	<p>Haditomo, A.H.C., Sarjito, Desrina, S.B Prayitno.</p> <p>Screening Of Isolated Potential Probiotic From Mud-Aquaculture In Central Java Indonesia With Molecular Based</p> <p>-</p> <p>Handbook of the 10 Symposium on Diseases in Asian Aquaculture (DAA10). 2016. Poster.</p>
	<p>Sarjito, Haditomo A.H.C., Ariyati, R.W., Prayitno S.B.</p> <p>The Diversity of Causative Agent Associated with Bacterial Diseases on Catfish (<i>Clarias gariepinus</i>) with Molecular Based from Kendal, Indonesia</p> <p>-</p> <p>Journal Advanced Science Letters, 2017, Vol. 23, Issue 7, 6479-6482.</p> <p><a href="http://eprints.undip.ac.id/58286/1/The_diversity_of_Causative_Agent_Associateg_with_Bacterial_Diseases_on_Catfish_with_Molecular_Based_from_Kendal%2C_Indonesia.pdf">http://eprints.undip.ac.id/58286/1/The_diversity_of_Causative_Agent_Associateg_with_Bacterial_Diseases_on_Catfish_with_Molecular_Based_from_Kendal%2C_Indonesia.pdf</a></p>
	Haditomo, A.H.C., Desrina, Sarjito, S.B Prayitno.

	<p>Probiotic Candidates from Fish Pond Water in Central Java Indonesia</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science, 2018</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012018/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012018/pdf</a></p>
	<p>Sarjito, Haditomo A.H.C., Desrina, Ariyati, R.W., Prayitno S.B.</p> <p>The Diversity of Causative Agent Associated With Bacterial Diseases on Catfish (<i>Clarias gariepinus</i>) with Molecular Based from Demak, Indonesia</p> <p>-</p> <p>Omni-Akuatika, 2018, Vol. 14, Issue 2, 100-106</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/553/197">https://ojs.omniakuatika.net/index.php/joa/article/view/553/197</a></p>
	<p>Nadlir, A., Susilowati, T., Adi, K., Harwanto, D., Haditomo A.H.C., Windarto S</p> <p>Production Performance of <i>Gracilaria verrucosa</i> using Verticulture Method with Various Wide Planting Area in Karimunjawa</p> <p>-</p> <p>Omni-Akuatika, 2019, Vol. 15, Issue 1, 47–58</p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/671">https://ojs.omniakuatika.net/index.php/joa/article/view/671</a></p>
	<p>Sarjito, Haditomo, A.H.C., Sabdaningsih, A., Desrina, and Prayitno, S.B.</p> <p>Aspergillus Diversity Associated with Fungal Diseases on Fish with Molecular Based</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science 246, 2019</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012035/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012035/pdf</a></p>
	<p>Agustina, P., Sarjito, Haditomo, A.H.C.</p> <p>Study of <i>Bacillus methylotrophicus</i> as a Probiotic Candidate Bacteria With Different Concentration Against <i>Aeromonas hydrophila</i> on Water as a Cultivation Media of Tilapia (<i>Oreochromis niloticus</i>)</p> <p>-</p> <p>IOP Conf. Series: Earth and Environmental Science 246, 2019</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012030/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012030/pdf</a></p>
	<p>Wulansari, F., Prayitno, S.B., Haditomo, A.H.C</p> <p>Study of Probiotic Candidate Bacteria CBL20 for Inhibiting of <i>Aeromonas hydrophila</i> with Different Concentration in Tilapia (<i>Oreochromis niloticus</i>)</p>

	<p>-</p> <p>IOP Conf. Series: Earth and Environmental Science 246, 2019</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012032/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012032/pdf</a></p>
	<p>Artanto Y. H., Prayitno S. B., Sarjito, Desrina, Haditomo A. C.</p> <p>Molecular Characteristics of Indonesian <i>Enterocytozoon hepatopenaei</i> Isolates Based on Sequence Analysis of Spore Wall Protein Genes</p> <p>-</p> <p>AACL Bioflux, 2019, Vol. 12, Issue 5, 2004-2014.</p> <p><a href="http://www.bioflux.com.ro/docs/2019.2004-2014.pdf">http://www.bioflux.com.ro/docs/2019.2004-2014.pdf</a></p>
	<p>Desrina, Prayitno S. B., Haditomo A. H. C., Latritiani, R., Sarjito</p> <p>Detection of <i>Enterocytozoon hepatopenaei</i> (EHP) DNA in the Polychaetes from Shrimp Ponds Suffering White Feces Syndrome Outbreaks</p> <p>-</p> <p>Biodiversitas, 2020, Vol. 21, Issue 1, 369-374</p> <p><a href="https://smujo.id/biodiv/article/view/4304/3612">https://smujo.id/biodiv/article/view/4304/3612</a></p>
	<p>Sarjito, Prayitno S.B, Rochani N.Q.S, Haditomo A.H.C, Amalia, R, Desrina</p> <p>The Potential of Epibiotic Mixed of Binahong Leaves and Curcumin Extracts in Feed to Against <i>Aeromonas hydrophila</i> Infection in Catfish (<i>Clarias gariepinus</i>)</p> <p>-</p> <p>Indonesian Journal of Fisheries Science and Technology, 2020, Vol. 16, Issue 1, 51-58</p>
	<p>Sarjito, Reka K. Wati, Alfabetian H. C. Haditomo, Desrina, Sabdaningsih A, Slamet B. Prayitno.</p> <p>Pathogenicity of Bacterial Isolate GM 01 in Gourami (<i>Osphronemus goramy</i>)</p> <p>-</p> <p>AACL Bioflux, 2020, Vol. 13, Issue 2</p> <p><a href="http://www.bioflux.com.ro/docs/2020.669-683.pdf">http://www.bioflux.com.ro/docs/2020.669-683.pdf</a></p>
Activities in specialist bodies over the last 5 years	<p>-</p>





### Staff Handbook (Tristiana Yuniarti, S.Pi, M.Si)

Name	Tristiana Yuniarti, S.Pi, M.Si		
Post	Reproductive Biology		
Academic career	<i>Magister (Reproductive Biology)</i>	Bogor Agricultural Institute	2001 – 2003
	<i>Undergraduate degree (Aquaculture)</i>	Diponegoro University	1994 – 1999
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2003 - now
Research and development projects over the last 5 years	Analisis Tingkat Konsumsi Pakan Alami yang Berbeda terhadap Pertumbuhan dan Kelulushidupan Belut ( <i>Monoptherus albus</i> ) pada Sistem Budidaya Air Bersih 2016 - PNBP UNDIP , Rp.15.000.000		
	Analisis Performance Pertumbuhan dan Produksi Lele ( <i>Clarias gariepinus</i> Buechell, 1822) Berbasis Sistem Bioflok dengan Sistem Kepadatan Tinggi 2017 - PNBP FPIK UNDIP (Rp. 25.000.000)		
	Analisis Keragaan Pertumbuhan dan Kelulushidupan Benih Lele Hasil Hibridisasi Resiprokal Induk Lele Mutiara dan Lele Dumbo Lokal Semarang 2018 - PNBP FPIK UNDIP (Rp. 40.000.000)		
	Keragaan Performa Reproduksi Ikan Tawes ( <i>Punctius javanicus</i> ) Sebagai Indigenous Spesies Melalui Manipulasi Hormon		

	<p>2019</p> <p>-</p> <p>PNBP FPIK UNDIP (Rp. 40.000.000)</p>
	<p>Inovasi Teknologi Budidaya Lele Kepadatan Tinggi Berbasis Bioflok di Teaching Factory FPIK UNDIP</p> <p>2020</p> <p>-</p> <p>PNBP FPIK UNDIP (Rp. 50.000.000)</p>
	<p>Uji Manipulasi Hormonal terhadap Laju Penyerapan Kuning Telur dan Pertumbuhan Larva Ikan Tawes (<i>Barbonymus gonionatus</i>)</p> <p>PNBP FPIK UNDIP (Rp. 30.000.000)</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (10):</i></p>
	<p>Fajar Basuki, <b>Tristiana Yuniarti</b>, Dicky Harwanto, Titik Susilowati</p> <p>Growth Performance of Catfish (<i>Clarias Gariepinus</i> Burchell, 1822) Cultured in High Density on the Biofloc System</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2018, Vol. 116, Issue 1, 012007</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012007/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/116/1/012007/pdf</a></p>
	<p>Sri Nurhidayah Muhtalief, Titik Susilowati, <b>Tristiana Yuniarti</b>, Dicky Harwanto, Fajar Basuki</p> <p>Production Performance of Sangkuriang Catfish (<i>Clarias gariepinus</i> Burchell-1822) N-2 (Nursery-2) Cultured on Recirculation System with Different Filter Media</p>

	<p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2019, Vol. 246, Issue 1, 012061</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012061/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012061/pdf</a></p>
	<p>Fajar Basuki, Dicky Harwanto, <b>Tristiana Yuniarti</b>, Titik Susilowati</p> <p>The Effect of Different Stocking Density of Eggs on The Production of Sangkuriang Catfish Seeds (<i>Clarias gariepinus</i> Burchell 1822) by Using Filtration System</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science, 2019, Vol. 246, Issue 1, 012062</p> <p><a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012062/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012062/pdf</a></p>
	<p><i>Arifianto Heraedi, Slamet Budi Prayitno, Tristiana Yuniarti</i></p> <p>The Effect of Different Thyroxine Hormone (T4) Concentration on The Growth, Survival, and Pigment Development of Pink Zebra Fish Larvae (<i>Brachydanio reiro</i>)</p> <p>-</p> <p><b>Omni-Akuatika, 14 (2) : 21 – 28, 2018</b></p> <p><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/538/185">https://ojs.omniakuatika.net/index.php/joa/article/view/538/185</a></p>
	<p>Fajar Basuki, Dicky Harwanto, Tristiana Yuniarti and Titik Susilowati</p> <p>Return Cost Ratio Analysis on Seed Production N1 (Nursery 1) of Sangkuriang Catfish Variety (<i>Clarias gariepinus burchell</i>) With Different Stocking Density of Eggs Using Filtration System</p> <p>-</p> <p>IOP Conference Series: Earth and Environmental Science</p>

	<p><i>IOP Conf. Ser.: Earth Environ. Sci.</i> <b>246</b> 012055  <a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012055/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012055/pdf</a></p>
	<p>Septi Nur Azizah, Titik Susilowati, Tristiana Yuniarti, Dicky Harwanto and Fajar Basuki  The Effect of Different Stocking Density of Eggs on The Production of Sangkuriang Catfish Seeds (<i>Clarias gariepinus</i> Burchell 1822) by Using Filtration System  -  IOP Conference Series: Earth and Environmental Science.2019  <i>IOP Conf. Ser.: Earth Environ. Sci.</i> <b>246</b> 012062  <a href="https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012062/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012062/pdf</a></p>
	<p>Fajar Basuki, T Yuniarti , Ristiawan AN , and Sri Hastuti  Preliminary Study of Various Intervals and Administration of Feed Enriched with Turmeric and Garlic on the Growth Performance of Catfish  -  E3S Web of Conferences 147, 01010 (2020)  <a href="https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/07/e3sconf_ismfr20_01010.pdf">https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/07/e3sconf_ismfr20_01010.pdf</a></p>
	<p><b>Tristiana Yuniarti*</b>, Fajar Basuki, Sri Hastuti, Ristiawan Agung Nugroho and Shelfiya Fany  The effect of periodical estradiol-17<math>\beta</math> injections with different doses on Java barb (<i>Puntius javanicus</i>) gonadal development  IOP Conference Series: Earth and Environmental Science.2020  <i>IOP Conf. Ser.: Earth Environ. Sci.</i> <b>530</b>, 012041  <b>T Yuniarti<sup>1,*</sup>, F Basuki<sup>1</sup>, S Hastuti<sup>1</sup>, R A Nugroho<sup>1</sup> and S Marantika<sup>1</sup></b></p>

	<p>Reproductive Performance of Java Barb (<i>Puntius javanicus</i>) Injected sGNRH and Domperidone of Different Dosage</p> <p>IOP Conference Series: Earth and Environmental Science.2021  <i>IOP Conf. Ser.: Earth Environ. Sci.</i> <b>750</b>, 012025</p>
	<p><b>R A Nugroho, T Yuniarti, F Basuki, S Hastuti, Listiarini</b></p> <p>Use of periodically hCG hormones injection for the gonadal development of java barb (<i>Puntius javanicus</i>) as bioreproduction applied on aquaculture</p> <p>Journal of Physics: Conference Series <b>1943</b> (2021) 012078</p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>

## Staff Handbook (Lestari Lakhsmi Widowati, S.Pi., M.Pi.)

Name	Lestari Lakhsmi Widowati, S.Pi., M.Pi.		
Post	Aquaculture Land Suitability		
Academic career	<i>Doctorate</i> (Coastal Resources Management)	Diponegoro University	2016 – now
	<i>Magister</i> (Fisheries and Marine)	Diponegoro University	2000 – 2004
	<i>Undergraduate degree</i> (Fisheries and Marine)	Diponegoro University	1995 – 2000
Employment	Staff at Fisheries and Marine Departement	Central Java Province	2005 – 2009
	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2009 – now
Research and development projects over the last 5 years	Ecological and Economical Analysis for Multisector Analysis in Abraded Area by Implementation of Integrated Multi Trophic Aquaculture (IMTA) For Recovering Aquaculture Production in Kaliwlingi, Brebes, Indonesia 2016 – 2017		
	Monitoring of Coastal Field School and Mix Mangrove Aquaculture, Collaboration with Building with Nature Project for Indonesia, Funded by Ecoshape, The Netherlands. 2016 – 2019 -		
	Project of Sustainable Aquaculture to Support Mangrove Forest Restoration in Indonesia (PASMI) collaboration with Wageningen University, funded by NOW-WOTRO. 2016-2019 -		
Industry	-		

collaborations over the last 5 years	
Patents and proprietary rights	-
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (5):</i>
	Sri Rejeki, Restiana Wisnu Ariyati, Lestari Lakshmi Widowati Application of Integrated Multi Tropic Aquaculture Concept in an Abraded Brackish Water Pond - Jurnal Teknologi (Sciences and Engineering), Technology Malaysia University, 2016, Vol. 78, 3-3 <a href="http://eprints.undip.ac.id/65101/1/Application_of_Integrated_Multi_Tropic_Aquaculture_Concept_in_an_Abraded_Brackish_Water_Pond.pdf">http://eprints.undip.ac.id/65101/1/Application_of_Integrated_Multi_Tropic_Aquaculture_Concept_in_an_Abraded_Brackish_Water_Pond.pdf</a>
	Sri Rejeki, Restiana Wisnu Ariyati, Lestari Lakshmi Widowati The Effect of Three Cultivation Methods and Two Seedling Types on Growth, Agar Content and Gel Strength of <i>Gracilaria verrucosa</i> - Journal of Aquatic Research, 2018, Vol. 44, Issue 1, 65-70 <a href="https://reader.elsevier.com/reader/sd/pii/S1687428518300013?token=74FEB21E8C10E72384CB93D411049E14F0097A16258716F02878DB7C357F0257E5BED0177D976B51F4A7C3E224089E2D&amp;originRegion=eu-west-1&amp;originCreation=20211006065037">https://reader.elsevier.com/reader/sd/pii/S1687428518300013?token=74FEB21E8C10E72384CB93D411049E14F0097A16258716F02878DB7C357F0257E5BED0177D976B51F4A7C3E224089E2D&amp;originRegion=eu-west-1&amp;originCreation=20211006065037</a>
	Restiana Wisnu Ariyati, Sri Rejeki, Lestari Lakshmi Widowati, Tita Elfitasari, Roel H. Bosma Effect of Three Types of Liquid Compost Combined with <i>Avicennia Marina</i> Leaves on Growth And Survival of Tiger Prawns ( <i>Penaeus monodona</i> ) - Int Aquat Res, 2019, Vol. 11, 311-321 <a href="https://link.springer.com/content/pdf/10.1007/s40071-019-00239-x.pdf">https://link.springer.com/content/pdf/10.1007/s40071-019-00239-x.pdf</a>
Sri Rejeki, Marcel Middeljans, Lestari Lakshmi Widowati, Restiana Wisnu Ariyati, Tita Elfitasari, Roel H. Bosma The Effects of Decomposing Mangrove Leaf Litter and Its	

	<p>Tannins on Water Quality and the Growth and Survival of Tiger Prawn (<i>Penaeus monodon</i>) Post-Larvae</p> <p>-</p> <p>Biodiversitas, 2019, Vol. 20, Issue 9, 2750-2757</p> <p><a href="https://smujo.id/biodiv/article/view/3941/3419">https://smujo.id/biodiv/article/view/3941/3419</a></p>
	<p>Lestari Lakshmi Widowati, Restiana Wisnu Ariyati, Sri Rejeki, Ecological And Economical Analysis for Implementing Integrated Multi Trophic Aquaculture (IMTA) in An Abraded Area to Recover Aquaculture Production in Kaliwlingi, Brebes, Indonesia</p> <p>-</p> <p>Geo Eco Marina, 2019, Vol. 25, 161-170</p> <p><a href="https://journal.geoecomar.ro/geo-eco-marina/article/view/12_2019/94">https://journal.geoecomar.ro/geo-eco-marina/article/view/12_2019/94</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>



## Staff Handbook (Dicky Harwanto, S.Pi, M.Sc, Ph.D.)

Name	Dicky Harwanto, S.Pi, M.Sc, Ph.D.		
Post	Aquaculture		
Academic career	<i>Doctorr (Fisheries Science)</i>	Pukyong National University	2006 – 2009
	<i>Magister (Fisheries Science)</i>	Pukyong National University	2004 – 2006
	<i>Undergraduate degree (Fisheries Science)</i>	Diponegoro University	1995 – 2000
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	
Research and development projects over the last 5 years	Post-Doctoral Program, Biotechnology Department, College of Fisheries Science, Pukyong National University, Busan Korea		
	2016	-	-
	Visiting researcher, Biotechnology Department, College of Fisheries Science, Pukyong National University, Busan, Korea		
	2017	-	-
Visiting researcher, Biotechnology Department, College of Fisheries Science, Pukyong National University, Busan, Korea			
2018	-	-	
Visiting researcher, Biotechnology Department, College of Fisheries Science, Pukyong National University, Busan, Korea			
2019	-	-	

	-
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (10):</i></p> <p><b>Gong Hyeon Lee, Dicky Harwanto, Jae-Suk Choi, Mi-Ryung Kim, Deuk Hee Jin, Hyung-Joo Jin, Yong-Ki Hong</b></p> <p>Protein-rich Extract from the Bagrid Catfish <i>Pelteobagrus fulvidraco</i> Improves Exercise Performance and Anti-fatigue</p> <p>-</p> <p>Current Nutrition and Food Science, 2017, Vol. 13, Issue 1, 16 – 20</p> <p><a href="https://www.eurekaselect.com/145198/article">https://www.eurekaselect.com/145198/article</a></p>
	<p><b>Lisa Andriani Sutikno, Gong-Hyeon Lee, Dicky Harwanto, Jae-Suk Choi, Yong-Ki Hong</b></p> <p>The Ethanol Extract from The Rhodophyta <i>Gloiopeltis furcata</i> and its Active Ingredient Docosahexaenoic Acid Improve Exercise Performance in Mice</p> <p>-</p> <p>Journal of Food Biochemistry, 2019, Vol. 43, Issue 9, e12980</p> <p><a href="https://onlinelibrary.wiley.com/doi/epdf/10.1111/jfbc.12980">https://onlinelibrary.wiley.com/doi/epdf/10.1111/jfbc.12980</a></p>
	<p><b>Dicky Harwanto, Ardi Ardiansyah, Hyung-Joo Jin, Jae-Suk Choi, Deuk-Hee Jin, Yong-Ki Hong</b></p> <p>The Hot Water Extract and Active Components Nicotinamide and Guanosine of the Leather Carp <i>Cyprinus carpio nudis</i> Improve Exercise Performance in Mice</p> <p>-</p> <p>Journal of food biochemistry, 2019, Vol. 43, Issue 11</p> <p><a href="https://onlinelibrary.wiley.com/doi/epdf/10.1111/jfbc.13004">https://onlinelibrary.wiley.com/doi/epdf/10.1111/jfbc.13004</a></p>
	<p><b>Dicky Harwanto, Pandu Saputro, Titik Susilowati, Alfabetian Harjuno Condro Haditomo, Seto Windarto</b></p>

Effect of different N:P ratios application on the cultivation media for the growth and fiber content of *Caulerpa racemosa* reared in tarpaulin ponds

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AAFL Bioflux, 2020, Vol. 13, Issue 5

<http://www.bioflux.com.ro/docs/2020.3117-3125.pdf>

**Diana Chilmawati, Suminto, Subandiyono, Dicky Harwanto**

Performance of growth, nutrition value, total carotene, EPA, and DHA in eel (*Anguilla bicolor*) in the culture with enrichment of earthworm (*Lumbricus* sp.) flour

-

AAFL Bioflux, 2021, Volume 14, Issue 3

<https://www.bioflux.com.ro/docs/2021.1570-1580.pdf>

Pinandoyo\* , V. E. Herawati, J. Hutabarat, Dicky Harwanto

The Effect of Additional Probiotics on Different Media to Gourami Fish *Osphronemus goramy*; Lacépède, 1801 Efficiency of Feed and Growth

Journal of Hunan University, Vol. 48. No. 5. 2021: 146-156

<http://www.jonuns.com/index.php/journal/article/view/591/588>

Maria Dyah Nur Meinita, Dicky Harwanto, Jae Hak Sohn, Jin Soo Kim, Jae Suk Choi

*Hizikia fusiformis*: Pharmacological and Nutritional Properties

Journals Foods, volume 10, Issue 7 :1660

<https://www.mdpi.com/2304-8158/10/7/1660>

Seto Windarto\*, Angga Hendra Prastiwahyudi, Titik Susilowati, Alfabetian H. Condro Haditomo, Dicky Harwanto

Effect of Different Substrates on Growth and Protein Content of *Caulerpa Racemosa*

Journal of Hunan University, Vol. 48. No. 7. 2021 :265-275

<http://jonuns.com/index.php/journal/article/view/648/644>

	<p>Bertoka Fajar Surya Perwira Negara, gabriel Tirtawijaya, Woo-Hee Cho, Dicky Harwanto, Jae-Hak Sohn, Jin-Soo Kim, Jae-Suk Choi</p> <p>Effects of Frying Processes on the Nutritional and Sensory Characteristics of Different Mackerel Products</p> <p>Journals Processes 2021, 9(9), 1645</p> <p><a href="https://www.mdpi.com/2227-9717/9/9/1645">https://www.mdpi.com/2227-9717/9/9/1645</a></p>

**Staff Handbook (Seto Windarto, S.Pi., M.Sc., M.P.)**

Name	Seto Windarto, S.Pi., M.Sc., M.P.		
Post	Aquaculture Biotechnology		
Academic career	<i>Magister (Aquaculture)</i>	Brawijaya University	2016 – 2017
	<i>Magister (Biological Science and Technology)</i>	National Pingtung University of Science and Technology	2015 – 2017
	<i>Undergraduate degree (Fishery Product Technology)</i>	Brawijaya University	2010 – 2014
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2018 - now
Research and development projects over the last 5 years	Kajian N/P Rasio Terhadap Pertumbuhan Dan Nutrisi Latoh ( <i>Caulerpa Lentilifera</i> ) Pada Budidaya Sistem Tertutup ( <i>Study of N/P Ratio on Growth and Nutrition of Latoh (Caulerpa Lentilifera) in Closed System Cultivation</i> )		
	2019	-	Rp. 40.000.000
Research and development projects over the last 5 years	Pengaruh ZPT Alami terhadap Pertumbuhan dan Kandungan Nutrisi <i>Caulerpa racemose</i> di Jepara, Jawa Tengah ( <i>The Effect of Natural Growth Substances on the Growth and Nutrient of Caulerpa racemose in Jepara, Central Java</i> )		
	2020	-	Rp. 40.000.000
Industry collaborations over the last 5 years	-		

Patents and proprietary rights	-
Important publications over the last 5 years	<p data-bbox="523 271 1252 304"><i>Selected recent publications from a total of approx.</i></p> <p data-bbox="523 327 576 360">(9):</p> <p data-bbox="523 383 1401 454">Seto Windarto, Happy Nursyam, Jue-Liang Hsu, Meng-Chou Lee</p> <p data-bbox="523 477 1401 548">Antioxidant Activity of Protein Fractions Derived from <i>Acrochaetium</i> sp. (Rhodophyta) Enzymatic Hydrolysates</p> <p data-bbox="523 571 539 600">-</p> <p data-bbox="523 607 1401 678">Journal of Life Science and Biomedicine, 2018, Vol. 8, Issue 1, 10-18</p> <p data-bbox="523 701 1401 813"><a href="https://jlsb.science-line.com/attachments/article/59/J.%20Life%20Sci.%20Biomed.%2008(1)%2010-18,%202018.pdf">https://jlsb.science-line.com/attachments/article/59/J.%20Life%20Sci.%20Biomed.%2008(1)%2010-18,%202018.pdf</a></p> <p data-bbox="523 887 1102 920">Sri Hastuti, Subandiyono, Seto Windarto</p> <p data-bbox="523 943 1353 976">Blood Performance of Jaundice Catfish <i>Clarias gariepinus</i></p> <p data-bbox="523 999 539 1028">-</p> <p data-bbox="523 1050 1046 1084">AAFL Bioflux, 2019, Vol. 12, Issue 2</p> <p data-bbox="523 1106 1182 1140"><a href="http://www.bioflux.com.ro/docs/2019.480-489.pdf">http://www.bioflux.com.ro/docs/2019.480-489.pdf</a></p> <p data-bbox="523 1234 1326 1305">Titik Susilowati, Agus Nadlir, Alfabetian Harjuno Condro Haditomo, Seto Windarto, Dicky Harwanto, Kurnia Adi</p> <p data-bbox="523 1328 1401 1440">Production of Performance of <i>Gracilaria verrucosa</i> using Verticulture Method with Various Wide Planting Area in Karimunjawa</p> <p data-bbox="523 1462 539 1491">-</p> <p data-bbox="523 1514 1166 1547">Omni Akuatika, 2019, Vol. 15, Issue 1, 47-58</p> <p data-bbox="523 1570 1350 1603"><a href="https://ojs.omniakuatika.net/index.php/joa/article/view/671/235">https://ojs.omniakuatika.net/index.php/joa/article/view/671/235</a></p> <p data-bbox="523 1686 1377 1758">Dicky Harwanto, Pandu Saputro, Titik Susilowati, Alfabetian H. Condro Haditomo, Seto Windarto</p> <p data-bbox="523 1780 1366 1892">Effect of Different N:P Ratios Application on the Cultivation Media for the Growth and Fiber Content of <i>Caulerpa racemose</i> Reared in Tarpaulin Ponds.</p> <p data-bbox="523 1915 539 1944">-</p>

	<p>AAFL Bioflux, 2019, Vol. 13, Issue 5, 2738-3744  <a href="http://www.bioflux.com.ro/docs/2020.3117-3125.pdf">http://www.bioflux.com.ro/docs/2020.3117-3125.pdf</a></p>
	<p>Vivi Endar Herawati, Retno Ayu, YS Darmanto, Nurmanita Rismaningsih, Seto Windarto, Ocky Karnaradjasa  Amino Acid and Fatty Acid Profiles of Mozambicus tilapia (<i>Oreochromis mossambicus</i>) in Different Aquaculture Systems from Indonesia Waters  -  AAFL Bioflux, 2019, Vol. 12, Issue 5, 1844-9166  <a href="http://www.bioflux.com.ro/docs/2019.1771-1778.pdf">http://www.bioflux.com.ro/docs/2019.1771-1778.pdf</a></p>
	<p>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Vivi Endar Herawati, Seto Windarto  The Effects of <i>Saccharomyces cerevisiae</i>-Enriched Diet on Feed Usage Efficiency, Growth Performance and Survival Rate in Java barb (<i>Barbonymus gonionotus</i>) Fingerlings  -  AAFL Bioflux, 2019, Vol. 12, Issue 5, 1844-9166  <a href="http://www.bioflux.com.ro/docs/2019.1841-1849.pdf">http://www.bioflux.com.ro/docs/2019.1841-1849.pdf</a></p>
	<p>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Seto Windarto  The Effects of Papain Enzyme-Enriched Diet on Protease Enzyme Activities, Feed Efficiency, and Growth of Fingerlings of Sangkuriang Catfish (<i>Clarias gariepinus</i>) Reared in Tarpaulin Pool  -  AAFL Bioflux, 2019, Vol. 12, Issue 6, 1844-9166  <a href="http://bioflux.com.ro/docs/2019.2177-2187.pdf">http://bioflux.com.ro/docs/2019.2177-2187.pdf</a></p>
	<p>Diana Rachmawati, Johannes Hutabarat, Istiyanto Samidjan, Seto Windarto  Utilization of Papain as Feed Additive in the Fish Feed on Activity of Digestive Enzymes, Contents of Nutrient and</p>

	<p>Minerals of Sangkuriang Catfish (<i>Clarias gariepinus</i> var. Sangkuriang)</p> <p>-</p> <p>AAFL Bioflux, 2020, Vol. 13, Issue 5, 2738-2744</p> <p><a href="http://www.bioflux.com.ro/docs/2020.2738-2744.pdf">http://www.bioflux.com.ro/docs/2020.2738-2744.pdf</a></p>
	<p>Pinandoyo, Dicky Harwanto, Seto Windarto, Vivi Endar Herawati</p> <p>The Effect of Addition Tyroxin Hormone on Growth and the Survival Rate of Giant Prawn <i>Macrobrachium rosenbergii</i></p> <p>-</p> <p>International Journal of Fisheries and Aquatic Studies, 2020, Vol. 8, Issue 6, 84-87</p> <p><a href="https://www.fisheriesjournal.com/archives/2020/vol8issue6/PartB/8-6-5-845.pdf">https://www.fisheriesjournal.com/archives/2020/vol8issue6/PartB/8-6-5-845.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, T. S. Darmanto, Johannes Hutabarat, Seto Windarto, Nurmanita Rismaningsih, Ocky Karna Radjasa</p> <p>Fermented Black Soldier Fly (<i>Hermetia illucens</i>) Meal Utilization in Artificial Feed for Carp (<i>Cyprinus carpio</i>)</p> <p>-</p> <p>AAFL Bioflux, 2020, Vol. 13, Issue 2</p> <p><a href="http://www.bioflux.com.ro/docs/2020.1038-1047.pdf">http://www.bioflux.com.ro/docs/2020.1038-1047.pdf</a></p>
	<p>Vivi Endar Herawati, Ahmad Fuad, Pinandoyo, Johannes Hutabarat, Y. S. Darmanto, Anindya Wirasatriya, Denny Nugroho, Nurmanita Rismaningsih, Ocky Karna Radjasa</p> <p>Maggot Meal (<i>Hermetia illucens</i>) Substitution on Fish Meal to Growth Performance, and Nutrient Content of Milkfish (<i>Chanos chanos</i>)</p> <p>-</p> <p>Hayati Journal of Bioscience, 2020, Vol. 27, Issue 2</p> <p><a href="https://journal.ipb.ac.id/index.php/hayati/article/view/31499/20075">https://journal.ipb.ac.id/index.php/hayati/article/view/31499/20075</a></p>



	<p>Dicky Harwanto, Pandu Saputro, Titik Susilowati, Alfabetian Harjuno Condro Haditomo, Seto Windarto</p> <p>Effect of different N:P ratios application on the cultivation media for the growth and fiber content of <i>Caulerpa racemosa</i> reared in tarpaulin ponds</p> <p>-</p> <p>AAFL Bioflux, 2020, Vol. 13, Issue 5</p> <p><a href="http://www.bioflux.com.ro/docs/2020.3117-3125.pdf">http://www.bioflux.com.ro/docs/2020.3117-3125.pdf</a></p>
	<p>Pinandoyo, Vivi E. Herawati, Johannes Hutabarat, Seto Windarto</p> <p>Application of Indian Nettle (<i>Acalypha indica</i>) and Mung Bean Sprouts (<i>Vigna radiata</i>) as a Source of Plant Protein to Improve Gourami (<i>Osphronemus goramy</i>) Production</p> <p>-</p> <p>AAFL Bioflux, 2021, Vol. 14, Issue 1, 141-150</p> <p><a href="http://bioflux.com.ro/docs/2021.141-150.pdf">http://bioflux.com.ro/docs/2021.141-150.pdf</a></p>
	<p>Vivi Endar Herawati, Pinandoyo, Restiana Wisnu Ariyati, Nurmanita Rismaningsih, Seto Windarto, Slametbudi Prayitno, Y.S. Darmanto , Ocky Karna Radjasa</p> <p>Effects of <i>Caulerpa lentillifera</i> added into culture media on the growth and nutritional values of <i>Phronima pacifica</i>, a natural fish-feed crustacean</p> <p>-</p> <p>BIODIVERSITAS, 2021, Vol. 22, Issue 1</p> <p><a href="https://smujo.com/biodiv/article/view/7136/4532">https://smujo.com/biodiv/article/view/7136/4532</a></p>
	<p>Seto Windarto, Angga Hendra Prastiwahyudi, Titik Susilowati, Alfabetian H. Condro Haditomo, Dicky Harwanto</p> <p>Effect of Different Substrates on Growth and Protein Content of <i>Caulerpa Racemosa</i></p> <p>-</p> <p>Journal of Hunan University Natural Sciences, 2021, Vol. 48, Issue 7</p> <p><a href="http://jonuns.com/index.php/journal/article/view/648/644">http://jonuns.com/index.php/journal/article/view/648/644</a></p>

Activities in specialist bodies over the last 5 years	-

## Staff Handbook (Rosa Amalia, S.Pi., M.Si.)

Name	Rosa Amalia, S.Pi., M.Si.		
Post	Aquaculture		
Academic career	<i>Magister (Coastal Resource Management)</i>	Diponegoro University	2013 – 2015
	<i>Undergraduate degree (Aquaculture)</i>	Diponegoro University	2009 – 2013
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2019 - now
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>BUDIDAYA TERINTEGRASI DAN ADAPTIF MENGGUNAKAN RUMPUT LAUT (Gracilaria sp.) dan Kerang Darah (Anadara granosa) DALAM OPTIMALISASI BUDIDAYA TAMBAK RAMAH LINGKUNGAN</i></li> <li>2. <i>PRODUKSI DAN KUALITAS RUMPUT LAUT Gracilaria sp. DARI SELEKSI BENIH DAN METODE TANAM YANG BERBEDA</i></li> </ol> <ol style="list-style-type: none"> <li>1. Rp. 20.000.000,00</li> <li>2. Rp. 40.000.000,00</li> </ol>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 2</i></p> <p><b>Sarjito, Slamet Budi Prayitno, Nida QolbiSalmaRochani, Alfabetian HerjunoCondro Haditomo, Rosa Amalia, Desrina</b></p> <p><i>POTENSI EPIBIOTIK CAMPURAN EKSTRAK DAUN BINAHONG (Anredera cordifolia) DAN TEMULAWAK (Curcuma zanthorrhiza) PADA PAKAN UNTUK MENGATASI INFEKSI Aeromonas hydrophila PADA IKAN LELE (Clarias gariepinus)</i></p> <p>-</p> <p><i>Saintek Perikanan: Indonesian Journal of Fisheries Science and Technology, April 2020, Vol. 16No.1: 51-58</i></p> <p><a href="https://ejournal.undip.ac.id/index.php/saintek/article/view/29018/17065">https://ejournal.undip.ac.id/index.php/saintek/article/view/29018/17065</a></p>		
	<p><b>Rosa Amalia, Diah Ayuningrum, Agus Sabdono, and Ocky</b></p>		

	<p><b>Karna Radjasa</b></p> <p><i>Antipathogenic Activity of Acroporid Bacterial Symbionts Against Brown Band Disease-Associated Bacteria</i></p> <p><i>Squalen Bull. Mar. Fish. Postharvest Biotech. (2021) 16(2): 67-74</i></p> <p><a href="https://www.bbp4b.litbang.kkp.go.id/squalen-bulletin/index.php/squalen/article/view/536/pdf">https://www.bbp4b.litbang.kkp.go.id/squalen-bulletin/index.php/squalen/article/view/536/pdf</a></p>
Activities in specialist bodies over the last 5 years	

### Staff Handbook (Dewi Nurhayati, S.Pi., M.Si.)

Name	Dewi Nurhayati, S.Pi., M.Si.		
Post	Aquaculture		
Academic career	<i>Magister (Aquaculture)</i>	Bogor Agricultural Institute	2011 – 2014
	<i>Undergraduate degree (Aquaculture Management Technology)</i>	Bogor Agricultural Institute	2005 – 2010
Employment	Lecturer at Fisheries and Marine Science Faculty	Diponegoro University	2020 - now
Research and development projects over the last 5 years	<p>Kinerja Berbagai Media Biofilter Terhadap Kualitas Air Dan Pertumbuhan Ikan Baung (<i>Mystus Nemurus</i>) dalam Sistem Akuakultur Resirkulasi</p> <p>1 year</p> <p>Pertner :- Dicky Harwanto, S.Pi., M.Sc. Ph.D.</p> <p>- Seto Windarto, S.Pi., M.Sc. M.P..</p> <p>Rp. 30.000.000</p>		

Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p>Selected recent publications from a total of approx. (4):</p> <p>Dietary Synbiotic Influence on the Growth Performances and Immune Responses to Co-Infection with Infectious Myonecrosis Virus and <i>Vibrio harveyi</i> in <i>Litopenaeus vannamei</i></p> <p>Journal of Fisheries and Aquatic Science, Volume 10, Number 1, 13-23, 2015</p> <p>ISSN: 1816-4927/ DOI: 10.3923/jfas.2015.13.23</p> <p><a href="https://scialert.net/archivedetails.php?issn=1816-4927&amp;issueno=55">https://scialert.net/archivedetails.php?issn=1816-4927&amp;issueno=55</a></p> <p>Ardiansyah Khoirur Rahman, Pinandoyo, Sri Hastuti, and Dewi Nurhayati,</p> <p>„Pengaruh Tepung Spirulina sp. Pada Pakan terhadap Performa Warna Ikan Mas Koki (<i>Carassius auratus</i>),“</p> <p><i>[Effect of Spirulina sp. Flour on Feed on Color Performance of Goldfish (Carassius auratus)]</i></p> <p>-</p> <p>Sains Akuakultur Tropis : Indonesian Journal of Tropical Aquaculture, vol. 5, no. 2, pp. 116- 127, Oct. 2021.</p> <p><a href="https://ejournal2.undip.ac.id/index.php/sat/article/view/10759">https://ejournal2.undip.ac.id/index.php/sat/article/view/10759</a></p>

	<p>Wildah Faizati, Sri Hastuti, Ristiawan Agung Nugroho, Tristiana Yuniarti, Fajar Basuki, and Dewi Nurhayati</p> <p>The Effects of Stocking Density on Growth and Survival rate of Baung (<i>Hemibagrus nemurus</i>)</p> <p>Sains Akuakultur Tropis : Indonesian Journal of Tropical Aquaculture, vol. 5, no. 2, pp. 136-146, Oct. 2021.  <a href="https://ejournal2.undip.ac.id/index.php/sat/article/view/3561">https://ejournal2.undip.ac.id/index.php/sat/article/view/3561</a></p> <hr/> <p>Diana Rachmawati, Istiyanto Samidjan, Dewi Nurhayati</p> <p>Pengaruh Penambahan <i>Saccharomyces Cerevisiae</i> Pada Pakan Komersial Terhadap Performan Benih Ikan Baung (<i>Hemibagrus Nemurus</i>)</p> <p><i>[Effect of Addition of Saccharomyces Cerevisiae to Commercial Feed on the Performance of Baung Fish (Hemibagrus Nemurus) Seeds]</i></p> <p>PENA Akuatika Scientific Journal of Fisheries and Marine, Vol. 20, No.2, pp. 35-45, Sept. 2021  <a href="https://jurnal.unikal.ac.id/index.php/akuatika/article/view/1546">https://jurnal.unikal.ac.id/index.php/akuatika/article/view/1546</a></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>