

Profil Dosen Program Studi S1 Biologi
Jurusan Biologi FMIPA Universitas Mulawarman
Tahun 2023



Informasi Umum

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Riwayat Pendidikan

No	Jenjang	Perguruan Tinggi	Jurusan/Program Studi	Tahun Lulus
1.	S1	Universitas Atma Jaya Yogyakarta	Biologi	1997
2.	S2	Universitas Gadjah Mada	Biologi	2001
3.	S3	Curtin University	Environment and Agriculture	2014

Bidang Penelitian/Hibah Penelitian (Tahun 2020, 2021, 2022, 2023)

No	Tema Penelitian	Judul Penelitian	Tahun
1.	Pangan	Toksisitas Akut dan Subkronik Ekstrak Etanol Daun Tabat Barito (<i>Ficus deltoidea</i> Jack) dan Efeknya Terhadap Sistem Reproduksi Mencit Jantan (<i>Mus musculus</i> L)	2020
2.	Kesehatan	Ekstrak Beberapa Tumbuhan Tropis Kalimantan Timur Sebagai Bahan Pembuatan Nanopartikel	2021

3.	Energi	Perak (AgNPs) Dan Uji Kemampuan Sebagai Antibakteri, Sitotoksik Dan Penyembuh Luka Produksi Bio-Jet Fuel/Jet Fuel Additives dari <i>Botryococcus braunii</i> : Studi kinetika, pirolisis dan catalytic upgrading	2021/2022/2023
4.	Pangan	Partial and Complete Replacement of Fish Meal By Black Soldier Fly (<i>Hermetia illucens</i>) Larvae For Juvenile Nile Tilapia (<i>Oreochromis niloticus</i>)	2021
5.	Pangan	Pilot Proyek Budidaya Maggot Di PT Berkah Salama Jaya, Sentra Penggemukan Sapi, Loa Janan Kutai Kertanegara	2022
6.	Pangan	Sumber Minyak Alternatif Pengganti Minyak Ikan Dari Minyak Maggot Yang Ditumbuhkan Pada Media Limbah Kelapa Sawit Bersuplemen Fruktosa (Tahun ke-1)	2022
7.	Kesehatan	Anti-Angiogenik Nanopartikel Daun Tabat Barito (<i>Ficus deltoidea</i> Jack) Pada Membran Korio Alantois Embrio Ayam Diinduksi Basic Fibroblast Growth Factor (Bfgf) (Tahun ke-1)	2022 2023
8.	Pangan	Sumber Minyak Alternatif Pengganti Minyak Ikan Dari Minyak Maggot Yang Ditumbuhkan Pada Media Limbah Kelapa Sawit Bersuplemen Fruktosa (Tahun Ke-2)	2023
9.	Kesehatan	Anti-Angiogenik Nanopartikel Daun Tabat Barito (<i>Ficus deltoidea</i> Jack) Pada Membran Korio Alantois Embrio Ayam Diinduksi Basic Fibroblast Growth Factor (Bfgf) (Tahun ke-2)	

Publikasi Ilmiah 5 Tahun Terakhir

No	Judul	Tahun
1	Hetty Manurung, Imam Rosadi, Dwi Susanto , Muhammad Fauzi Arif, Retno Aryani, Rudy Agung Nugroho. 2023. Antibacterial activity of leaves methanolic extract of Tanikkara (<i>Dillenia excelsa</i> (Jack) Martelli ex Gilg) against <i>Salmonella typhi</i> , <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> and <i>Bacillus cereus</i> . International Journal of Bioscience. 23(3): 185-192	2023
2	Ariyanto, F., Nugroho, R.A. , Aryani, R., Manurung, H. and Rudianto, R., 2023. Effect of Water Hyacinth Leaf Flour (<i>Eichhornia crassipes</i>) Fermented by <i>Aspergillus niger</i> on the Growth, Survival Rate and Blood Profile of Sangkuriang Catfish (<i>Clarias gariepinus</i>). Aceh Journal of Animal Science, 8(2), pp.52-57.	
3	Hardi, E.H., Halim, A.M., Nugroho, R.A. , Mawardi, M., Isnansetyo, A., Lusiastuti, A.M., Rahayu, W., Niklani, A. and Saptiani, G., 2023. Pathogenicity test bacteria from <i>Oreochromis niloticus</i> and <i>Clarias gariepinus</i> aquaculture ponds. Jurnal Akuakultur Indonesia, 22(1), pp.97-105.	

- 4 Sari, Y.P., Suchi, A.Q. and **Nugroho, R.A.**, 2023. Biosynthesis and Characterization of Silver Nanoparticles using Single Garlic Callus Extract (*Allium sativum* L.). Malaysian Journal of Fundamental and Applied Sciences, 19(4), pp.563-572.
- 5 Irwanto, M., Panggabean, P. and **Nugroho, R.A.**, 2023. Limbah Batang Pisang (*Musa Paradisiaca*) Sebagai Adsorben H₂s Di Ruang Terbatas Dengan Menggunakan Aktivasi Koh Dan Karakterisasi FTIR (Fourier Transform Infra-Red). Jurnal Review Pendidikan dan Pengajaran (JRPP), 6(4), pp.626-632.
- 6 Aryani, R., **Nugroho, R.A.**, Manurung, H., Sanjaya, A., Suprihanto, D., Sari, W., Sari, Y., Rudianto, R., Prahastika, W., Fadila, N. and Toimsar, I., 2023. Pengenalan Budidaya Maggot Pada Peternak Sapi Di Desa Summersari, Loa Kulu Kutai Kartanegara, Kalimantan Timur. Jurnal Abditani, 6(2), pp.144-148.
- 7 **Nugroho, R. A.**, Aryani, R., Hardi, E. H., Manurung, H., Rudianto, R., Wirawan, N. A., & Jati, W. N. (2023). Nutritive value, material reduction, biomass conversion rate, and survival of black soldier fly larvae reared on palm kernel meal supplemented with fish pellets and fructose. International Journal of Tropical Insect Science, 1-12.
- 8 Santoso, A. D., Handayani, T., **Nugroho, R. A.**, Yanuar, A. I., Nadirah, N., Rohaeni, E. S., & Widiarta, G. D. (2023). Sustainability index analysis of the black soldier fly (*Hermetia illucens*) cultivation from food waste substrate. Global Journal of Environmental Science and Management, 9(4), 851-870.
- 9 Aryani, R., **Nugroho, R. A.**, Manurung, H., Rulimada, M. H., Maytari, E., Siahaan, A., & Jati, W. N. (2023). Anti-angiogenic activity of *Ficus deltoidea* L. Jack silver nanoparticles using chorioallantoic membrane assay. F1000Research, 12, 544.
- 10 Subagyo, R. D. J., Putri, S. A., Manawan, M., Mollah, M., **Nugroho, R. A.**, & Gunawan, R. (2023). Catalytic Pyrolysis of the Green Microalgae *Botryococcus braunii* over Ni/SBA-15 Prepared by the Ultrasonic-Assisted Sol-Gel Method. ACS omega, 8(9), 8582-8595.

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- 11 **Nugroho, R.**, Aryani, R., Manurung, H., Anindita, D. F., Hidayati, F. S. N., Prahastika, W., & Rudianto, R. (2022). Effects of the Ethanol Extracts of *Ficus deltoidea* leaves on the Reproductive Parameters in Male Mice. Open Access Macedonian Journal of Medical Sciences, 10(A), 146-152.
- 12 Romano, N., Sinha, A. K., Fischer, H., **Nugroho, R. A.**, Powell, A., & Yamamoto, F. Y. (2022). Pregelatinized starch improves growth and mitigates adverse liver/intestinal histomorphology in largemouth bass, *Micropterus salmoides*, juveniles. Animal Feed Science and Technology, 115381.

- 13 Kawamura, K., Nishikawa, S., Hirano, K., Ardianor, A., & **Nugroho, R. A.** (2022). BoCAPS: Rapid screening of chemical races in *Botryococcus braunii* with direct PCRCAPS. *Algal Research*, 66, 102789.
- 14 Zulfahmi, I., Audila, A., Sari, A. N., Nur, F. M., **Nugroho, R. A.**, & Hasri, I. (2022). Anchovies (*Stolephorus* sp.) By-product Material as a Fish-feed Ingredient of Seurukan Fish (*Osteochilus vittatus*): Effect on Growth Performance and Gut Morphology. *Journal of Aquaculture and Fish Health*, 11(2), 255-268.
- 15 Hardi, E.H., **Nugroho, R.A.**, Rostika, R., Mardiyaha, C.M., Sukarti, K., Rahayu, W., Supriansyah, A. and Saptiani, G., (2022). Synbiotic application to enhance growth, immune system, and disease resistance toward bacterial infection in catfish (*Clarias gariepinus*). *Aquaculture*, 549, p.737794.
- 16 **Nugroho, R.A.**, Aryani, R., Manurung, H., Sari, Y.P. and Rudianto, R., (2022). Myrmecodia pendens Bulb Extract in the Lele Dumbo (*Clarias gariepinus*) Feed: Effects on the Growth Performance, Survival, and Blood Indices. *Journal of Aquaculture and Fish Health*, 11(1), pp.21-36.
- 17 Hardi, E.H., **Nugroho, R.A.**, Abinawanto, A., Fujaya, Y., Murtiyoso, B., Winanto, T. and Nurhidayat, N., (2021). Antiparasitic Activity of Single *Solanum ferox* Extract and Concoction with *Zingiber zerumbet* and *Boesenbergia pandurata* Extracts to Control Argulus sp. on Goldfish (*Cyprinus carpio*). Preprint.org

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- 18 Manullang, J.R., **Nugroho, R.A.**, Rohmah, M., Rudianto, R. And Qorysuchi, A., 2021. Plantextract-mediated biosynthesis of silver nanoparticles using Eleutherine americana bulb extract and its characterization. *Nusantara Bioscience*, 13(2).
- 19 Subagyono, R.D.J.N., Masdalifa, W., Aminah, S., **Nugroho, R.A.**, Mollah, M., Londong Allo, V. and Gunawan, R., 2021. Kinetic Study of Copyrolysis of the Green Microalgae *Botryococcus braunii* and Victorian Brown Coal by Thermogravimetric Analysis. *ACS omega*, 6(47), pp.32032-32042.
- 20 Hardi, E.H., Saptiani, G. and **Nugroho, R.A.**, 2021. *Boesenbergia pandurata* application in Goldfish (*Cyprinus carpio*) Feed to Enhancing Fish Growth, Immunity System, and Resistance to Bacterial Infection. *F1000Research*, 10.
- 21 Kawamura, K., Nishikawa, S., Hirano, K., Ardianor, A., **Nugroho, R. A.**, & Okada, S. (2021). Large scale screening of natural genetic resource in the hydrocarbon-producing microalga *Botryococcus braunii* identified novel fast-growing strains. *Scientific reports*, 11(1), 1-13.
- 22 Sam, K. K., Lau, N. S., Shu-Chien, A. C., Muchlisin, Z. A., & **Nugroho, R. A.** (2021). Complete Mitochondrial Genomes of *Paedocypris micromegethes* and *Paedocypris carbunculus* Reveal Conserved

- Gene Order and Phylogenetic Relationships of Miniaturized Cyprinids. *Front. Ecol. Evol.* 9: 662501. doi: 10.3389/fevo.
- 23 **Nugroho, R. A.**, Hindryawati, N., Aryani, R., Manurung, H., Sari, Y. P., Nurti, D. D., ... & Zahida, F. (2021, April). Biosynthesis of silver nanoparticles from aqueous extract of *Myrmecodia pendans* bulb. In *AIP Conference Proceedings* (Vol. 2331, No. 1, p. 050014). AIP Publishing LLC.
 - 24 Dastin, I. L., **Nugroho, R. A.**, Hariani, N., Aryani, R., Manurung, H., & Rudianto, R. (2021). Prevalence, intensity, and dominance of ectoparasites in gourami (*Osphronemus goramy*) reared in floating net cage in Cirata Reservoir, West Java, Indonesia. *Aceh Journal of Animal Science*, 6(1), 2732.
- 2020**
- 25 S Paramita, A Rahmadi, R Isnwardana, **RA Nugroho**. One-month Progress of COVID-19 Cases in East Kalimantan, Indonesia. Open Access Macedonian Journal of Medical Sciences 8 (T1), 45-50
 - 26 **RA Nugroho**, RRDJN Subagyono, ET Arung. Isolation and characterization of *Botryococcus braunii* from a freshwater environment in Tenggara, Kutai Kartanegara, Indonesia. Biodiversitas Journal of Biological Diversity 21 (5) 2020
 - 27 **RA Nugroho**, R Aryani, H Manurung, R Rudianto, W Prahastika, A Juwita, Acute and Subchronic Toxicity Study of the Ethanol Extracts from *Ficus deltoidea* Leaves in Male Mice. Open Access Macedonian Journal of Medical Sciences 8 (A), 76-83
 - 28 L Neneng, **RA Nugroho**, Y Komai, N Takayama, K Kawamura. Water Quality Measurements with a Simple Molecular Analysis (PCR-RFLP) of the Microbiome in a Metropolitan River System in Japan. Walailak Journal of Science and Technology (WJST) 17 (3), 257-268. 2020
 - 29 R Aryani, **RA Nugroho**, H Manurung, R Mardayanti, W Prahastika *Ficus deltoidea* leaves methanol extract promote wound healing activity in mice. EurAsian Journal of BioSciences 14 (1), 8591

Jabatan Formal akademik dan Organisasi Profesi (Tahun Sekarang)

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