

## DAFTAR PUSTAKA

- Abel, P D. 1974. *Toxicity of Synthetic Detergents to Fish and Aquatic Invertebrates*. *J. Fish Biol*, 279–98.
- Abida, Farahsani Umi, Parvez Alam, and Bambang Retnoaji. 2021. *Detergents Effect on Egg Hatchability , Morphometry and Larval Bone Structure of Native Indonesian Fish : Wader Pari (Rasbora Lateristriata Bleeker , 1854)*. *E3S Web of Conferences* 226, 00016 (2021) ICoN BEAT 2019 00016: 1–8. <https://doi.org/https://doi.org/10.1051/e3sconf/202122600016>.
- Agatha, Fani Savitri, Mas Bayu Syamsunarno, and Muh Herjayanto. 2021. *Jurnal Biologi Tropis Early Study on Embryogenesis O . Woworae at Different Salinities*. *Jurnal Biologi Tropis* 21 (2): 343–52. <https://doi.org/http://dx.doi.org/10.29303/jbt.v21i2.2574>.
- Annur, Madinawati, Septina F., Mangitung, and Rusaini. 2016. *Embriogenesis Ikan Cupang (Betta Splendens) The Embryogenesis Of Siamese Fighting Fish(Betta Splendens)*. *J. Agrisains* 17 (3): 137–40.
- Ansori, M. Radinal. 2020. *Perbandingan Uji Toksisitas Akut Sediaan Self Nanoemulsifying Drug Delivery System (SNEDDS) Denga Ekstrak Etanol Daun Pegagan Pada Embrio Ikan Zebra (Danio Rerio)*. Universitas Islam Indonesia.
- Ardhardiansyah, Ujang Subhan, and Ayi Yustiati. 2017. *Embriogenesis Dan Karakteristik Larva Persilangan Ikan Patin Siam (Pangasius Hypophthalmus) Jantann Denga Ikan Baung (Hemibagrus Nemurus) Betina*. *Jurnal Perikanan Dan Kelautan VIII* (2): 17–27.
- Ariska, Risma, Henky Irawan, and Tri Yulianto. 2018. *Pengaruh Perbedaan Suhu Terhadap Laju Penyerapan Kuning Telur Larva Ikan Bawal Bintang (Trachinotus Blochii)*. *Jurnal Intek Akuakultur* 2 (2): 13–24.
- Berger, Anja. 2010. *Molecular Analysis of the Oryzias Latipes (Medaka) Transcriptome*. Universitas Berlin.
- Bik, Ewelina, Mika Ishigaki, Aneta Blat, Agnieszka Jaształ, Yukihiro Ozaki, Kamilla Malek, and Malgorzata Baranska. 2020. *Lipid Droplet Composition Varies Based on Medaka Fish Eggs Development as Revealed by NIR-, MIR-, and Raman Imaging*, 1–15. <https://doi.org/doi:10.3390/molecules25040817>.
- Burhanuddin, A. I. 2008. *Ikhtologi*. Makassar: Yayasan Citra Emulsi, 332 Hal
- Budiawan, Yuni Fatisa, and Neera Khairani. 2009. *Optimasi Biodegradabilitas Dan Uji Toksisitas Hasil Degradasi Surfaktan Linear AlkilBenzena Sulfonat (LAS) Sebagai Bahan Detergen Pembersih*. *Jurnal Makara, Sains* 13 (2): 125–33.
- Cong, Yi, Fei Jin, Juying Wang, and Jingli Mu. 2017. *The Embryotoxicity of ZnO Nanoparticles to Marine Medaka, Oryzias Melastigma*. *Aquatic Toxicology*. <https://doi.org/10.1016/j.aquatox.2017.01.006>.
- Daharuddin, Hadi. 2012. "Ikan Padi (Oryzias Sp) Dari Sulawesi." *Fauna Indonesia* 11 (2): 28–32.
- Dharma, Tony Setia. 2015. *Perkembangan Embrio Dan Penyerapan Nutrisi Endogen Pada Larva Dari Pemijahan Secara Alami Induk Hasil Budidaya Ikan Bawal Laut, Trachinotus Blochii, Lac*. *Jurnal Ilmu & Teknologi KelautanTropis* 7 (1): 83–90.
- Dwi, Ni G A M, Adhi Suastuti, I Wayan Suarsa, and Kurnia Putra. 2015. *Pengolahan Larutan Detergen Dengan Biofilter Tanaman Kangkung (Ipomoea Crassicaulis) Dalam Batch (Curah) Teraerasi"* 9 (1): 98–104.

- Fahmi, Melita Rini, Anjang Bangun Prasetyo, and Ruby Vidiakusuma. 2008. "Potensi Ikan Medaka (*Oryzias Woworae*, *O. Javanicus* Dan *O. Profundicola*) Sebagai Ikan Hias Dan Ikan Model," 227–33.
- Farida, Rachimi, and Adrianus. 2016. Penetasan Dan Kelangsungan Hidup Larva Ikan Biawan (*Helostoma Temmincki*)." *Jurnal Ruaya* vol. 4 (2): 63–69.
- Furutani-seiki, Makoto, and Joachim Wittbrodt. 2004. *Medaka and Zebrafish, an Evolutionary Twin Study* 121: 629–37. <https://doi.org/10.1016/j.mod.2004.05.010>.
- Gonza, Miguel, Eduardo de la Pena, Carmen Barrueco, and David E. Hinton. 2003. *Stage Sensiti of Medaka (Oryzias Latipes) Eggs and Embryos to Permethrin. Aquatic Toxicology* 62: 255–68.
- González-Doncel, Miguel, M. S. Okihiro, S. A. Villalobos, D. E. Hinton, and J. V. Tarazona. 2005. *A Quick Reference Guide to the Normal Development of Oryzias Latipes (Teleostei, Adrianichthyidae). Journal of Applied Ichthyology* 21 (1): 39–52. <https://doi.org/10.1111/j.1439-0426.2004.00615.x>.
- Handayani, Leni. 2017. Pengaruh Kandungan Detergen pada Limbah Rumah Tangga Terhadap Kelangsungan Hidup Udang Galah (*Macrobracium Rosenbergii*). *Jurnal Sebatik*, 75–80.
- Hardini, Dwi Cindanita, Yayat Dhahiyat, and Afrianto Eddy. 2012. Pengaruh Konsentrasi Pemaparan Surfaktan *Alkyl Benzene Sulfonate* Terhadap Toksisitas Dan Kerusakan Jaringan Ikan Nila. *Jurnal Perikanan Dan Kelautan* 3 (1): 59–63.
- Hasanah, Sharifuddin Bin Andy Omar, Joeharnani Tresnati, and M. Saleh Nurdin. 2019. Ukuran Pertamakali Matang Gonad Ikan Medaka Endemik Indonesia. *Jurnal Ilmiah Samudra Akuatika* III (2): 31–35.
- Herder, Fabian, Renny Kurnia Hadiaty, and Arne W Nolte. 2012. *Pelvi-Fin Brooding in a New Species of Riverine Ricefish (Atherinomorpha: Beloniformes: Adrianichthyidae) From Tanah Toraja, Central Sulawesi, Indonesia. The Raffles Bulletin of Zoology* 60 (2): 467–76.
- Herjayanto, Muh, Annisa Misykah Mauliddina, Esa Rama Widiyawan, Nugroho Agung Prasetyo, Lukman Anugrah Agung, and Abdul Gani. 2019. Studi Awal Pemeliharaan *Oryzias Sp.* Asal Pulau Tunda, Indonesia, Pada Kondisi Laboratorium. *Ejournal.Unmus.Ac.Id/Index.Php/Fish* 2 (1): 24–34. <https://doi.org/10.35724/mfmj.v2i1.1872>.
- Hidayat, Yuliya Mahdalena. 2016. Model Kematian Biota Air Sebagai Fungsi Waktu Kotak Pada Air Limbah Detergen Dan Gagasan Sederhana Pengendaliannya. *Jurnal Sumber Daya Air* 11 (2): 131–46.
- Ishigaki, Mika, Shoya Kawasaki, Daitaro Ishikawa, and Yukihiro Ozaki. 2015. *Near-Infrared Spectroscopy and Imaging Studies of Fertilized Fish Eggs: In Vivo Monitoring of Egg Growth at the Molecular Level. Nature Publishing Group*, no. July 2015: 1–10. <https://doi.org/10.1038/srep20066>.
- Iwamatsu, Takashi. 2004. *Stages of Normal Development in the Medaka Oryzias Latipes Q*" 121: 605–18. <https://doi.org/10.1016/j.mod.2004.03.012>.
- Iwamatsu, T. 2011. Developmental Stages in the Wild Medaka, *Oryzias Latipes*. *Bulletin of Aichi Univ. of Education*, 60, 71-81.
- Iwamatsu, Takashi, and Æ Tomokazu Muramatsu. 2008. *Oil Droplets and Yolk Spheres during Development of Medaka Embryos* 22: 344–48. <https://doi.org/10.1007/s10228-008-0048-z>.
- Jati, Galuh Diyajeng. 2020. Pengaruh Pemberian Detergen Dengan Dosis Yang Berbeda Terhadap Perkembangan Embrio, Abnormalitas Dan Daya Tetap Ikan

- Wader Cakul (*Puntius Binotatus*). [Skripsi]. Universitas Brawijaya.
- Khasanah, Uswatun, Laksmi Sulmartiwi, and Rr. Juni Triastuti. 2016. Embriogenesis Dan Daya Tetas Telur Ikan Komet (*Carassius Auratus Auratus*) Pada Suhu Yang Berbeda. *Journal of Aquaculture and Fish Health* 5 (3): 108–17.
- Kinoshita, Masato, Kenji Murata, Kiyoshi Naruse, and Minoru Tanaka. 2009. *Medaka: Medaka Biology, Management, and Experimental Protocols*. Wiley-Blackwell. p 445.
- Komariah, Anis, Sriatun, and Pardoyo. 2017. Adsorpsi Alkil Benzena Sulfonat Menggunakan Zeolit Termodifikasi *Cetyltrimethylammonium*. *Jurnal Kimia Sains Dan Aplikasi* 20 (1): 13–18.
- Lalombo, 2022. Kelangsungan Hidup Embrio Ikan *Oryzias celebensis* Yang Dipelihara Pada Media Berbeda Dalam Upaya Menyediakan Embrio Uji Ekotoksikologi. [Skripsi]. Universitas Hasanuddin.
- Magtoon, Wichian, and Aphichart Termvidchakorn. 2009. *A Revised Taxonomic Account of Ricefish Oryzias (Beloniformes; Adrianichthyidae), in Thailand, Indonesia and Japan*. *The Natural History Journal of Chulalong Korn Univ* 9 (1): 35–68.
- Mandagi, Ixchel f., Daniel F Mokodongan, Rieko Tanaka, and Kazunori Yamahira. 2018. *A New Riverine Ricefish of the Genus Oryzias (Beloniformes, Adrianichthyidae) from Malili, Central Sulawesi, Indonesia* 106 (2): 297–304. <https://doi.org/10.1643/CI-17-704>.
- Mokodongan, Daniel F, and Kazunori Yamahira. 2015. *Molecular Phylogenetics and Evolution Origin and Intra-Island Diversification of Sulawesi Endemic*. *Molecular Phylogenetics and Evolution* 30 (11): 1–10. <https://doi.org/10.1016/j.ympev.2015.07.024>.
- Murtdjo, B.A. 2001. 2001. Beberapa Metode Pembenihan Ikan Air Tawar. Yogyakarta: Kanisius. p. 107.
- Oxendine, Sharon L., John Cowden, David E. Hinton, and Stephanie Padilla. 2006. *Adapting the Medaka Embryo Assay to a High-Throughput Approach for Developmental Toxicity Testing*. *NeuroToxicology* 27 (5): 840–45. <https://doi.org/10.1016/j.neuro.2006.02.009>.
- Padilla, Stephanie, John Cowden, David E Hinton, Kevin Flynn, and Ronald C Hardman. 2015. *Use of Medaka in Toxicity Testing*. <https://doi.org/10.1002/0471140856.tx0110s39>.Use.
- Permata, Lubis Siti Devi. 2014. Uji Toksisitas Deterjen Cair Terhadap Benih Ikan Mas (*Cyprinus Carpio L.*). Sumatera Utara.
- Prahastuti, Maulina Septia, Churun Ain, and Bambang Sulardiono. 2013. Dampak Surfaktan Berbahan Aktif Na-ABS Terhadap Daya Tetas Telur Ikan Karper (*Cyprinus Carpio*) Dalam Skala Laboratorium. *Diponegoro Journal Of Maquares* 2 (4): 11–17.
- Purnamasari, Eti Nurpita. 2014. Karakteristik Kandungan *Linear Alkyl Benzene Sulfonat* (LAS) Pada Limbah Cair Laundry. *Jurnal Media Teknik* 11 (1): 32–36.
- Puspitasari, Rachma, and Suratno. 2017. Studi Awal Perkembangan Larva *Oryzias Javanicus* Di Indonesia. *Jurnal Ilmu Dan Teknologi Kelautan Tropis* 9 (1): 105–12.
- Putu, Gusti, Agus Ferry, Sutrisna Putra, I K Putra Juliantara, Ni Putu, and Dinda Setiawati. 2018. Uji Potensi Bakteri *Bacillus Cereus* Dalam Menurunkan Kadar *Linier Alkil Sulfonat*. *Jurnal Media Sains* 2 (September): 71–75.

- Rahardjo, M. F, Djadja S. Sjafei, Ridwan Affandi, and Sulistiono. 2011. *Iktiologi*. Bandung : Lubuk: Agung.p.396.
- Rahmawati. 2014. Pengaruh Pemberian Detergen Terhadap Daya Tetas Telur *Argulus Japonicus*. [Skripsi].Universitas Airlangga.
- Risnawati, Umar Muh. Ruslan Ruslan, and Andriani Irma. 2015. Distribusi Populasi Dan Ekologi Ikan Medaka *Oryzias Sp.* Di Perairan Sungai Maros, Kabupaten Sulawesi Selatan, 1–9.
- Rohmah Miftakhur, 2010. Studi Tentang Efektifitas Sistem Perendaman Enzim Tripsin Untuk Mempercepat Laju Penetasan Embrio Ikan Lele Dumbo (*Clarias sp.*). [Skripsi]. Universitas Brawijaya.
- Said, D. S. & Hidayat. 2015. *101 Ikan Hias Air Tawar*. Jakarta: LIPI Press, 260 hal.
- Said, Nusa Idaman, and Ruliasih Marsidi. 2004. Proses Aerasi Kontak Menggunakan Media Arang Kayu Untuk Mengurangi Detergen Dalam Air Baku. 5 (2): 96–102.
- Sari, D. K., Andriani, I., Yaqin, K. & Satya, A. M. 2018a. *The use of endemic Sulawesi medaka fish (Oryzias celebensis) as an animal model candidate*, pp. 564-565. In Proceedings of the 20th Federation of Asian Veterinary Associations Congress & The 15th Konferensi Ilmiah Veteriner Nasional PDHI, Bali, 1-3 November 2018. Universitas Hasanuddin, Makassar.
- Sari, D. K., Andriani, I. & Yaqin, K. 2018b. Histological study of the circulatory system of Sulawesi medaka fish (*Oryzias celebensis*) for animal model research. *Journal of Physics: Conference Series*. 1028(1): 1–5. doi: 10.1088/1742-6596/1028/1/012008.
- Setyono, Budi. 2009. Pengaruh Perbedaan Konsentrasi Bahan Pada Pengencer Sperma Ikan Skim Kuning Telur Terhadap Laju Fertilisasi, Laju Penetasan Dan Sintasan Ikan Mas (*Cyprinus Carpio L.*).” *GAMMA* 5 (1): 1–12.
- Sulistiawan, R. Selfi Nendris S.Pi, and S.Pi Rukoyah. 2014. Pengaruh Pemberian Lama Waktu Kehutan Suhu Terhadap Tingkat Keberhasilan Ginogenesis Ikan Koi (*Cyprinus Carpio*). *Jurnal Agrosience* 7 (Januari-Juni): 41–50.
- Suparjo Mustofa Niti. 2010. Kerusakan Jaringan Insang Ikan Nila (*Oreochromis Niloticus L*) Akibat Detergen.” *Jurnal Saintek Perikanan* 5 (2): 1–7.
- Supriono, E, L Lisnawati, and D Djokosetyanto. 2005. Pengaruh Linear *Alky Benzene Sulfonate* Terhadap Mortalitas, Daya Tetas Telur Dan Abnormalitas Larva Ikan Patin (*Pangasius Hypophthalmus Sauvage*).” *Jurnal Akuakultur Indonesia* 4 (1): 69–78.
- Shima, A & Mitani, H. 2004. Medaka as a research organism: Past, present and future. *Mechanisms of Development*. 121: 599-604. doi 10.1016/j.mod.2004.03.011
- Switarto, Bambang, and Sugito. 2012. Aplikasi Biofiltera Aerobik Untuk Menurunkan Kandungan Detergen Pada Air Limbah Laundry. *Jurnal Teknik Waktu* 10 (2): 23–31.
- Tang, Usman Muhammad, and Ridwan Affandi. 2000. *Biologi Reproduksi Ikan*. Pekanbaru: Pusat Penelitian Kawasan Pantai dan Perairan Universitas Riau.
- Tufik, Imam. 2006. Pencemaran Detergen Dalam Perairan Dan Dampaknya Terhadap Organisme Air. *Jurnal Meedia Akuakultur* 1 (1).
- Vignet, Caroline, Tiziana Cappello, Qiuguo Fu, Maria Maisano, Juliane Hollender, Kristin Schirmer, and Giuseppe De Marco. 2019. *Chemosphere Imidacloprid Induces Adverse Effects on Fi Sh Early Life Stages That Are More Severe in Japanese Medaka (Oryzias Latipes) than in Zebra Fi Sh (Danio Rerio) I E.* 225:

- 470–78. <https://doi.org/10.1016/j.chemosphere.2019.03.002>.
- Violita, Vina, Muslim, and Mirna Fitriani. 2019. Derajat Penetasan Dan Lama Waktu Menetas Embrio Ikan Betok (*Anabas Testudineus*) Yang Diinkubasi Pada Media Dengan PH Berbeda. *JIPK JURNAL* 11 (1): 21–27.
- Wang, Rui-fang, Li-mei Zhu, Jun Zhang, Xiao-ping An, Yan-ping Yang, and Min Song. 2020. *Chemosphere Developmental Toxicity of Copper in Marine Medaka (Oryzias Melastigma) Embryos and Larvae.* 247. <https://doi.org/10.1016/j.chemosphere.2020.125923>.
- Wittbrodt, J., Shima, A. & Scharl, M. 2002. *Medaka - A model organism from the Far East. Nature Reviews Genetics.* 3(1): 53–64. doi: 10.1038/nrg704.
- Yudasmar, Dr. Gede Ari. 2014. *Biologi Perikanan.* Yogyakarta. 108 Hal
- Yusof, Shahrizad, Ahmad Ismail, and Faid Rahman. 2013. *Distribution and Localities of Java Medaka Fish ( Oryzias Javanicus ) in Peninsular Malaysia. Malayan Nature Journal* 65 (2&3): 38–46.
- Zhu, Tianyu, Lang Gui, and Yefei Zhu. 2018. *Dnd Is Required for Primordial Germ Cell Speci Fi Cation in Oryzias Celebensis.* 679 (July): 36–43. <https://doi.org/10.1016/j.gene.2018.08.068>.