

## DAFTAR PUSTAKA

- Abraha, B., A. Mahmud, M. Samuel, W. Yhdego, S. Kibrom, dan W. Habtom. 2017. Production of fish protein hydrolysate from silver catfish (*Aurios thalassinus*). *MOJ Food Processing & Technology*. 5(4) : 328 – 335.
- Agustina. A., R. Karnila, dan M. Ilza. 2018. Pengaruh Konsentrasi Enzim Papain Berbeda terhadap Kandungan Asam Amino Total Hidrolisat Protein Belut (*Monopterus albus*). *Jurnal Fakultas Perikanan dan Kelautan, Universitas Riau*.
- Allen, U.S. 2018. *Monopterus albus* (Asian Swamp eel). <https://www.cabi.org/isc/datasheet/74114>. diakses tanggal 22 Februari 2020
- Amriand, E. dan F. Mamboya. 2012. Papain, a plant enzyme of biological importance : a review. *American Journal of Biochemistry an Biotechnology*. 8(2) : 99-104
- AOAC. 2000. Official Methods of Analysis 18<sup>th</sup> ed. Association of Official Analytical Chemists. Maryland. USA.
- Arisman. 2009. Keracunan Makanan : Buku Ajar Ilmu Gizi. Penerbit Buku Kedokteran EGC. Jakarta.
- Asih. N.N.K., P. Suarya, I.B.P. Manuaba, dan I.N. Wirajana. 2018. Hidrolisis batang jagung secara enzimatik dari tanah hutan mangrove. *Cakra Kimia*. 6(2) : 106 – 115.
- Atif, A.B., M.K. Zahri, A.R. Esa, B.A. Zilfalil, U.S.M. Rao, dan S. Nordin. 2015. Comparative analysis of the antibacterial, antifungal, antiproliferative and cyclic response element (cre) induced expressin of downstream luc gene activities of *Monopterus albus* and *Channa straitus* extracts. *Journal of Applied Pharmaceutical Science*. 5(1) : 42 – 47.
- Baharuddin, N.A., A.H.N. Ruhaya, dan N.M. Sarbon. 2016. Effect of degree of hydrolysis (dh) on the fuctional properties and angiotensin i-converting enzyme (ace) inhibitory activity of eel (*Monopterus albus*) protein hydrolysate. *International Food Research Journal* 23(4) ; 1424 – 1431.
- Balouri, M., M. Sadiki, dan S.K. Ibsouda. 2016. Method for in vitro evaluating antimicrobial activity : A review. *Journal Pharm. Analysis*. 6(2) : 71 – 79.
- Bashir, K.M.I., dan Man-Gi, Cho. 2016. The effect of kanamycin and tetracycline on growth and photosynthetic activity of two chlorophyte algae. *BioMed Research International*. 1- 8.
- Behling, A. R., dan S.L. Taylor. 1982. Bacterial histamine production as a fuction of temperature and time of incubation. *Journal of Food Science*. 47(4) : 1311 – 1314.

- Beveridge, A. J. 1996. A theoretical study of the active sites of papain and S195C rat trypsin: implications for the low reactivity of mutant serine proteinases. *Protein Science*. 5(7) : 1355–1365.
- Bhat, E.A., A. Mohnad, dan I.A. Rather. 2018. Key factor for successful protein purification and crystallization. *global journal of biotech. And Biomaterial Sci*. 4(1) : 1-7.
- Bintari, N. W. S., R. Kawuri, dan M.W. Proborini. 2015. Isolasi dan identifikasi bakteri penyebab busuk lunak pada umbi wortel (*Daucus carota* L.) variatas lokal di bali. *Jurnal Memorfosa II*. 2(1) : 9 – 15.
- Bougatef, H., F. Krichen, S. Kobbi, O. Martinez-Alvarez, N. Nedjar, A. Bautagef, dan A. Sila. 2018. Physicochemical and biological properties of eel by-products protein hydrolysates : potential application to meat product preservation. *Waste and Biomass Valorization*. 11(3) : 1 – 12.
- Buckle, Jane. 2016. *Clinical Aromatherapy Essential Oil in Healthcare : Thrid Edition*. Chrchill Livingstone, Elsevier Ltd. London.
- Cappelletti, M., M. Perazolli, A. Nesler, O. Giovanni, dan I. Pertot. 2017. The effect of hydrolysis and protein source on the efficacy of protein hydrolysates as plant resistance inducers against powdery mildew. *Journal Bioprocessing and Biotechniques*. 7(5) : 1 – 10.
- Cheng, I-Chun., Jin-Xian. Lio, Jhih-Ying, Cio, Li-Tung, Huang, Yu-Wei, Chen, dan Chih-Yao, Hou. 2020. Characterization of protein hydrolysates from eel (*Anguilla marmorata*) and their application in herbal eel extracts. *Journal Catalysts*. 1 – 15.
- Clemante. A. 2000. Enzymatic protein hydrolysates in human nutrition. *Trends Food Science and Technology*. 11(7) : 254 – 262.
- Colla, G., S. Nardi, M. Cardarelli, A. Ertani, L. Lucini, R. Canaguier, dan Y. Rouphael. 2015. Protein hydrolysates as biostimulants in horticulture. *Scientia Horticulture*. 196 : 28 – 38.
- Comas-Baste, O., Maria, M.L. Latorre-Molatarra, S. Sanchez-Perez, M.T.Veciena-Nogues, dan M. d. C. Vidal-Carou. 2019. Histamine and other biogenic amines in food. from scrombroid poisoning to histamine intolerance. *Licentech IntechOpen*. 1 – 19.
- Dityanawarman, A., I.D. Puspita, S.E. Ratnawati, N. Ekantari, dan M. Tamplin. 2020. growth rate and histamin production of *Klebsiella* sp. ck02 isolated from skipjack tuna compared with *Morganella morganii* atcc 25830 at various incubation tempetaures. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*. 15(1) : 1 – 9.
- Egra, S., M. Syamsi, M. Rofin, M. Adiwena, N. Jannah H. Kuspradini, dan D.T. Mitsunaga. 2019. Aktivitas antimikroba ekstrak bakau (*Rhizophora mucronata*) dalam

- menghambat pertumbuhan *Ralstonia solanacearum* penyebab penyakit layu. AGROVIGOR. 12(1) : 26 – 31.
- Egra, S., Maedhiana., Mut. R., Muhammad, A., Nur. J., Harlinda, K., dan Tohru, M. 2019. Aktivitas antimikroba ekstrak bakau (*Rhizophora mucronata*) dalam menghambat pertumbuhan *ralstonia solanacearum* penyebab penyakit layu. AGROVIGOR. 12(1) : 26 – 31.
- Elsson, M., A. Wijarnako, H. Hermansyah, dan M. Sahlan. 2019. Michaelis-menten parameters characterization of commercial papain enzyme “paya”. IOP Conference Earth Series : Earth and Environmental Science. A Paper.
- Elavarasan, K., V.N. Kumar, dan B.A. Shamasundar. 2014. Antioxidant properties of fph from freshwater carp (*Catla catla*) as influenced by the nature of enzyme. Journal of Food Process and Preservation. 38(3) : 1207 – 1214.
- Esau, L.J.L., R.G.C. Rodolfo, H.D. Melissa, C.C.C. Adriana, G.C. Rodolfo, dan F.C. Rafael. 2019. An alternative disk diffusion test in broth and macrodillution method for colistin susceptibility in *Enterobacteriales*. Journal of Microbiological Method. 167 : 1- 4.
- Fatuni, Y. S., R. Suwandi, dan A.M. Jaecob. 2014. Identifikasi kadar histamin dan bakteri pembentuk histamin dari pandang bandeng tingkol. JPHPI. 17(2) : 112-118.
- Food and Agriculture Organization [FAO]. 2012. Public Health Risks of Histamine and other Biogenic Amines from Fish and Fishery Products. FAO Headquarters. Italy.
- Fusco, V., H. Abriouel, J. Kabisch, D. Chieffi, G.S. Cho, dan C.M.A.P. Franz. 2018. Food Safety and Preservation : Chapter 10 – Opportunistic Food-Borne Pathogens. Academic Press. Amerika Serikat.
- Ghanbari. R., A. Ebrahimpour, A. Abdul-Hamid, A. Ismail, dan N. Saari. 2012. *Actinopyga lecanora* hydrolysates as natural antibacterial agents. International Journal of Molecular Sciences. 13 : 16796 - 16811
- Gillespie, S. H. 1994. Medical Microbiology Illustrated. Butterworth-Heinemann, Elsevier Ltd. London
- Gundogan. N. 2014. Klebsiella. Encyclopedia of Food Microbiology : Second Edition. Academic Press, Elsevier Ltd. Amsterdam.
- Halim, N.R.A., dan N.M. Sarbon. 2020. Characterization of asian swamp eel (*Monopterus* sp.) protein hydrolysate functional properties prepared using alcalase enzyme. Food Research. 4(1) : 207 – 215
- Haris, A., Arniati, dan S. Werorilangi. 2013. Uji Antibakteri patogen ekstrak sponge menggunakan metode highest throughput screening (hts) dengan indikator MTT (3-[4,5-

- dimethylthiazol2-yl]-2,5-diphenyltetrazolium bromide*). Universitas Hassanudin. Laporan Penelitian.
- Haslaniza, H., M.Y. Maskat, W.A.W. Mustapha, dan S. Mamot. 2010. The effect of enzyme concentration, temperature, and incubation time on nitrogen content and degree of hydrolysis of protein precipitate from cockle (*Anadara granosa*) meat waste water. *International Food Research Journal*. 17: 147 – 152.
- Hatmaningtyas, L. L. 2013. Faktor risiko kolonisasi *Klebsiella* sp. Pada Nasofaring Balita. *Jurnal Medika Muda*.
- Huang, H., Y. Li, J. Liang, dan F.D. Finkelman. 2018. Molecular regulation of histamine synthesis. *Frontiers in Immunology*. 9 : 1392 – 1398.
- Idowu, A. T., O. Igiehon, S. Idowu, O. Olatunde, dan S. Benjakul. 2021. Bioactivity potentials and general applications of fish protein hydrolysates. *International Journal of Peptide Research and Therapeutics*. 27 (109) : 109 – 118.
- Inguglia, L., M. Chiaramonte, V. D. Stefano, D. Schhillaci, G. Cammilleri, L. Pantano, M. Mauro, M. Vazzana, V. Ferrantelli, R. Nicolosi, dan V. Arizza. 2020. *Salmo solar* fish waste oil : fatty acids composition and antibacterial activity. 8 : 1 – 19.
- James. C., S. Derrick, G. Purnell, dan S.J. James. 2013. Review of the risk management practices employed throughout the fish processing chain in relation to controlling histamine formation in at-risk fish species. *food refrigeration & process engineering research centre*. Grimsby Institute. United Kingdom.
- Jamil, N. H., N. R. A. Halim, dan N. M. Sarbon. 2016. Optimization of enzymatic hydrolysis condition and functional properties of enzymatic hydrolysis condition and functional properties of eel (*Monopterus albus*) protein using response surface methodology (rsm). *International Food Research Journal*. 23 (1) : 1 – 9.
- Kantun, W., A.A. Malik, dan Harianti. 2015. Kelayakan limbah padat tuna loin madidihang tunnus albacares untuk bahan baku produk diversifikasi. *JPHPI*. 18(3) : 303 – 313.
- Kehinde, B. A., dan P. Sharma. 2018. Recently isolated antidiabetic hydrolysates and peptides from multiple food sources – a review. *Critical Reviews in Food Science and Nutrition*. 1 – 14.
- Kementerian Kelautan dan Perikanan RI. 2018. Total Produksi Ikan dengan Perbandingan Tahun. <https://statistik.kkp.go.id/home.php?m=total&i=2#panel-footer> diakses tanggal 10 Juli 2021
- Khoiriyah, Z. Z. 2019. Pemanfaatan Limbah Kepala Belut (*Monopterus albus*) sebagai Bahan Campuran Kopi (*Coffea arabica*). Universitas Sriwijaya. Skripsi.
- Kielkopf, C. L., W. Bauer, dan I.L. Urbatsch. 2020. Protocol : Bradford Assay for Determining Protein Concentration. *Cold Spring Harb Protoc*.

- Koolawadee, S., S. Tadakittisarn, H. Rimkeeree, S. Winichai, dan V. Haruthaithanasan. 2010. Optimization of rice barn protein hydrolysate production using alcalase. *Asian Journal of Food Agro-Industry*. 3(2) : 221 – 231.
- Korczek, K., J. Tkaczewska, dan M. Wladyslaw. 2018. Antioxidant and antihypersensitive protein hydrolysates in fish products – a review. *Czech Journal Food Science*. 36(3) : 13 – 25.
- Kuppulakshmi, C., M. Prakash, G. Gunasekaran, G. Manimegalai, dan S. Sarojini. 2008. Antibacterial properties of fish mucus from *Channa punctatus* and *Cirrhinus mrigala*. *Eur. Rev. Med. Pharmacol. Sci*. 12 (3) : 149 – 153.
- Kurniawan, S. Lestari, dan S. Hanggita. R. J. 2012. Hidrolisis protein tinta cumi-cumi (*Loligo* sp.) dengan enzim papain. *Fishtech*. 1 910 : 41 – 52.
- Kusumadjaja, A.P., dan R.P. Dewi. 2005. Penentuan kondisi tinggi enzim papain dari pepaya burung varietas jawa (*Carica papaya*). *Indo. J. Chem*. 5(2) : 147 – 151.
- Kwak, C.H., S.H. Lee, S.K. Lee, S.H. Ha, S.J. Suh, K.M. Kwon, T.W. Chung, K.T. Ha, C.Y. Chang, Y.C. Lee, D.S. Kim, H.W. Chang, dan C.H. Kim. 2015. Induction of apoptoosos and antitumor activity of eel skin mucucs, containing lactose-binding molecules, on human leukemic K562 cells. *Marine Drugs*. 13(6) : 3936 – 3949.
- Larranaga, M.D., R.J.Sr. Lewis, dan R.A. Lewis. 2016. *Hawley's Condensed Chemical Dictionary* 16<sup>th</sup> Edition. John Wiley & Sons, Inc. Haboken. p 796.
- Leni, G., Lise, S., Agusta, C., Stefano, S., dan Leen, B. 2020. Degree of hydrolysis affects the techno-functional properties of lesse mealworm protein hydrolysates. *Foods*. 9 (381) : 1 – 13.
- Lestari. P., dan Suyata. 2019. Antibacterial activity of hydrolysate protein from etawa goat milk hydrolysed crude extract bromelain. *IOP conference Series : Materials and Eengineering*. 500 : 1 – 11.
- Lin, Ming-Feng., Yun-You. Lin, dan Chung-Yu. Lan. 2014. Minimal inhibitory concentration (mic) assay for *Acinetobacter baumannii*. *Bio-protocol*. 4(23) : 1 – 4.
- Margareta, G., S.E. Ratnawati, I.D. Puspita. 2020. Growth rate and histamine production of *Citrobacter freundii* ck01 in various incubation temperatures. *E3S Web of Conferences* 147.
- Marti. M., B. Frigols, dan A. Serrano-Aroca. 2018. Antimicrobial characterization of advanced materials for bioengineering aplications. *Journal of Visualized Experiments*. 138 : 1- 10.
- Mugweru, F.G., D.W. Nyamai, M.W. Arika, M.P. Ngugi, P.K. Gathumbi. 2016. Antimicrobial activity of aqueous extracts of maytemus putterlickoides, senna

- spectabilis and olinia usambarensis on selected diarrhea-causing bacteria. J Bacteriol Parasitol 7: 270
- Mutaminah, D., B. Ibrahim, dan W. Trilaksmi. 2018. Antioxidant activity of protein hydrolysate produced from tuna eye (*Thunnus* sp.) by enzymatic hydrolysis. JPHPI. 21(3) : 522 – 531.
- Nasution, N. A., M. Nurilmala, dan A. Abdullah. 2018. Hidrolisat kuda laut (*Hippocampus* kuda) dan uji aktivitas antiinflamasi dengan metode penghambatan denaturasi protein . Jurnal Perikanan UGM. 21(1) : 47 – 51.
- Noman, A., Y. Xu, W.Q. AL-Bukhaiti, S.M. Abed, A.H. Ali, A.H. Ramadhan, dan W. Xia. 2018. Influence of enzymatic hydrolysis conditions on the degree of hydrolysis and functional properties of protein hydrolysate obtained from chinese sturgeon ( *Acipenser sinensis* ) by using papain enzyme. Process Biochemistry. 67: 19–28.
- Novita, H. 2013. Isolasi dan karakterisasi awal senyawa antibakteri dari ekstrak kasar teripang gajah (*Stichopus chloronotus*). Program Pascasarjana. Institut Pertanian Bogor. Tesis.
- Nurdiani, R., T. Vasilhevic, T.K. Singh, dan O.N. Donkor. 2017. Biactive peptides from fish by-products with anticarcinogenic potential. International Food Research Journal. 24(5) : 1840 – 1849.
- Nurilmala, M., T. Nurhayati, dan R. Roskananda. 2018. Limbah industri fillet ikan patin untuk hidrolisat protein. JPHPI. 21(2) : 287 – 294.
- Nurtamin, T., R.Y. Nurman, dan I. Hafizah. 2016. antibacterial activity of eel (*Anguilla* sp.) mucus against *Salmonella typhi*. Indonesia Biomedical. 8 (13) : 79 – 182.
- Petrova, I., I. Tolstirebrov, dan T.M. Eikevik. 2018. Production of fish protein hydrolysates step by step : technological aspects, equipment used, major energy costs and methodz of their minimizing. Int Aquat Research. 10 : 223 – 241.
- Pratiwi, R.P., M. Nurilmala, A. Abdullah, Nurjannah, r. Yusfiandayani, dan M.F.A. Sondita. 2020. Deteksi bakteri pembentuk amina biogenik pada ikan scombroidae secara multiplex PCR. JPHPI. 23(2) :
- Priyatni, S., K. Harimadi, E. Buana, W. Kosasih, dan Rohmatussolihat. 2020. Production and Characterization of Spray-Dried Swamp Eel (*Monopterus albus*) Protein Hydrolysate Prepared by Papain. Sains Malaysiana. 49(3) : 545 – 552.
- Puius, Y.A., T.H. Stievater, dan T. Srikrishnan. 2006. Crystal Structure, Conformation, and Cbsolute Configuration of Kanamycin A. Carbohydrate Research. 341(17) : 2871 – 2875.



- Purbasari, D. 2008. Produksi dan Karakterisasi Hidrolisat Protein dari Kerang Mas Ngur (*Atactodea striata*). Fakultas Perikanan dan Ilmu Kelautan. Institut Pertanian Bogor. Bogor. Skripsi.
- Ren. Y, H. Wu, F. Lai, M. Yang, X. Li, dan Y. Tang. 2014. Isolation and identification of a novel anticoagulant peptide from enzymatic hydrolysates of scorpion (*Buthus martensii* Karsch) protein. Food Research International. 64: 931–938.
- Rezaei, M., A. Akya, A. Elahi, K. Ghadiri, dan S. Jafari. 2016. The colonal relationship among the *Citrobacter freundii* isolated from the main hospital in kermanshah, west of iran. Iran Journal Microbiol. 8(3) : 175 – 180.
- Rinto. 2011. Bakteri asam laktat dari peda, bekasam, terasi dan rusip penghambat *Morganella morganii* (pembentuk histamin). Jurnal Penelitian Pertanian Terapan. 11 (2) : 1-9.
- Rocha, M. D., A. Aleman, G.C. Baccan, M.E. Lopez-Caballero, C. Gomez-Guillen, P. Montero, dan C. Prentice. 2018. Anti-inflammatory, antioxidant, and antimicrobial effects of underutilized fish protein hydrolysate. Journal of Aquatic Food Production. 27(5) : 592 – 608.
- Rocha, M., A. Aleman, M.E. Lopez-Cabellero, dan C. Prentice. 2017. Antimicrobial fish protein hydrolysate. XII Simposio de Hidrolise Enzimatica de Biomassa.
- Rogers, L., K. Power., P. O. Gaora., S. Fanning. 2016. *Esherichia coli* and other *Enterobacteriaceae* Occurrence and detection. Encyclopedia of Food and Health. Academic Press, Elsevier Ltd. Amsterdam.
- Rosli, N., dan N.M. Sarbon. 2015. Physicochemical and structural properties of asian swamp eel (*Monopterus albus*) skin gelatin as compared to bovine gelatin. International Food Research Journal. 22(2) : 699 – 706.
- Roy, R. 2009. Buku Pintar Budidaya dan Bisnis Belut. Agromedia Pustaka. Jakarta.
- Sabullah, M. K., S.A.M. Khalidi, N.A. Wahid, S.A. Sani, R. Abdulla, A.A.M. Faik, J.A. Gansau, S.A. Ahmad, dan M.Y. Shukor. 2019. Assessment of *Monopterus albus* liver as a source of cholinesterase for the detection of heavy metals. Journal of Physics. 1 – 9.
- Saputra, D., dan Nurhayati, T. 2016. Production of fish hydrolysates protein from waste carp (*Cyprinus caprio*) by enzymatic hydrolysis. ComTech. 7(1) : 11 – 18.
- Sarwono, B. 2003. Budi Daya Belut dan Sidat. Penebar Swadaya. Jakarta.
- Satomi, Masataka. 2016. Effect of histamine-producing bacteria on fermented fishery products. Food Science and Technology Research. 22(1) : 1 – 21.

- Shaibani, M. E., B. Heidari, S. Khodabandeh, S. Shahangian, S. Mirdamadi, dan M. Mirzaei. 2020. Antioxidant and antibacterial properties of protein hydrolysate from rocky shore crab, *Grapsus albolineatus* as affected by progress of hydrolysis. *Int. J. Aquat. Biol.* 8(3) : 184 – 193.
- Shinta, D., A. Supriyadi, dan S.D. Lestari. 2016. Pemanfaatan air cucian surimi belut sawah (*Monopterus albus*) dalam pembuatan *edible Film*. *FishTech – Jurnal Teknologi Hasil Perikanan*. 5(1) : 85 – 93.
- Siddik, M. A. B., Janet. Howieson, R. Fotedar, dan G.J. Partidge. 2020. Enzymatic fish protein hydrolysates in finish aquaculture : a review. *Reviews in Aquaculture*. 1 – 25.
- Simatupang, U.R. 2019. Pemanfaatan Enzim Papain pada Tablet Rennet sebagai Koagulan terhadap Karakteristik dan Fisik Rendemen Keju Segar Susu Kerbau Murah. Fakultas Pertanian. Universitas Sumatera Utara. Skripsi.
- Singh, A. A. 2008. Antibacterial effects of selected plants extracts against histamine producing bacteria, heterotropic bacteria and coliforms. The University of the South Pacific. Thesis.
- Singh, T. P., R.A. Siddiqi, dan D.S. Sogi. 2018. Statistical optimization of enzymatic hydrolysis of rice barn protein hydrolysate production by papain. *LWT – Food Science and Technology*.
- Song, R., R. Wei, B. Zhang, dan D.F. Wang. 2012. Optimization of the antibacterial activity of half-fin anchovy (*Setipinna taty*) hydrolysates. *Food Bioprocess Technology*. 5 : 1979-1989
- Srikanya, A., K. Dhanapal, K. Sravani, K. Madhavi, dan K.G. Praveen. 2018. A study on optimization of fish protein hydrolysate preparation by enzymatic hydrolysis from tilapia fish waste mince. *International Journal Curr. Microbiology Application and Science*. 6(12) : 3320-3229
- Standar Nasional Indonesia (SNI). 2013. SNI 2729-2013 : Ikan Segar ; Syarat Mutu dan Keamanan. Badan Standarisasi Nasional. Jakarta.
- Susanti., A.N. Dwiana, F. Annuryati, Asri. Darmawati, dan Isnaeni. 2020. Validated TLC-contact bioautography method for identification of kanamycin sulfate in injection preparation. *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*. 7(1) : 35 – 41.
- Tarina, N.T.I., dan S.A.F. Kusuma. 2017. Deteksi bakteri *Klebsiella pneumoniae*. *Jurnal Farmaka*. 15(2) : 119 – 126.
- Thuy, C.X., T.B. Lam, dan K. Commick. 2015. Biochemichal and functional properties of fish potein isolate from *Pangasius hypophthalmus* byproduct as influenced by time and degree of hydrolysis. *International Food Research Journal*. 22(1) : 337 – 343.



- Tortorella, V., M. Peppino, P. Mario, M. Assunta, P.T. Simona, C.Z. Maria. S. Annamaria, dan V. Mario. 2014. Case report : histamine poisoning from ingestion of fish or scombroid syndrome. Hindawi Publishing Corporation. 1 – 4.
- Utomo, B.S.B., T.D. Suryaningrum. dan H.R. Hariyanto. 2014. Optimization of enzymatic hydrolysis of fish protein hydrolysate (fph) processing from waste of catfish fillet production. Squalen Bulletin of Marine & Fisheries Posyjarvest & Biotechnology. 9(4) : 115 – 126.
- Visciano, P., M. Schirone, R. Tofallo, dan G. Suzzi. 2014. Histamine poisoning and control measures in fish and fishery products. Forntiers in Microbiology. 5 (500) : 1 – 3.
- Visciano, P., M. Scirone, dan A. Paparella. 2020. An overview of histamine and other biogenic amines in fish and fish products. Foods. 9 (1795) : 1- 15.
- Wang, Xiao M., W. Dai, K.Z. Xing, T.J. Li dan X. Wang. 2012. Antibacterial activities of antibacterial proteins/ peptides isolates from organs and mucus of *Clarias gariepinus* reared at highest stocking density. Advanced Materials Research. (455-456) : 455-460
- Wangkheirakpam, M. R., S.S. Mahanand, R.K. Majumdar, S. Sharma, D.D. Hidangmayum, dan S. Netam. 2019. Fish waste utilization with reference to fish protein hydrolysate – a review. Fishery Technology. 56 : 169 – 178.
- Wiranata, D. P. 2020. Ikan Tuna Mata Besar, Cakalang, dan Tongkol yang Didaratkan di Pelabuhan Perikanan Pantai Sadeng, Gunung Kidul. Fakultas Pertanian, Universitas Gadjah Mada, Skripsi.
- Witono, Y., A. Subagio, dan S.B. Widjanarko. Karakterisasi hidrolisat protein kedelai hasil hidrolisis menggunakan protease dari tanaman biduri (*Calotropis gigantea*). Berk. Penel. Hayati. 13 : 7 – 13.
- Yusni, E., K.E.S. Zai, dan Z. Zulkifli. 2019. Analysis of histamin content in tuna fish *Thunnus* sp. with elisa method at fishing port of belawan, north sumatera, indonesia. IOP Conf. Ser. : Earth Enviromental Science. 348 :1 – 5.
- Zodape, G. V. 2018. Studies on the antibacterial activity of bioactive compounds of fish *Tetraodon Fluvalatilis* of west coast of mumbai. Biomedical and Pharmatology Journal. 11 (1) : 513 – 518.