

## DAFTAR PUSTAKA

- Adji, K. 2008. Evaluasi Kontaminasi Bakteri Pathogen pada Ikan Segar Diperairan Teluk Semarang. Tesis. Program Magister, Program Studi Managemen Sumberdaya Pantai, Universitas Dipnegoro.
- Adriana, R. 2017. Keberadaan Bakteri *Escherichia coli* di Kawasan Wisata Pantai Tanjung Bayang dan Akkarena Kota Makassar. Skripsi. Program Sarjana, Departemen Ilmu Kelautan, Fakultas Ilmu Kelautan dan Perikanan Universitas Hasanuddin.
- Altinok, I, Kayis, S & Capkin, E. 2006. *Pseudomonas putida* Infection in Rainbow Trout. Aquaculture vol. 261, no. 261: 850-855.
- Anderson, KF, Patel, JB & Wong, B. 2009. Characterization of Enterobacteriaceae with a falsepositive modified Hodge test, Abstracts of the Forty-ninth Interscience Conference on Antimicrobial Agents and Chemotherapy. American Society for Microbiology, 719-41.
- Antonello, VS, Dalle, J, Domingues, GC, Ferreira, JAS, Fontoura, MdoCQ & Knapp, FB. 2014. Post- Cesarean Surgical Site Infection due to *Buttiauxella agrestis*. Infectious Diseases vol. 22, 65-66.
- Baban, ST. 2017. Prevalence and Antimicrobial Susceptibility of Extended Spectrum Beta-Lactamase-Producing *Klebsiella pneumoniae* Isolated from Urinary Tract Infection, :Researcgate, viewed 7 May 2020, <https://www.researchgate.net/publication>.
- Bagley, ST. 1985. Habitat Association of *Klebsiella* Species, Infection Control and Hospital Epidemiology vol. 6, no. 2. viewed 10 May 2020. <https://www.cambridge.org>.
- Baliwati, Y.F. 2004. Pengantar Pangan dan Gizi. Cetakan I. Penerbit Swadaya. Jakarta.
- Bernal, P, Allsopp, LP, Filloux, A, & Llamas, MA. 2017. The *Pseudomonas putida* T6SS is a Plant Warden Against Phytopathogens. International Society for Microbial Ecology Journal vol. 11, 972-987.
- Cang, WS, Li, X, & Halverson, LJ. 2009. Influence of Water Limitation on Endogenous Oxidative Stress and Cell Death within Unsaturated *Pseudomonas putida* Biofilms. Environmental Microbiology vol. 11, no. 6: 1482-1492.
- Cappuccino. J & Sherman, N. 1987. Microbiology: A Laboratory Manual. Fourth Edition. NewYork: Addison-Wesley Publishing Company.p.60,139,186, 471.
- Castinel, A, Grinberg, A, Pattison, R, Duignan, P, Pomroy, B, Rogers, L & Wilkinson, I. 2007. Characterization of *Klebsiella pneumoniae* isolates from New Zealand sea lion (*Phocarctos hookeri*) pups during and after the epidemics on Enderby Island and Island. Veterinary Microbiology vol. 122, 178-184.
- E, Dundar, DO, Yegenaga, I, Willke, A. 2008. Infection vol. 36, no. 4: 379-380.



- Dionisio, D, Belli, A, Dionisio, A, Poggiali, G, Corradini, S, Pierotti, P, Menci, R, Favi, P & Mecocci, L. 1992. Appendicitis: Microbial Interactions and New Pathogens. *Recenti Prog Med* vol. 83, 330-6.
- Dzen, S.M. 1994. Dasar-dasar Mikrobiologi. Laboratorium Mikrobiologi Fakultas Kedokteran Universitas Brawijaya. Malang
- Effendi, H. 2003. Telaah Kualitas Air bagi Pengelolaan Sumber Daya dan Lingkungan Perairan. Cetakan Kelima. Kanisius. Yogjakarta.
- Fernandez, M, Porcel, M, Torre, JDL, Henares, MA, Molina, Daddaoua, A, Llamas, MA, Roca, A, Carriel, V, Garzon, I, Ramos, JL, Alaminos, M & Duque, E. 2015. Analysis of the Pathogenic Potential of Nosocomial *Pseudomonas putida* Strains. *Frontiers in Microbiology* vol.6, 871.
- Ferragut, C, Izard, D, Gavini, F, Lefebvre, B, & Leclerc, H. 1981. *Buttiauxella* a new genus of the family Enterobacteriaceae. *Zentbl. Bakteriol. Mikrobiol. Hyg. 1 Abt. Orig. C* 2, 33–44.
- Ferragut, C, Izard, D, Gavini, F, Lefebvre, B, & Leclerc, H. 1982. *Buttiauxella agrestis*. NCBI (National Centre for Biotechnology Information) viewed 8 May 2020, <https://www.ncbi.nlm.nih.gov/Taxonomy>.
- Gong, An-Dong, Li, He-Ping, Shen, L, Zhang, Jing-Bo, Wu, Ai-Bo, He, Wei-Jie, Yuan, Qing-Song, He, Jing-De & Liao, Yu-Cai. 2015. The *Shewanella alga*e Strain YM8 Produces Volatiles with Strong Inhibition Activity Against *Aspergillus* Pathogens and Aflatoxins. *Frontiers in Microbiology* vol. 6, 1091.
- Gopi, M, Kumar, TTA & Prakash, S. 2016. Opportunistic Pathogen *Klebsiella pneumonia* Isolated from Maldives Clown Fish *Amphiprion nigripes* with Hemorrhages at Agatti Island Lakshadweep archipelago. *International Journal of Fisheries and Aquatic Studies* vol. 4, no. 3: 464-467.
- Gram, L & Dalgaard, P. 2002. Fish Spoilage Bacteria-Problems and Solutions. Technical University of Denmark. In *Biotechnology* vol. 13, 262-266.
- Ghufran, M & Kordi, H. 2005. Budidaya Ikan Baronang. Rineka Cipta. Jakarta.
- Halim, F, Warouw, SM, Rampengan, NH & Salendu, P. 2017. Hubungan Jumlah Koloni *Escherichia coli* dengan Derajat Dehidrasi pada Diare Akut. *Sari Pediatri* vol 19, no. 2: 81-85.
- Handoyo, D & Rudiretna. 2000. Prinsip Umum dan Pelaksanaan Polymerase Chain Reaction (PCR). Pusat Studi Bioteknologi Universitas Surabaya vol. 9, no. 1: 17-29.
2015. Parasit Biota Akuatik. Mulawarman University Press. Samarinda.
- Gralnick, JA. 2007. Ecology and Biotechnology of the Genus *Shewanella*. *Annu Microbiol* vol. 61, 237-258.



- Holt, HM, Per Sogaard & Gahrn-Hansen, B. 1996. Ear Infectios with *Shewanella alga*: A Bacteriologic Clinical and Epidemiologic Study of 67 Cases. *Clinical Microbiology and Infection* vol. 3, no. 3: 329-334.
- Holt, HM, Gahrn-Hansen & Bruun, B. 2005. *Shewanella alga* and *Shewanella putrefaciens*: Clinical and Microbiological Characteristics. *Clinical Microbiology Infection* vol. 11, no. 5: 347-352.
- Holt, KE, Wertheim, H, Zadoks, RN, Baker, S, Whitehouse, CA, Dance, D, Jenney, A, Connor, TR, Hsu, LY, Severin, J. et al. 2015. Genomic Analysis of Diversity, Population Structure, Virulence, and Antimicrobial Resistance in *Klebsiella pneumoniae*, an Urgent Threat to Public Health. *Proc. Natl. Acad. Sci.U.S.A.* 112, E3574–E3581.
- Ijong, F.G. 2015. Mikrobiologi Kelautan dan Perikanan. PT. Rineka Cipta. Jakarta.
- Irianto, K. 2007. Mikrobiologi: Mikrobiologi Menguak Dunia Mikroorganisme. Jilid 1. CV.Yrama Widya. Bandung
- Jampala, S, Meera, P, Vivek, V & Kavitha, DR. 2015. Skin and Soft Tissue Infections due to *Shewanella algae*-An Emerging Pathogen. *Journal of Clinical and Diagnostic Research* vol. 9, no. 2: 16-20.
- Kluga, A, Terentjeva, M, Kantor, A, Kluz, M, Puchalski, C & Kacaniova, M. 2017. Antibacterial Activity of *Melissa officinalis* L., *Mentha piperita* L., *Origanum vulgare* L. and *Malva mauritiana* against Bacterial Microflora Isolated from Fish. *Advanced Research in Life Sciences* vol. 1, no. 1: 75-80.
- Kuiter, R.H & Tonozuka, T. 2001. Indonesian Reef Fishes. Part 1. Zoonetics. Australia.
- Lam, TJ. 1974. Siganids: their biology and mariculture potential. *Aquaculture* vol. 3, no. 4: 325-354.
- Lang, C & Staiger, C. 2016. Tyrothricin-An Underrated Agent the Treatment of Bacterial Skin Infections and Superficial Wounds. Engelhard Arzneimittel GmbH & Co KG, Niederdorfelden, Germany. vol. 71, 299-305.
- Lemanceau, P. 1992. Beneficial effects of rhizobacteria on plants: example of fluorescent *Pseudomonas* spp. *Agronomie* vol. 12, 413–437.
- Lignieres. 1900. *Salmonella*. National Centre for Biotechnology Information viewed 12 June 2020. <https://www.ncbi.nlm.nih.gov/Taxonomy/Browser>
- Lombardi, G, Luzzaro, F, Docquier, JD, Riccio, ML, Rossolini, GM & Toniolo, A. 2002. Nosocomial Infections Caused by Multidrug-Resistant Isolates of *Pseudomonas* Producing VIM-1 Metallo-β-Lactamase. *Clinical Microbiology* vol. 40, no. 11: 4055.
- ter, EI, Rodriguez-Jerez, JJ, Hernandez-Herrero, M, Roig-Sagues, AX & Mora-  
ra, MT. Sensory Quality and Histamine Formation during Controlled  
Composition of Tuna (*Thunnus thynnus*). *Food Protection* vol. 59, no. 2: 167-174.



MacDonnel, MT & Colwell, RR. 1985. Phylogeny of the Vibrionaceae and Recommendation for Two New Genera, *Listonella* and *Shewanella*. Systematic Applied Bacteriology vol. 6, 71-182.

Mangarengi, Y, Harun, A, Noor, AZ & Batari, ANF. 2016. Identifikasi dan Isolasi Bakteri Penyebab Penderita dengan Gejala Suspek Demam *Typhoid* di Rumah Sakit Ibnu Sina Makassar. UMI Medical Journal vol. 1, no. 1: 51-65.

Massinai, A, Tahir, A & Abu, N. 2019. High Concentrations of Pathogenic *Salmonella* spp. During the Wet Season on Bathing Beaches in Makassar City Indonesia. Ser: Earth and Environmental Science, 253.

Mulcahy, G. 1993. The Characterization of *Pseudomonas* Species from a Commercial Bioaugmentation Product. Thesis. The Degree of PhD. Biological Sciences Dublin City University.

Muller, HE, Brenner, DJ, Fanning, GR, Grimont, PA & Kampfer, P. 1996. Emended Description of *Buttiauxella agrestis* with Recognition of Six New Species of *Buttiauxella* and Two New Species of *Kluyvera*: *Buttiauxella ferragutiae* sp. nov, *Buttiauxella gaviniae* sp. nov, *Buttiauxella brennere* sp. nov, *Buttiauxella izardii* sp. nov, *Buttiauxella noackiae* sp. nov, *Buttiauxella warmboldiae* sp. nov, *Kluyvera cochleae* sp. nov and *Kluyvera georgiana* sp. nov. Systematic Bacteriology vol. 46, no. 1: 50-63.

Nurjannah, S, Prayitno, SB & Saritjo. 2014. Sensitivitas Bakteri *Aeromonas* sp. dan *Pseudomonas* sp. yang Diisolasi pada Ikan Mas (*Cyprinus carpio*) Sakit terhadap Obat Beredar. Aquaculture Management and Technology vol. 3, no. 4: 308-316.

Okada, F, Ando, F, Honda, K, Nakayama, T, Ono, A, Tanoue, S, Maeda, T & Mori, H. 2009. Clinical and Pulmonary Thin-Section CT Findings in Acute *Klebsiella pneumonia pneumonia*. Eur Radiol vol. 19, no. 4: 809-815.

Padoli. 2016. Mikrobiologi dan Parasitologi Keperawatan. Modul Bahan Ajar Cetak Keperawatan. Kementerian Kesehatan Republik Indonesia. Pusat Pendidikan Sumber Daya Manusia Kesehatan Badan Pengembangan dan Pemberdayaan Sumber Daya Manusia Kesehatan.

Patra, N, Prakash, MR, Patil, S & Rao, MB. 2018. First Case Report of Surgical Site Infection Due to *Buttiauxella agrestis* in a Neurocare Center in India. Archives of Medicine and Health Sciences vol. 6, no. 1: 117-119.

Pelczar, MJ & Chan, ECS. 2007. Dasar-Dasar Mikrobiologi 2. Universitas Indonesia. Jakarta.

Petersen, Sofie, A, Federspiel, Frederik, Dungu, Arnold, Sobarg & Christian. 2018. *Shewanella alga*- Bakteriæmi Efter Ferie i Thailand. Ugeskrift for Laeger vol. 180, : 2-3.



Suryati & Hetty. 2007. Identifikasi Cepat Mikroorganisme Menggunakan Alat -2. Clinical Pathology and Medical Laboratory. Airlangga University Press vol. 3: 129-132.

Putri, MH, Sukini & Yodong. 2017. Mikrobiologi. Bahan Ajar Keperawatan Gigi. Pusat Pendidikan Sumber Daya Manusia Kesehatan Badan Pengembangan dan Pemberdayaan Sumber Daya Manusia Kesehatan.

Richard, GP, Watson, MA, Crane III, EJ, Burt, IG & Bushek, D. 2008. *Shewanella* and *Photobacterium* spp. In Oysters and Seawater from the Delaware Bay. Applied and Environmental Microbiology vol. 74, no. 11: 3323-3327.

Safruddin. 2008. Zona potensial penangkapan ikan baronang Lingkis (*Siganus canaliculatus*) berdasarkan parameter oseanografi di Perairan Pulau Tanakeke Kabupaten Takalar. Torani vol. 18, no. 4: 325-331.

Sagara, MED. 2016. Keberadaan Bakteri Patogen *Salmonella* sp. pada Permandian Pantai Kota Makassar Saat Pasang dan Surut. Skripsi. Program Sarjana, Departemen Ilmu Kelautan, Fakultas Ilmu Kelautan dan Perikanan Universitas Hasanuddin.

Sahabuddin, Burhanuddin, I, Malina, AC & Nurhapsa. 2015. Morfometrik dan Meristik Ikan Baronang (*Siganus canaliculatus* PARK, 1797) Di perairan Teluk Bone dan Selat Makassar. Torani vol. 25, no, 1: 44-52.

Schlegel, H. G. 1994. Mikrobiologi Umum. Edisi keenam. Gajah Mada University Press. Yogyakarta.

Schroeter. 1886. *Klebsiella pneumonia*. National Centre for Biotechnology Information viewed 9 May 2020. <https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi>

Simidu, U, Tsukamoto, K, Yasumoto, K & Yotsu, M. 1990. Taxonomy of Four Marine Bacterial Strains that Produce Tetrodotoxin. Systematic Bacteriology viewed 9 May 2020. <https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi>.

Stanimirova, I, Petrova, A & Murdjeva, M. 2015. Case of *Shewanella putrefaciens* Gastroenteritis in Bulgaria-an Evaluation of *Shewanella* Role in Infectious Diarrhea. Sikkin Manipal University Medical vol. 2, no. 2: 215-227.

Sudewi, S, Widiastuti, Z, Mastuti, I, & Mahardika, K. 2019. Identification and Pathogenicity Test of Some Bacteria Isolated from Wild and Farmed Spiny Lobster *Panulirus homarus*. Berita Biologi Jurnal Ilmu-Ilmu Hayati vol. 18 no. 3.

Suharsono. 1998. Kesadaran Masyarakat Tentang Terumbu Karang. Pusat Penelitian dan Pengembangan Oseanologi, LIPI. Jakarta

Susilo, J, Sartono, TR & Sumarno. 2002. Deteksi Bakteri *Klebsiella pneumoniae* pada Sputum dengan Metode Imunositokimia Menggunakan Anti Outer Membrane Protein Berat Molekul 40 KDa *Klebsiella pneumoniae* sebagai Antibodi. PPDS Paru FK Unibraw, Laboratorium Paru FK Unibraw, Laboratorium Mikrobiologi FK Unibraw.



LI. 2014. Kualitas Perairan Tambak Udang Berdasarkan Parameter Biologi. Ilmu dan Teknologi Kelautan Tropis vol. 6, no. 1: 157-170.

Chikumi, H, Morishita, S, Hamada, S, Hoi, S, Iyama, T, Fukui, T, Matono, T, a, S, Munemura, C, et al. 2017. *Shewanella algae* Bacteremia in an End-

Stage Renal Disease Patient: A Case Report and Review of the Literature. Internal Medicine vol. 56, 729-732.

Tasic, S, Kojic, M, Obradovic, D & Tasic, I. 2014. Molecular and Biochemical Characterization of *Pseudomonas putida* Isolated from Bottled Uncarbonated Mineral Drinking Water. Archives of Biological Sciences vol. 66, no. 1: 23-28.

Taylor, SL, Stratton, JE, Nordlee, JA. 1989. Histamine poisoning (scombroid fish poisoning): an allergy-like intoxication. Clinical Toxicol vol. 27, no. 4-5: 225-240.

Thomas, BS, Okamoto, K, Bankowski, MJ & Seto, TB. 2013. A Lethal Case of *Pseudomonas putida* Bacteremia Due to Soft Tissue Infection. Infectious Diseases in Clinical Practice vol. 21, no. 3: e13-e15.

Trivedi, MK, Braton, A, Trivedi, D, Shettigar, H, Gangwar, M & Jana, S. 2015. Antibiogram Typing and Biochemical Characterization of *Klebsiella pneumoniae* after Biofield Treatment. Tropical Diseases vol. 3, no. 4: 5-6.

Trevisan, 1889. *Pseudomonas putida*. National Centre for Biotechnology Information. viewed 9 May 2020. <https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi>.

Venkateswaran, K, Moser, DP, Dollhopf, ME, Lies, DP, Saffarini, DA, MacGregor, BJ, Ringelberg, DB, White, DC, Nishijima, M, & Sano, H. 1999. Polyphasic Taxonomy of the Genus *Shewanella* and Description of *Shewanella oneidensis* sp. Systematic Bacteriology vol. 49, 705-724.

Volke, DC, Calero, P & Nikel, PI. 2020. *Pseudomonas putida*. Trends in Microbiology vol. 20, no, 20.

Vosloo, JA, Stander, MA, Leussa , AN, Spathelf, BM & Rautenbach, M. 2013. Manipulation of the Tyrothricin Production Profile of *Bacillus aneurinolyticus*. Microbiology vol. 159, 2200-2211.

Walker, TS, Bais, HP, Déziel, E, Schweizer, HP, Rahme, LG & Fall, R. 2004. *Pseudomonas aeruginosa*-plant root interactions. Pathogenicity, biofilm formation, and root exudation. Plant Physiol vol. 134, 320–331.

Widianto, 2009. Cara Penularan *Salmonella* sp. viewed 5 June 2020. <https://jptunimus-gdl-wahyunengs5324-2-bab2.pdf>

Woodland, D.J. 1990. Revision of the fish family Siganidae with descriptions of two new species and comments on distribution and biology. Indo-Pac. Fish vol. 19, 136.

Yazgan, H, Ozogul, Y & Kuley, E. 2019. Antimicrobial influence of nanoemulsified lemon essential oil and purelemon essential oil on food-borne pathogens andfish spoilage bacteria. Food Microbiology vol. 306, 1-8.

N, Bhakyaraj, R, Chanthuru, A, Anbalagan, T & Nila, KM. 2009. Detection of ce gene in *Aeromonas hydrophila* isolates from fish samples using PCR que. Biotechnology & Biochemistry vol. 4, no. 1: 51- 53.



Zhang, F, Fang, Y, Pang, F, Liang, S, Kan, B, Xu, J, Zhao, J, Du, Y & Wang, D. 2018. Rare *Shewanella* spp. Associated with Pulmonary and Bloodstream Infections of Cancer Patients Cina: A Case Report. BMC Infectious Diseases vol. 18, 454.



Optimization Software:  
[www.balesio.com](http://www.balesio.com)

## **LAMPIRAN**



Lampiran 1. Prepasi Sampel:a. Penimbangan sampel; b. Penghancuran sampel; c. Pengambilan organ target; d. Pengenceran



Lampiran 2. Medium SSA (Salmonella Shigella Agar)



Lampiran 3. Perhitungan Bakteri



Lampiran 4. Pemurnian Bakter



Optimization Software:  
[www.balesio.com](http://www.balesio.com)

Lampiran 5. Uji Reaksi Biokimia Menggunakan Mesin VITEX

