

## DAFTAR PUSTAKA

- Abdullah-Rasyid, 2001, *Prosiding Seminar IPTEK Kelautan Nasional*, Pusat Penelitian Oseanografi LIPI Jakarta
- Affandi, R. dan U. M Tang, 2002. *Fisiologi Hewan Air*. Unri Press. Riau. 217 hal.
- Alvarez, M.R. & F.E. Friedl. 1990. Factors affecting *in vitro* phagocytosis by hemocytes of the American oyster. *Proceeding of the Third International Colloquium on Pathology in Marine Aquaculture*. 2-6 October 1988. Virginia, USA.
- Amlacher, E. 1970. *Text book of Fish Diseases*. New York. USA : PD. A. T. F. H. Publication. 302 p.
- Amrullah. 2005. Penggunaan immunostimulan *Spirulina platensis* untuk meningkatkan ketahanan tubuh ikan koi (*Cyprinus carpio*) terhadap virus herpes. *Tesis*, Program Pasca Sarjana Institute Pertanian Bogor, Bogor.
- Anderson, D.P. 1992. Immunostimulant, Adjuvants, and Vaccine Carrier in Fish: Application to Aquaculture. *Annual Review Fish Disease*, 2: 281-307.
- Andrade, A.J. 2011. Shrimp Immunological Reactions Against WSSV: Role of Haemocytes on WSSV Fate. [Thesis]. Faculty of Bioscience Engineering, Ghent University.
- Batubara, H, W. Wiyani, S. Mulyani, H. Rasyid, Srinawati, I. M. Suitha, Suriana, Murniati dan Saraswati. 2005. *Invitro Sensitivitas Test Mencari Bakteri Probiotik Pengontrol Pertumbuhan Vibrio harveyi Penyebab Vibriosis*. Departemen Kelautan dan Perikanan, Direktorat Jendral Perikanan Budidaya. Balai Budidaya Air Payau Takalar. hal 51 – 55
- Baratawidjaja, K. G. (2006) *Imunologi Dasar*, Edisi ke Tujuh. Balai Penerbit Fakultas Kedokteran Universitas Indonesia, Jakarta. 572 hal.
- Bauman DE, Perfield JW, de Veth MJ, Lock AL. 2003. New perspectives on livid digestion and metabolism in ruminants. *Proc Cornell Nutr Conf pp*. 175-189.

- Bell, M.V., R.J. Henderson dan J.R. Sargent. 1986. The role of polyunsaturated fatty acids in fish. Mini Review. *Comp. Biochem. Physiology*, 83B:711-719.
- Bijanti, R. 2005. Hematologi Ikan (Teknik Pengambilan Darah dan Pemeriksaan Hematologi Ikan). *Buku Ajar*. Bagian Ilmu Kedokteran Dasar Veteriner, Fakultas Kedokteran Hewan. Universitas Airlangga. Surabaya. hal. 22.
- Brown, K.M.T. 2000. Applied fish pharmacology. Kluwer Academic Publisher, *The Netherland*.
- Campa-Courdova, A.I., N.Y. Hernaandez-Saavedra, R. De Phillipis, & F. Ascentio. 2002. Generation of Superoxide Anion and SOD Activity in Haemocytes and Muscle of American White Shrimp (*Litopenaeus vannamei*) as a Response to beta -glucan and Respiratory Burst Activity of Turbot Phagocytes. *Aquaculture* 229: 67–78
- Chan, S.C., J.T. Huber, K. H. Chen, J. M. Simas and Z.Wu. 1997. Effects Of Ruminally Inert Fat And Evaporative Cooling On Dairy Cows In Hot Environmental Temperature. *J. Dairy Sci.* 80:1172-1178.
- Chisholm, J.R.S. & V.J. Smith. 1995. Comparison of antibacterial activity in the hemocytes of different crustacean species. *Comparative Biochemistry and Physiology*, 110:39-45.
- Das, B.K and S.N Sethi. 2009. Immune Functions in Crustaceans. Application of Molecular and Serological Tools in Fish Disease Diagnosis (CIFA). Orisaa, India.
- Effendie, M.I. 1997. *Metode Biologi Perikanan*. Cetakan Pertama. Penerbit Yayasan Dwi Sri Bogor. 112 Halaman.
- Effendy, S; Alexander. R dan Akbar. T. 2004. Peningkatan Haemosit Benur Udang Windu (*Penaeus monodon* Fabricus) Pasca Perendaman Ekstrak Ragi Roti (*Saccharomyces cerevisiae*) Pada Konsentrasi Yang Berbeda. *Jurnal Sains dan Teknologi*, Agustus 2004, Vol 14 No.2: 46-53.
- Elovaara AK. 2001. Shrimp Farming Manual : *Practical Technology For Intensive Commercial Shrimp Production*. Carribbean Press Ltd. USA. p. 200.
- Fegan D F, 2003. *Budidaya Udang Vannamei (Litopenaeus vannamei) di Asia* Gold Coin Indonesia Specialities Jakarta.
- Furuita, H., T. Takeuchi, M. Toyota, and T. Watanabe. 1996. EPA and DHA Requirement in early juvenile red sea bream usng HUFA enriched Artemia nauplii. *Fish. Sci.* 62(2):246-251.

- Ghufran, M. 2010. *Budi Daya Ikan Patin di Kolam Terpal*. Yogyakarta: Lily Publisher.
- Gunarto dan Hendrajat, E.A. 2008. Budidaya Udang vanamei, (*Liptopanaeus Vanname*) Pola Semi Intensif Dengan Penggunaan Beberapa Probiotik Komersial. *J. Ris. Aquaculture*. 3(3): 339-349.
- Haliman R.W, Adijaya DS. 2004. Udang Vannamei. Jakarta: Panebar Swadaya.
- Haliman, R.W dan Adidjaya, D.S. 2005. *Udang Vanamei, Pembudidayaan Dan Prospek Pasar Udang Vaname Yang Tahan Penyakit*. Penebar Swadaya, 70 Halaman.
- Hose, J.E. &, G.G Martin. 1989. Defense functions of granulocytes in the ridgeback prawn *Sicyonia ingentis*. *Journal of Invertebrate Pathology*, 53: 335-346. V. Inglis, R.J. Roberts & N.R. Bromage (Eds.). 1993. *Bacterial Diseases of Fish*. The University Press, Cambridge.
- Inglis, V., J Roberts, and N.R. Bromage. 1993. *Bacterial Disease of Fish*. Institute of Aquaculture. Blackwell Science Ltd. Oxford. 312 p.
- Irianto, H.E., Suparno, Murtini, J.T. dan Sunarya. 1995. Kandungan Asam Lemak Omega-3 Beberapa Jenis Ikan dan Produk Olahan Tradisional. *di dalam Prosiding Widyakarya Nasional Khasiat Makanan Tradisional*, Jakarta 9-11 Juni 1995, p.176-181, Kantor Menteri Negara Urusan Pangan, Jakarta
- Isnansetyo, A. 2007. Petunjuk Praktikum Hematologi Ikan (Evaluasi Pertahanan Non Spesifik Ikan), *Pelatihan Hematologi Ikan*. Laboratorium Hama dan Penyakit Ikan. Universitas Gadjah Mada. Yogyakarta.
- Itami, T. 1994. Body Defense System of Penaeid Shrimp. *Paper Presented on Seminar on Fish Physiology and Prevention of Epizootics*. Dept. of Aquaculture and Biology. Shimonosheki Univ. of Fisheries. Japan.
- Johnny, F. dan D. Roza. 2004. Pengaruh penyuntikan imunostimulan peptidoglikan terhadap peningkatan tanggap kebal non-spesifik ikan kerapu macan, *Epinephelus fuscoguttatus*. *Jurnal Aquaculture Indonesia*. Volume 5(2): 109-115.
- Kajita, Y.M. Sakai, S.D. Atsuta, dan M. Kobayashi. 1990. The Immunomodulatory Effects of Levamisole on Rainbow Trout *Onchorhynchus Mykiss*. *Fish Pathol.* 25: 93-98.
- Kanazawa, A., S. Teshima dan M. Sakamoto. 1980. Requirement of *Tilapia zillii* for essential fatty acids. *Bull. Japan. Soc. Scie. Fish.*, 46:1353-1356.

- Kumaravel, K., S. Ravichandran, and S. Sritama-Bose. 2010. In vitro antimicrobial activity of shrimps haemolymph on clinical pathogens. *African J. Microbiol. Research* 4(23):2592-2596.
- Larkins, P.E.,1993. *Shrimp Diseases and Shrimp Farm Management on The Mallaca Strait Coast of North Sumatra Prtovince*.NESPP/ODA. Directorate General of Fisheries of Indonesia.p.108.
- Lio-Po, G.D, Celia. R.L and Erlinda R.C.L. 2001. Health Management in Aquaculture. *Aquaculture Department*. Southeast Asian Fisheries Development Center. Philippines.
- Manoppo, H. 2011. *Peningkatan Respons Imun Non-Spesifik, Resistensi, Dan Pertumbuhan Udang Vaname (Litopenaeus Vannamei) Melalui Pemberian Pakan Nukleotida*. Departemen Budidaya Perairan, FPIK, Institut Pertanian Bogor.
- More, J.H and W.W Christie.1984. Digestion, Absorbation, And Transport Of At In Ruminant Animals. In: *Fats In Animal Nutrition*, University Of Nottingham. 123-140.
- Nur, Abidin, 2011. *Manajemen Pemeliharaan Udang Vaname*. Direktorat Jenderal Perikanan Budidaya Balai Besar Pengembangan Budidaya Air Payau Jepara.
- Panagan, A. T., Yohandini, H., dan Gultom, J. U. 2011. Analisa Kualitatif dan Kuantitatif Asam Lemak Tak jenuh Omega-3 dari Minyak Ikan Patin (*Pangasius pangasius*) dengan Metoda Kromatografi Gas. *Jurnal Penelitian Sains*, Vol. 14 (4): 38-40.
- Patang. 2013. Pengaruh Penggunaan Berbagai Antibiotik Dan Probiotik Dengan Dosis Berbeda Terhadap Pertumbuhan Dan Kualitas Air Pada Larva Udang Windu (*Penaeus Monodon Fabricius*). *Jurnal Agrisistem*, Desember 2012, Vol. 8 No. 2
- Pelczar, M.J., E.C.S. Chan & N.R. Kreig. 1993. Microbiology. *Concepts and Applications*. Mc. Graw-Hill, Inc. New York. p. 446-451.
- Prajitno, A. 2005. *Diktat Parasit dan Penyakit Ikan*. Fakultas Perikanan. Universitas Brawijaya, 105 hal.
- Roza, D dan Johnny, F., 2004. Peningkatan Kekebalan Larva Ikan Kerapu Bebek *Cromileptes altivelis* Dengan Menggunakan Immunostimulan Terhadap Infeksi VNN. *Prosiding Pengendalian Penyakit Pada Ikan dan Udang Berbasis Imunisasi dan Biosecurity*. Purwokerto.

- Rusmana D, Piliang WG, Setiyono A, Budijanto S. 2008. Minyak ikan lemuru dan suplementasi vitamin E dalam ransum ayam broiler sebagai imunomodulator. *Animal production* 10 : 110-116.
- Sakai, M. 1999. Current Research Status of Fish Immunostimulants. *Aquaculture* 172 : 63-92
- Saptiani, G. dan Hartini. 2008. Daya hambat dan daya lindung ekstrak daun sirih (*Piper bettle* L) terhadap bakteri *Vibrio harveyi* secara in vitro dan in vivo pada post larva udang windu (*Penaeus monodon* F.). *Konferensi Indonesian Aquaculture*. Indoaqua, Yogyakarta.
- Smith, V.J. & N.A. Ratcliffe. 1980. Cellular defence reactions of the shore crab, *Carcinus maenas* (L), in vivo hemocytic and histopathological responses to injected bacteria. *Journal of Invertebrate Pathology*, 35:65-74.
- Smith, V.J, Brown, J.H, Hauton, C. 2003. Immunostimulation in crustaceans: does it really protect against infection? *Fish & Shellfish Immunology*.
- Soemardjati, W. dan Suriawan, A. 2006. *Petunjuk Teknis Budidaya Udang Vaname (Liptopanaeus vannamei) Di Tambak*. Departemen Kelautan Dan Perikanan. Direktorat Jendral Perikanan Budidaya. Balai Budidaya Air Tawar Situbondo, 30 halaman.
- Soderhall, K., V.J. Smith & M. Johansson. 1986. Exocytosis and uptake of bacteria by isolated haemocyte populations of two crustaceans: *evidence for cellular co-operation in the defence reactions of arthropods*. *Cell and Tissue Research*, 243:43-49.
- Soderhall, K. & L. Cerenius. 1992. Crustacean immunity. *Annual Review of Fish Disease*, 2: 3—23.
- Sohne, K.S., M.K. Kim, J.D. Kim & I.K. Han. 2000. The role of immunostimulants in monogastric animal and fish – review. *J. Anim. Sci.*, 13(8): 1178-1187
- Supadmo. 1997. *Pengaruh Sumber Khitin dan Prekursor Karnitin serta Minyak Ikan Lemuru terhadap Kadar Lemak dan Kolesterol serta Asam Lemak Omega-3 Ayam Broiler [disertasi]*. Bogor: Program Pascasarjana IPB.
- Supamattaya, K.J. Kasornchandra dan S. Boonyaratpalin. 1994. *Kegiatan Vaksinasi Pada Beberapa Stadia Udang Windu (Penaeus monodon) Dengan Menggunakan Vaksin Hidup dan Vaksin Mati Serta Gambaran Histologinya*. Balai Penelitian Perikanan Air Payau Jepara. 291-302 hal.
- Takeuchi, T., S. Satoh and T. Watanabe. 1983. Requirement of *Tilapia nilotica* for essential fatty acid. *Bull. Japan. Soc. Scie. Fish.*, 49:1127-1134.

- Van de Braak, C.B.T., R. Faber and J.H. Boon. 1996. Cellular and Humoral Characteristics of *Penaeus monodon* Fab. Haemolymph. *Comparative Haematology International*. Netherlands. p.194-203.
- Van de Braak, K. 2002. *Hemocytic Defence in Black Tiger Shrimp {Penaeus monodon}*. *Disertasi*, Wageningen University, Wageningen Institute of Animal Science, Wageningen, Netherlands.
- Verschuere L. Rombaut G, Sorgeloos P, Verstraete W. 2000. Probiotic bacteria as biological control agents in aquaculture. *Microbial Mol Biol rev* 64:655-671.
- Vivi, E.H. 2005. *Manajemen Pemberian Pakan Ikan. Program Studi Budidaya Perairan Jurusan Perikanan Fakultas Perikanan Dan Ilmu Kelautan*. UNDIP. Semarang.
- Volk, W.A. and Wheeler, 1988. *Mikrobiologi Dasar*. Eds Markham. Penerbit Erlangga Jakarta.
- Wibawa, P.J., 2005, Eksplorasi Potensi Minyak Ikan Layang sebagai Sumber Bahan Baku Industri Non-Pangan Baru di Indonesia. *Jurnal MIPA*. 28(5). hal.202-208.
- Wyban, J.A. dan Sweeny, J.N. 1999. *Intensive Shrimp Production Technology. The Oceanic Institute Macapuu Point*. Honolulu, Hawaii, USA. 158 pp.
- Wyban, J.A dan Sweeney, J. 1991 *Intensif Shrimp Production Tecnology*. Honolulu Hawaii, USA.
- Xincai, C., Yongquan, S., 2001. *Shrimp Culture*. China Internasional Training Course on Technology of Marineculture (Precious Fishes). China : Yiamen *Municipal Sciense & Technology Commission*.hlm.107-113.
- Yustianti, Ibrahim MH, Ruslaini. 2013. Pertumbuhan dan Sintasan Larva Udang Vaname (*Litopenaeus vannamei*) Melalui Substitusi Tepung Ikan dengan Tepung Usus Ayam. *Jurnal Mina Laut Indonesia* 1(1) : 93-103.