

DAFTAR PUSTAKA

- Akbar, S dan Sudaryanto. 2001. Pembenihan dan Pembesaran Ikan Kerapu Bebek. Penebar Swadaya, Jakarta.104 hal.
- Amiruddin, H., R. K. Dongoran, R. Nurhadi, dan L. Darto. 2012. Manajemen Induk Ikan Kerapu Tikus (*Cromileptes altivelis*) sebagai Upaya Optimalisasi Produksi Telur Berkualitas. Balai Budidaya Laut Ambon.
- Aslianti, T, B. Slamet dan G.S. Prasetyo. 2003. Aplikasi Budidaya Ikan Kerapu Bebek (*Cromileptes altivelis*) di Teluk Ekas Kabupaten Lombok Timur. Badan Riset Kelautan dan Perikanan, Jakarta
- Balai Budidaya Air Payau. 2012. Petunjuk Teknis Produksi Benih Ikan Kerapu Hybrid Cantang. Balai Budidaya Air Payau.Situbondo. 58 hal.
- Balai Karantina Ikan, Pengendalian Mutu dan Keamanan Hasil Perikanan Kelas I Surabaya II. 2009. Laporan Pemantauan Tahun 2011. Surabaya
- Balai Uji Standarisasi Karantina Ikan. 2011. Prosedur Pemeriksaan Virus. Jakarta
- Balai Uji Standarisasi Karantina Ikan. 2009. Petunjuk Teknis Pemeriksaan Virus. Jakarta
- Bovo, G., Gustinelli, A., Quaglio, F., Gobbo, F., Panzarin, V., Fusaro, A., Mutinelli, F., Fioravanti, M.L., 2011. Viral encephalopathy and retinopathy outbreak in freshwater fish farmed in Italy. Dis. Aquat. Org. 96, 45–54.
- Chi, S. C., B. J. Lo, and S. C. Lin. 2001. Characterization of Grouper Nervous Necrosis Virus (GNNV). Journal of Fish Diseases, 24, 3-13.
- Chi, S. C. 2006. Piscine Nodavirus Infections in Asia. First International Symposium on Viral Nervous Necrosis of Fish International Conference Center, Hiroshima, November 28 to December 1, 2006. 67
- Chinchar, V.G., Hyatt, A., Miyazaki, T., Williams, T., 2009. Family Iridoviridae: poor viral relations no longer. Current Topics in Microbiology and Immunology 328, 123–170
- Departemen Pertanian. 1999. Pemeliharaan Kerapu Bebek. Direktorat Jenderal Perikanan.
- Evalawati., M. Meiyana, dan T.W. Aditya. 2001. Biologi Kerapu, Pembesaran Kerapu Bebek dan Kerapu Macan di Keramba Jaring Apung. Ditjenkan. BBL Lampung. Hal 3-6.

- Giri, N.A. 2001. Pembenuhan ikan kerapu batik (*Epinephelus microdon*) sebagai upaya penyediaan benih untuk pengembangan budidaya laut. *Warta penelitian perikanan Indonesia*, 7(1):3.
- Ghufran,H. 2010. Membudidayakan Gurami. Lily Publisher. Yogyakarta.
- Grove, S., Faller, R., Soleim, K.B., Dannevig, B.H., 2006a. Absolute quantitation of RNA by a competitive real-time RT-PCR method using piscine nodavirus as a model. *J. Virol. Methods* 132, 104–112.
- Harikrishnan, R., Balasundaram, C., Heo, M.-S., 2010. Molecular studies, disease status and prophylactic measures in grouper aquaculture: Economic importance, diseases and immunology. *Aquaculture* 309, 1–14.
- Harikrishnan, R., Balasundaram, C., Heo, M.-S., 2011. Fish health aspects in grouper aquaculture. *Aquaculture* 320, 1–21.
- Jastrow. 1998. Technique of Specimen Preparation For Scanning Electron Microscopy. Dept. of Anatomy and Cell Biology, Johannes Gutenberg University, 55099 Mainz, Germany. <http://www.uni-mainz.de/FB/Medizin/Anatomie/workshop/EM/eigeneEM>.
- Johnny, F. D. Roza, dan I. Mastuti. 2010. Aplikasi Imunostimulan untuk Meningkatkan Imunitas Non-Spesifik Ikan Kerapu Macan, *Epinephelus fuscoguttatus* terhadap Penyakit Infeksi di Hatcheri. *Prosiding Forum Inovasi Teknologi Akuakultur*, hal. 945-949.
- Keputusan Menteri Kelautan Dan Perikanan Republik Indonesia Nomor Kep.38/Men/2012. Pelepasan Ikan Kerapu Cantang, Jakarta
- Koesharyani, I., D. Roza., K. Mahardika, F. Jhonny, Zafran, dan K. Yuasa. 2001. Penuntun Diagnosa Penyakit Ikan II. Penyakit Ikan Laut dan 68 Krustacea di Indonesia. Balai Penelitian Perikanan Laut Gondol-Singaraja. 49 pp.
- Krasnov, A., Timmerhaus, G., Schiøtz, B.L., Torgersen, J., Afanasyev, S., Iliev, D., Jørgensen, J., Takle, H., Jørgensen, S.M., 2011a. Genomic survey of early responses to viruses in Atlantic salmon, *Salmo salar* L. *Molecular Immunology* 49, 163–174 Kurita, J., Nakajima, K., 2012. Review: Megalocytiviruses. *Viruses* 4, 521–538.
- Lee, K. W., S.C. Chi, and T. M. Cheng. 2002. Interference of The Life Cycle of Fish Nodavirus With Fish Retrovirus. *Journal of General Virology*, 83, hal.2469-2474.
- Lin, C.S., Lu, M.W., Tang, L., Liu, W., Chao, C.B., Lin, C.J., Krishna, N.K., Johnson, J.E., Schneemann, A., 2001. Characterization of virus-like

particles assembled in a recombinant baculovirus system expressing the capsid protein of a fish nodavirus. *Virology* 290, 50–58.

Munday, B. L., K. Kwang, and N. Moody. 2002. Betanodavirus Infections of Teleost Fish: a review. *J. Fish Dis.*, 25, 127–142.

Nakai, T., Mori, K., Sugaya, T., Nishioka, T., Mushiake, K., Yamashita, H., 2009. Current knowledge on viral nervous necrosis (VNN) and its causative betanodaviruses. *Isr. J. Aquacult. Bamid.* 61, 198–207.

Nguyen, H. D., K. Mushiake, T. Nakai and K. Muraga, 1997. *Tissue distribution of striped jack nervous necrosis virus (SJNNV) in adult striped jack*, Faculty of Applied Biological Science, Hiroshima University. Higashihiroshima 739. Japan.

Nishizawa, T., K. Mori, M. Furuhashi, T. Nakai, I. Furusawa, and K. Muroga. 1995. Comparison of The Coat Protein Genes of Five Fish Nodaviruses, the Causative Agents of Viral Nervous Necrosis in Marine Fish. *Journal of General Virology*, 76, 1563-1569.

Nybakken, J.W., 1988. *Biologi Laut: Suatu Pendekatan Ekologi*. Gramedia, Jakarta.

Oh, M. J., W. S. Kim, H. G. Seo, H. J. Gye, and T. Nishizawa. 2012. Change in Infectivity Titre of Nervous Necrosis Virus (NNV) in Brain Tissue of Sevenband Grouper, *Epinephalus fasciatus thunberg*, with Poly(I:C) Administration. *Journal of Fish Diseases*.

OIE. *Manual of Diagnostic Tests for Aquatic Animals* 2013

Pusat Karantina Ikan, 2008. *Metode Standar Pemeriksaan HPIK Golongan Viral Nervous Necropsi (VNN)*. Penerbit Puskari. Jakarta

Pusat Karantina Ikan, 2010. *Pengambilan Contoh Media Pembawa Hidup Air Tawar/Payau/Laut*. Penerbit Puskari. Jakarta

Pusat Karantina Ikan, 2014. *Surat Keputusan Cara Pengambilan Contoh Media Pembawa Hidup Air Tawar/Payau/Laut*. Penerbit Puskari. Jakarta

Subyakto, S & S. Cahyaningsih, 2003. *Pembenihan Kerapu skala rumah tangga*. Agromedia Pustaka. 62 hal.

Sudirman, H., Karim, M. Y. 2008. *Ikan Kerapu. Biologi, Eksploitasi, Manajemen dan Budidaya*. Jakarta: Yarsif Watampone. hlm. 9

Sumantadinata, K. 2003. *Pendederan Kerapu Bebek, Modul : Pemeliharaan Larva sampai Benih*. Bidang Budidaya Ikan Program Keahlian Budidaya Ikan Air Laut. 7, 12-13 hal.

Surat Peraturan Menteri Kelautan dan Perikanan No.26/Men/2013

- Sugama, K., Tridjoko, B. Slamet, S. Ismi, E. Setiadi, dan S. Kawahara. 2001. Petunjuk teknis produksi benih ikan kerapu bebek, *Cromileptes altivelis*. Balai Riset Budidaya Laut Gondol, Pusat Riset dan Pengembangan Eksploirasi laut dan Perikanan Departemen Kelautan dan Perikanan dan Japan International Cooperation Agency. 40hlm.
- Sommerset, I., Nerland, A.H., 2004. Complete sequence of RNA1 and subgenomic RNA3 of Atlantic halibut nodavirus (AHNV). *Dis. Aquat. Org.* 58, 117–125.
- Thiery, R., J. Cozien, J. Cabon, F. Lamour, M. Baud, and A. Schneemann. 2006. Induction of a Protective Immune Response Against Viral Nervous Necrosis in the European Sea Bass *Dicentrarchus labrax* by Using Betanodavirus Virus-Like Particles. *Journal of Virology*, Vol. 80, No. 20, p. 10201–10207.
- Timmreck, Thomas C. (2004) *Epidemiologi Suatu Pengantar*. Jakarta: EGC
- Yang, H. L. 2007. Fish Oral Vaccine That Can Induce Protective Immunity at the Early Post-Larvae Stage of Grouper. Institute of Biotechnology. Volume 1-07.
- Yoshimitsu, T. H., Eda, and K. Hiramatsu. 1986. Groupers Final Report Marine Culture Research and Development in Indonesia. ATA 192, JICA. p.103-129.
- Yuasa, K., D. Roza, I. Koesharyani, F. Johnny, and K. Mahardika. 2000. General Remarks on Fish Disease Diagnosis. Pp. 5-18. Textbook for the Training Course on Fish Disease Diagnosis. Lolitkanta-JICA Booklet No.12.
- Yuasa, K., I. Koesharyani, D. Roza, F. Jhonny, and Zafran. 2001. Manual for PCR Procedure; Rapid diagnosis on Viral Nervous Necrosis (VNN) in Grouper. Lolitkanta-JICA Booklet No. 13, 35 pp.
- Yukio, M., Leobert d. De la peña and Erlinda R. Cruz-lacierda, 2007. *Susceptibility of Fish Species Cultured in Mangrove*, Southeast Asian Fisheries Development Center (SEAFDEC) (Tigbauan 5021, Iloilo, Philippines).
- Zafran, I. Koesharyani, F. Johnny, K. Yuasa, T. Harada, and K. Hatai. 2000. Viral Nervous Necrosis in Humpback Grouper *Cromileptes altivelis* Larvae and Juveniles in Indonesia. *Fish Pathology*, 35 (2): 95-96.