

DAFTAR PUSTAKA

- Amersham Pharmacia Biotech, 2000. *Protein Purification Hand Book*, New York: Amersham Pharmacia Biotech. Pp 10-20.
- Anderson, C., 200. *Production and Delivery of Recombinant Subunit Vaccine*. Stockholm. Royal Institute of Technology. Departement of Biotechnology. 68p.
- Aoki, T., Hirono, I., Kurokawa, K., Fukuda, H., Nahary, R., Eldar, A., Davison, A.J., Waltzek, T.B., Bercovier, H. and Hedrick, R.P., 2007. Genome Sequences of three Koi herpesvirus Isolates Representing the Expanding Distribution of an Emerging Disease Threatening Koi and Common Carp Worldwide. *Journal of Virology* 81:5058-5065.
- Bandin, I., and Dopazo, C. P., 2011. Host Range, Host Specificity and Hypothesized Host Shift Events among Viruses of Lower Vertebrates. Review. *Veterinary Research*, hal. 42-67.
- Bergmann, S.M., Kempter, J., Sadowski, J. and Fichtner, D., 2006. First Detection, Confirmation and Isolation of *Koi Herpesvirus* (KHV) in Cultured Common Carp (*Cyprinus carpio* L.) in Poland. *Bulletin of the European Association of Fish Pathologists* 26:97-104.
- Bratawidjaja, G. K. Dan Rengganis, I., 2009. *Imunologi Dasar*. Jakarta: Balai Penerbit fakultas Kedokteran Indonesia, Hal. 150-155.
- Bretzinger, A. T., Fischer-Scherl, R., Hoffmann, and Truyen, U., 1999. Mass Mortalities in Koi, *Cyprinus carpio*, Associated with Gill and Skin Disease. *Bull. Eur. Assoc. Fish Pathol*, No. 19, hal. 182-185.
- Brown, T. A., 1990. *Gene Cloning : An Introductory 2nd Edition*. Chapman and Hall. London.
- Costes B, Raj VS, Michel B, Fournier G and others., 2009. The Major Portal of Entry of *Koi Herpesvirus* in *Cyprinus carpio* is the Skin. *J Virol* 83: 2819–2830.
- Crane, M., Sano., and Komar, C., 2004. *Infection with Koi herpesvirus Disease Card*, Bangkok :NACA.
- Davison AJ, Eberle R, Ehlers B, Hayward GS, McGeoch DJ, Minson AC, 2009. The order *Herpesvirales*. *Arch Virol*.154:171–7



- Emini E. A, Hughes J. V, Perlow D.S, and Boger J., 1985. Induction of Hepatitis A virus-neutralizing Antibody by A Virus-Spesific Syntetic Peptide. *J Virol.* 55. 836-839.
- Fusianto, C. K., 2013. Kloning Gen, Ekspresi dan Purifikasi Protein ORF25 *Koi herpesvirus* sebagai Kandidat Vaksin. Thesis: Universitas Gadjah Mada.
- Gerhardt, P., Murray, R. G. E., Wood, W. A., and Krieg, N. R.1994. Method for General and Molerculer Bacteriology. American Society for Microbiology. Washington, D. C.
- Gilad, O., Yun, S., Andree, K.B., Adkison, M.A., Lotkin, A., Bercovier, H., Eldar, A. and Hedrick, R.P., 2002. Initial Characteristics of *Koi herpesvirus* and the Development of a Polymerase Chain Reaction Assay to Detect the Virus in *Koi, Cyprinus carpio*. *Diseases of Aquatic Organisms* 48:101-108.
- Gilad, O., Yun, S., Andree, K.B., Adkison, M.A., Way, K., Willits, N.H., Bercovier, H. and Hedrick, R.P., 2003. Molecular Comparison of Isolates of an Emerging, *Koi herpesvirus*, and the Effect of Water Temperature on Mortality of Experimentally-Infected Koi. *Journal of General Virology* 64: 2661-2668.
- Gunimaladevi, I., Kono, T., Venugoval, M. N., and Sakai, M. 2004. Detection of *Koi herpesvirus* in Common Carp, *Cyprinus carpio L.*, by Loop-Media Isothermal Amplification. *Journal of Fish Disease.* 27: 583-589.
- Hartman, K. H., Yanong, R. P. E., Petty, B. D., Floyd, R. T Riggs, A. C., 2008. *Koi herpesvirus (KHV) Disease*, University of Florida
- Haenen, O.L.M., Way, K., Bergman, S.M. and Ariel, E. 2004. the Emergence of *Koi herpesvirus* and its Significance to European Aquaculture. *Bulletin of the European Association of Fish Pathologists* 24:293-307.
- Hedrick, R.P., Gilad, O., Yun, S., Spandenberg, J.V., Marty, G.D., Nordhausen, R.W.,Kebus, M.J., Bercovier, H. and Eldar, A., 2000. A *Koi herpesvirus* Associated with Mass Mortality of Juvenile and Adult Koi, a Strain of Common Carp. *Journal of Aquatic Animal Health* 12:44-57.
- Hedrick, R.P., Thomas, B. and McDowell, T.S. Waltrek, T B., Kelley, G. O., and Adkinson, M A., 2005. Initial Isolation and Characterization of a Herpes-like Virus (KHV) from Koi and Common Crap. *Bull. Fish. Res. Agen Suplement No.2.1-7.*
- Hoffmann, D. Bayer, W. Wildner, O., 2007. In Situ Tumor Vaccination with Adenovirus Vectors Encoding Measles Virus Fusogenic membrane Proteins and Cytokines. *World Journal of gastroenterology.* 13 (22): 3063-3070.



- Ilouze, M., Dishon, A. and Kotler, M., 2006. *Characterization of a Novel Virus Causing a Lethal Disease in Carp and Koi. Microbiology and Molecular Biology Reviews* 70:147-156.
- Jin-lin, Y., hong-ling, W., Shu-xin, W., Peng, Y., Kang-tai, L., and Cheng-yu. J., 2010. High Level Expression, Purification and Characterization of Codon Optimized Recombinant Hemagglutinin 5 Proteins in Mammalian Cell. *Chinese Med J.*, 123, 1073-1077.
- Karplus, P.A. and Schulz, G.E., 1985. Prediction of Chain Flexibility in Protein. *Naturwissenschaften*. 72. 212-213.
- Kolaskar A.S, and Tongaonkar P.C., 1990. A Semi-Empirical Method for Prediction of Antigenic Determinants on Protein Antigens. *FEBS Lett.* 276
- Lodge, J., Lund, P., and Minchin, S., 2007. *Gene Cloning Principles and Applications*. Taylor and Francis group. 462p
- Lorensen, N., and La Patra, S.E., 2005. DNA vaccines for Aquacultured Fish. *Rev.sci.tech.Off.int.Epiz.* 24:201-213.
- Mc Pherson, M., and La Patra, S. E., 2005. DNA Vaccines for Aquacultured Fish. *Rev.sci.tech.Off. Int.Epiz*, 24 : 201-213.
- Mettenleiter T.C., Klupp B.G., and Franzow H., 2009. Herpesvirus Assembly: an update. *Virus Res.*, 143. 222-234.
- Michel B, Leroy B, Stalin Raj V, Lieffrig F and others., 2010. The Genome of Cyprinid Herpesvirus 3 Encodes 40 Proteins Incorporated in mature virions, *J Gen Virol* 91: 452–462.
- Murwantoko., 2009. Cloning ORF2 Membrane Protein of *Koi herpesvirus* Lake Toba. Indonesian Isolate. *HAYATI Journal of Biosciences*.16, 49-53.
- Neukirch M, Kunz U., 2001. Isolation and Preliminary Characterization of Several Viruses from Koi (*Cyprinus carpio*) Suffering Gill Necrosis and Mortality, *Bulletin of the European Association of Fish Pathologists*, 21, 125–35.
- Novagen, 2003. pET System Manual. <http://novagen.com> (tanggal aksel 12 Agustus 2014)
- Perelberg, A., Smirnov, M., Hutoran, M., Diamani, A., Bejerano, Y. and Kotler, M. 2003. Epidemiological Description of a New Viral Disease Afflicting



- Cultured *Cyprinus carpio* in Israel. *Israeli Journal Aquaculture-Bamidgeh* 55, 5-12.
- Philips, T., 2009. Essentials for Cloning and Studying Genes, www.about.com. (tanggal akses 12 Agustus 2014).
- Pikarsky, E., Ronen, A., Abramowitz, J., Levavi-Sivan, B., Hutoran, M., Shapira, Y., Steinitz, M., Perelberg, A. Soffer, D., and Kotler, M., 2004. Pathogenesis of Acute Viral Disease Induced in Fish by Carp Interstitial nephritis and Gill Necrosis Virus. *Journal of Virology*. 78(17): 9544-9551.
- Ronen, A., Perelberg, A., Abramowitz, J., Hutoran, M., Tinman, S., Bejerano, I., Steinitz, M. and Kotler, M. 2003. Efficient Vaccine Against the Virus Causing a Lethal Disease in Cultured *Cyprinus carpio*, *Vaccine* 21, 4677-4684.
- Saha, S., Bhasin, M., Ragnava, G. P. S., 2005. Bcipep : A Database of B-cell epitopes. *BMC Genomics*. 6 :79.
- Sambrook, J., and Russel D. W., 2001. *Molecular Cloning : A laboratory manual*. New York: CSHL press.
- Setyowati, D. N., 2011. Kloning Gen, Ekspresi dan Purifikasi Protein ORF124 *Koi herpesvirus* sebagai Kandidat Vaksin. Thesis: Universitas Gadjah Mada.
- Sezonov, D. J. P., Joseleau-Petit., and Richard D., 2007. *Escherichia coli* Physiology in Luria-Bertani Broth, *J. Bacteriology*. 189 : 8746-8749.
- Sorensen, H. P., and Mortensen, K. K., 2004. Advanced Genetic Strategies for Recombinant Protein Expression in *Escherichia coli*. *Journal of Biotechnology*. 115.113-128
- Sridhar Rao, P., 2006. *Vaccine*, <http://www.microrao.com/micronotes/vaccines.pdf>. (tanggal akses 12 Agustus 2014).
- Srisuvan, T., Patchimasiri, T., and Tangdee, S., 2010. Differentiation of *Cyprinid herpesvirus Type-3* Genotypes Collected from Bangkok, Thailand in 2009. *Thai_NIAH ejournal*. <http://www.dld.go.th/niah>., 5. 52-54.
- Stamataki, Z., Costes, S., Evans, M. J., Wininger, M., Crawford, K., Dong, C., Fong, Y., Chien, D., Abrignani, S., Balfe, P., Rice, C. M. McKeating, J.A., Houghton, M., 2007. Hepatitis C Virus Envelope Glycoprotein Immunization of Rodent Elicit Cross-Reactive Neutralizing Antibodies. *Vaccine*. No.25, hal 7773-77784.



- Sunarto, A., Rukyani, A., and Itami, T. 2005. Indonesian Experience on the Outbreak of *Koi herpesvirus* in koi and Carp (*Cyprinus carpio*). Bull. Fish.Res. Agen. Supplement No. 2. 15-21.
- Sunarto, A., Mc Coll, K. A., Crane, M. St. J., Sumiati, T., Hyatt, A. D., barnes, A. C., and Walker, P. J., 2011. Isolation and Characterization of *Koi herpesvirus* (KHV) from Indonesia: Identification of a New Genetic Lineage. Journal of Fish Disease, No. 34. hal. 87-101.
- Virella, G., 2007. Medical Immunology. New York: Informa Healthcare USA. hal. 480.
- Waltzek, T.B., Kelly, G.O., Stone, D.M., Way, K., Hanson, L., Fukuda, H., Hirono, I., Aoki, T., Davison, A.J. and Hedrick, R.P., 2005. *Koi herpesvirus* Represents a Third Cyprinid Herpesvirus (Cyhv-3) in the Family *Herpesviridae*. *Journal of General Virology* 86, 1659-1667.
- Waltzek TB, Kelley GO, Alfaro ME, Kurobe T, Davison AJ, Hedrick RP., 2009. Phylogenetic Relationships in the Family *Alloherpesviridae*. *Dis Aquat Organ*. 84, 179–94.
- Wong, D. M. S., 2006. The ABC's of Gene Cloning. New York: Springer., Pp69-74.
- Yasumoto, S., Kazuya, Y., Yasuda, M., Yoshimura, T. and Miyazaki, T., 2006. Oral Immunization of Common Carp with a Liposome Vaccine Fusing *Koi herpesvirus* Antigen. *Fish Pathology* 41, 141-145.
- Yildir, C. Osnan, I. And Kirdar B., 1998. Optimization of Starting Time and Period of Induction and Inducer Concentration in the Production of the Restriction Enzyme EcoR1 from Recombinant *Escherichia coli* 294. *Turk J Chem*. 22. 221-226.
- Yuwono, T., 2006. *Bioteknologi Pertanian*, Yogyakarta: Gadjah Mada University Press, 284.