

DAFTAR PUSTAKA

- Abdelrahman SS, Rihan EEM, Almotairy HM, Jassem AHA, Al-Blowi M. 2013. SeroVirological studies on Newcastle Disease and Avian Influenza in Farmed Ostriches (*Struthio camelus*) in Saudi Arabia. *J World's Poult Res* 3 (2): 38-42
- Alam, S.A.A. (2013). Characterization of Pathogenic mutations in Kinase domain [Thesis]. Master Science in Bioinformatics. Institute of Biomedical Technologi. University of Tampere. Finland.
- Alexander, D. 2000. Newcastle Disease and Other Avian Paramyxoviruses. *Rev. sci. tech. Off. int. Epiz.*, 19 (2): 443-462.
- Alexander DJ. 2001. Newcastle Disease. The Gordon Memorial Lecture. *Br.Poult.Sci* 42 : 117 – 128.
- Alexander D.J. and Senne, D.A. 2008, Newcastle Disease and Other Avian Paramyxoviruses. In: *A Laboratory Manual for the Isolation, Identification and Characterization of Avian Pathogens*, Dufour-Zavala L. (Editor in Chief) Swayne D.E., Glisson J.R., Jackwood M.W., Pearson J.E., Reed W.M, Woolcock P.R., 4th ed., American Association of Avian Pathologists, Athens, GA, 135–141.
- Al-Garib, S. O., Gielkens, A.L.J., Gruys, E., and Koch, G., 2003. Review of Newcastle disease virus with particular references to immunity and vaccination. *World's Poultry Science Journal* vol.59: 185-200.
- Arifin MA, Salim SH, Mel M, Abdul Karim MI, Hassan SS. 2011. Optimization of Newcastle Disease Virus Production in T-flask. *Proceedings of the 2nd International Conference on Biotechnology Engineering, ICBioE'11* May 17-19, Kuala Lumpur, Malaysia, ISBN: 978-983-42978-3-1.
- Ashraf, A., and Shah, M. S. 2014. Newcastle Disease: Present status and future challenges for developing countries. *African Journal of Microbiology Research*, 8 (5): 411-416.
- Battisti, A.J., Meng, G., Winkler, D. C., McGinnes, L. W., Plevka, P., Steven, A. C., Morrison, T. G., and Rossmann, M. G., 2012. Structure and assembly of a paramyxovirus matrix protein. *PNAS* vol. 109, no. 35: 13996-14000.

- Bhaiyat, M.I., Ochiai, K., Itakura, C., Islam, M.A. and Kida, H. 1994. Brain lesions in young broiler chickens naturally infected with a mesogenic strain of Newcastle disease virus. *Avian Pathol.* 23: 693–708.
- Chambers, P., Millar, N.S., Platt, S.G., Emmerson, P.T., 1986. Nucleotide sequence of the gene encoding the matrix protein of Newcastle disease virus. *Nucleic Acids Res.* 14 (22), 9051–9061.
- Chen, L., Gorman, J. J., McKimm-Breschkin, J., Lawrence, L. J., Tulloch, P. A., Smith, B. J., Colman, P. M., and Lawrence, M. C. (2001). The structure of the fusion glycoprotein of Newcastle disease virus suggests a novel paradigm for the molecular mechanism of membrane fusion. *Structure* 9, 255–266.
- Choppin, P.W. and Compans, R.W. 1975. Reproduction of paramyxoviruses. In H. Fraenkel Conrat and R.R. Wagner (Ed.), *Comprehensive Virology* Vol. 4 (pp. 95–178). New York: Plenum Press.
- Chukwudi, O.E., Chukwuemeka, E.D. and Mary, U. 2012. Newcastle disease virus shedding among healthy commercial chickens and its epidemiological importance. *Pak. Vet. J.*, 32(3): 354-356.
- Creelan, J.L., Graham, D.A. and McCullough, S.J. 2002. Detection and differentiation of pathogenicity of avian paramyxovirus serotype 1 from field cases using one-step reverse transcriptase-polymerase chain reaction. *Avian Pathol.*, 31 (5), 493–499.
- Dawson, R.M.C. 1959, *Data for Biochemical Research*, Oxford: Clarendon Press.
- Dhaygude VS, Sawale GK, Chawak MM, Bulbule NR, Moregaonkar SD, Gavhane DS. 2017. Molecular characterization of velogenic viscerotropic Ranikhet (Newcastle) disease virus from different outbreaks in desi chickens. *Vet World*;10:319-23.
- De Leeuw, O.S., Hartog, L., Koch, G. and Peeters, B.P.H. 2003. Effect of fusion protein cleavage site mutants revert to virulence after one passage in chicken brain. *J. Gen. Virol.* 84: 475-484
- Dortmans, JCFM, Koch, G, Rottier PJM, Peeters, BPH. 2011. Virulence of Newcastle disease virus: what is known so far?. *Veterinary Research*.42: 122.
- FAO. 2002. *FAO Animal Production and Health Paper- 154. Food and Agriculture Organization of United Nation.* Rome.

- Fenner, F. J., Gibbs, E., Paul J. Murphy, A., F., Root, R., Studdert, M. J., and White, D. O. (1995). *Virology Veteriner*. Sydney: Academic Press. inc.
- Ganar, K., Das, M., Sinha, S., & Kumar, S. 2014. *Newcastle disease virus: Current status and our understanding*. Elsevier.
- Garten, W., W. Berk, Y. Nagai, R. Rott, and H. D. Klenk. 1980. Mutational changes of the protease susceptibility of glycoprotein F of Newcastle disease virus: effects on pathogenicity. *J Gen Virol* 50:135-47.
- Glickman, R.L., Syddall, R.J., Iorio, R.M., Sheehan, J.P., Bratt, M.A., 1988. Quantitative basic residue requirements in the cleavage-activation site of the fusion glyco-protein as a determinant of virulence for Newcastle disease virus. *J. Virol.* 62 (1),354–356.
- Hadipour, MM, Habibi GH, Golchin P, Hadipourfard MR, Shayanpour N . 2011. The Role of Avian Influenza, Newcastle Disease and Infectious Bronchitis Viruses during the Respiratory Disease Outbreak in Commercial Broiler Farms of Iran. *International J. Anim. Vet. Advances* 3(2):69-72.
- Hamaguchi M, Yoshida T, Nishikawa K, Naruse H, Nagai Y.1983. Transcriptive complex of Newcastle disease virus. I. Both L and P proteins are required to constitute an active complex. *Virology*.; 128 (1):105–17. PMID: 6683907.
- Hamaguchi M, Nishikawa K, Toyoda T, Yoshida T, Hanaichi T, Nagai Y.1985. Transcriptive complex of Newcastle disease virus. II. Structural and functional assembly associated with the cytoskeletal framework. *Virology*.; 147(2):295–308. PMID: 3907120.
- Irvine, R. M. 2013. *Recognising avian notifiable disease 2. Newcastle Disease*. *Farm Animals* vol. 35: 518-523.
- Kartika Arma A., 2016. *Eksplorasi Preferensi Masyarakat terhadap Pemanfaatan Ayam Lokal di Kabupaten Bogor Jawa Barat dan Wonosobo Jawa Tengah*. IPB, Pascasarjana.
- Kattenbelt, J.A., Stevens, M.P., Gould, A.R., 2006. Sequence variation in the Newcastle disease virus genome. *Virus Res.* 116 (1–2), 168–184.
- Kencana, GAY. 2012. *Penyakit Virus Unggas*. Udayana University Press. Denpasar.
- Keusch, Pappaioanou, Gonzales, M. C., Scott, K. A., and Tsai, P. 2009. *Sustaining Global Surveillance and Response to Emerging Zoonotic Disease*. National Academies Press, 165 pp: 165-186.

- Kho, C.L., Tan, W.S. and Yusoff, K. 2001. Production of the nucleocapsid protein of Newcastle disease virus in *Escherichia coli* and its assembly of into ring-like and nucleocapsid-like particles. *Journal of Microbiology* (in press).
- Krishnamurthy, S., and Samal, S. K. 1998. Nucleotide sequences of the trasler, nucleocapsid protein gene and intergenic region of Newcastle Disease virus strain Beaudette C and intergenic of the entire genome sequence. *J.Gen.Virol*, 79, 2419-2424.
- Lamb, R. A. and Kolakofsky, D. 1996. Paramyxoviridae : the viruses and their replication. In *Fields Virology*, 3rd edn, pp. 1177±1203. Edited by B. N. Fields, D. M. Knipe & P. M. Howley. Philadelphia : Lippincott Raven.
- Levy, R., Spira, G. and Zakay-Rones, Z. 1975 Newcastle disease virus pathogenesis in the respiratory tract of local or systemic immunized chicken. *Avian Dis.*, 19(4): 700-706.
- Li, J.K., Miyakawa, T. and Fox, C.F. 1980. Protein organization in Newcastle disease virus as revealed by perturbant treatment. *Journal of Virology*, 34, 268– 271.
- Liu, X., Wan, H., Ni, X., Wu, Y., dan W.B, L. 2003. Pathotypical and geotypical characterization of strain of Newcastle disease virus isolated from outbreaks in chicken and goose flocks in some regions of China during 1985-2001. *Arch. Virol*, 148, 1387-1403.
- Liu, Y.P., Q. Zhu and Y. Yao, 2006. Multiple maternal origins of chickens: Out of the Asian jungle fowls. *Mol. Phylogenet. Evol.*, 38: 112-119.
- Madadgar, O., Karimi, V., Nazaktabar, A., Kazemimanesh, M., Ghafari, M., Dezfoull, S. A., & Hojjati, P. 2013. A study of Newcastle disease virus obtained from exotic caged birds in Tehran between 2009 and 2010. *Avian Pathol*, 42(1): 27-31.
- Mahardika IGNK, Astawa INM, Kencana GAY, Suardana IBK dan Sari TK. 2015. *Teknik Lab Virus*. Udayana University Press. Denpasar.
- Mase, M., K. Imai K, Y. Sanada, N. Sanada, N. Yuasa, and T Imada. 2002. Phylogenetic analysis of Newcastle disease virus genotypes isolated in Japan. *Jurnal of Clinical Micro-biology*. 40(10): 3826–30.
- Mayo, M. 2002. A summary of taxonomic changes recently approved by ICTV. *Arch. Virol*, 147, 1655-1663.
- Mazlan LF, Bachek NF, Mahamud SNA, Idris LH, Wei TS, Omar AR, Noor MHM. 2017. The positive expression of genotype VII Newcastle disease virus

- (Malaysian isolate) in Japanese quails (*Coturnix coturnix japonica*), *Veterinary World*, 10(5): 542-548.
- McGinn, S., & Gut, I. 2012. DNA Sequencing - spanning the generations. *New Biotechnol.*
- McGinnes LW and Morrison TG. 2006. Inhibition of Receptor Binding Stabilizes Newcastle Disease Virus HN and F Protein-Containing Complexes. *Journal of Virology*, 80(6): 2894–2903.
- Miller, P. J., King D. J., Afonso, C. L., Suarez D.L., 2007. Antigenic Differences Among Newcastle Disease Virus Strain of Different Genotypes Used in Vaccine Formulation affect Viral Shedding after a Virulent Challenge. *Vaccine*, 25: 7238-7246.
- Miller, P. J., Afonso, C. L., Spackman, E., Scott, M. A., Pedercen, J. C., Senne, D. A., Fuller, C. M. 2010. Evidence for a New Avian Paramyxovirus Serotype 10 Detected in Rockhopper Penguins from the Falkland Islands. *American Society for Microbiology*, 11496-11504.
- Moiseyeva, I.G., Romanov, M. N., Nikiforov, A. A., Sevastyanova, A. A., Semyenova, S. K., 2003. Evolutionary relationship of Red Jungle Fowl and chicken breeds. *INRA, EDP Sciences* 35:403-423.
- Munir M, Abbas M, Khan TA, Zohari S, Berg M (2012a). Genomic and biological characterization of a velogenic Newcastle disease virus isolated from a healthy backyard poultry flock in 2010. *Viol. J.* 9(46):01-11.
- Munir M, Shabbir MZ, Yaqub T, Shabbir MAB, Mukhtar N, Khan MR, Berga M. 2012b. Complete Genome Sequence of a Velogenic Neurotropic Avian Paramyxovirus 1 Isolated from Peacocks (*Pavo cristatus*) in a Wildlife Park in Pakistan. *J. Virol.* 86(23):13113-13114.
- Munir M, Zohari S, Abbas M, Berg M. 2012c. Sequencing and analysis of the complete genome of Newcastle disease virus isolated from a commercial poultry farm in 2010. *Archive Virol.* 157, 765-768.
- Nagai, Y., Klenk, H.D., Rott, R., 1976. Proteolytic cleavage of the viral glycoproteins and its significance for the virulence of Newcastle disease virus. *Virology* 72 (2),494–508.
- Naveen KA, Singh SD, Kataria JM, Barathidasan R, Dhama K 2013. Detection and differentiation of pigeon paramyxovirus serotype-1 (PPMV-1) isolates by RT-PCR and restriction enzyme analysis. *Trop. Anim. Health Prod.* 10:01-06.

- OIE (*Office International des Epizootica*). 2009. Newcastle Disease. Manual of Diagnostic Test and Vaccines for Terrestrial Manual. Pp. 579-589.
- OIE. 2012. Newcastle disease. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals. Chapter 2.3.14. <http://www.oie.int/international-standard-setting/terrestrial-manual/access-online>.
- Okada I., Yamamoto Y., Hashiguchi T., Ito S., Phylogenetic studies on the Japanese native breeds of chickens, *Jap. Poultry Sci.* 21 (1984) 318–329.
- Putri, N., Ernawati, R., Rahmahani, J., Suwarno, and Rantam, F. A., 2017. Fusion Protein of Aminoacid Mutations in Newcastle Disease isolated from Swan Goose Caused Resistance To Infection [Thesis]. Faculty of Veterinary Medicine. Airlangga University
- Pham HM, Konnai S, Usui, T et al (2005) Rapid detection and differentiation of Newcastle disease virus by real-time PCR with melting-curve analysis. *Arch Virol* 150(12):2429–2438
- Pratiwi, R., 2001. Mengenal Metode Elektroforesis. *Oseana*, Vol XXVI, No. 1: 25-31.
- Qiu X, Fu Q, Meng C, Yu S, Zhan Y, Dong L. 2016. Newcastle Disease Virus V Protein Targets Phosphorylated STAT1 to Block IFN-I Signaling. *PLoS ONE* 11(2): e0148560
- Ritter, J. N., Sergel, T., and Morrison, T. G., 1995. Mutational analysis of the Leucine Zipper motif in the Newcastle Disease Virus Fusion Protein. *J. Virol*: 5995-6004
- Rout, S. N., and S. K. Samal. 2008. The Large Polymerase Protein Is Associated with the Virulence of Newcastle Disease Virus. *J Virol* 82:7828-7836.
- Saepulloh, M., dan Darminto. 2005. Kajian Newcastle Disease pada itik dan upaya pengendaliannya. *WARTAZOA*, vol. 15 no. 2.
- Salih, O., Omar, A.R., Ali, A.M. and Yusoff, K. 2000. Nucleotide sequence analysis of the F protein gene of a Malaysian velogenic NDV strain AF2240. *Journal of Molecular Biology, Biochemistry & Biophysics*, 4, 51– 57.
- Samal, S., Khattar, S., Kumar, S., Collins, P., dan Samal, S. 2012. Coordinate deletion of N-glycans from the heptad repeats of the fusion F protein of Newcastle disease virus yields a hyperfusogenic virus with increased replication virulence, and immunogenicity. *J. Virol*, 86(5): 2501-2511.
- Samal, S., Khattar, S. K., Paldurai, A., Palaniyandi, S., Zhu, X., Collins, P. L. and Samal, S. K. 2013. Mutations in the cytoplasmic domain of the Newcastle

disease virus fusion protein confer hyperfusogenic phenotypes modulating viral replication and pathogenicity. *J Virol* 87 , 10083–10093.

- Seal, B.S., King, D.J., Meinersmann, R.J., 2000. Molecular evolution of the Newcastle disease virus matrix protein gene and phylogenetic relationships among the paramyxoviridae. *Virus Res.* 66 (1), 1–11.
- Shim JB, So HH, Won HH, Mo I (2011). Characterization of avian paramyxovirus type 1 from migratory wild birds in chickens. *J. Avian Pathol.* 40(6):565-572.
- Shunlin, H., Wang, T., Liu, Y., Meng, C., Wang, X., Wu, Y., and Liu, X. 2010. Identification of a variable epitope on the Newcastle disease virus hemagglutinin-neuraminidase protein. *J Vet Microbiology*, 140(2): 92-97.
- Kumar S., G. Stecher, K. Tamura. (2016). MEGA7: molecular evolutionary genetics analysis version 7.0 for bigger datasets. *Mol Biol Evol*, 33 pp. 1870-1874.
- Takimoto, T., Taylor, G.L., Crennell, S.J., Scroggs, R.A. and Portner, A. 2000. Crystallization of Newcastle disease virus hemagglutinin - neuraminidase glycoprotein. *Virology*, 270, 208– 214.
- Toyoda, T., Sakaguchi, T., Imai, K., Inocencio, N.M., Gotoh, B., Hamaguchi, M., Nagai, Y., 1987. Structural comparison of the cleavage-activation site of the fusion glycoprotein between virulent and avirulent strains of Newcastle disease virus. *Virology* 158 (1), 242–247.
- Ulfah Maria, Perwitasari D., Jakaria, Muladno, Farajallah A., 2015. Breed determination for Indonesia Local Chicken based on matrilineal evolution analysis. *Int Journal of Poultry Science* 14 (11): 615-621.
- Ullah S, Ashfaq M, Rahman SU, Akhtar M, Rehman A 2004. Newcastle disease virus in the intestinal contents of broilers and layers. *Pak. Vet. J.* 24(1):28-30.
- Xiao, S., Anandan, P., Baibaswata, N., Arthur, S., Eny, E. B., Teguh, Y. P., Siba, K. S. 2012. Complete Genome Sequences of Newcastle Disease Virus Strains Circulating in Chicken Population of Indonesia. *Journal ASM.org*, 5969-5970.
- Xiao .S, Paldurai A, Nayak B, Mirande A, Collins PL, Samal SK. 2013. Complete genome sequence of a highly virulent Newcastle disease virus currently circulating in Mexico. *J. Genome Announcements* 1(1):01-02.
- Yuliana, I.K.W., G.A.Y. Kencana dan I.N. Suartha. 2015. Seroprevalensi penyakit tetelo pada Peternakan Itik dan Pasar Galiran di Kabupaten Klungkung, Bali. *Jurnal Veteriner*, Vol.16 No.3: 383-388.

- Yusoff, K., Millar, N. S., Chambers, P. dan Emmerson, P. T. 1987. Nucleotide sequence analysis of the L gene of NDV: homologies with Sendai and vesicular stomatitis virus. *Nucleic Acids Research* 15, 3961-3976.
- Yusoff, K., and W. S. Tan. 2001. Newcastle disease virus: Macromolecules and opportunities. *Avian Pathology*, 30 (5): 439-455.
- Yusuf, Z. K., 2010. Polymerase Chain Reaction (PCR).
- Zhu, H., Zhang, H., Wang, Y., Ciren, D., Dong, H., Wu, Q., Rehman, M. U., Nabi, F., Mehmood, K., Li, J. 2018. Phylogenetic and Pathotypic Characterization of Newcastle Disease Virus in Tibetan Chicken, China. *Pesq. Vet. Bras.* 38(1): 37-40