

## **A. BIBLIOGRAPHY**

- Abdisa, T., & Tagesu, T. (2017). Review on Newcastle disease of poultry and its public health importance. *Journal Vet ternary Science and Technology*, 8(3), 441.
- Alabsi, A. M., Ali, R., Ideris, A., Omar, A. R., Bejo, M. H., Yusoff, K., & Ali, A. M. (2012). Anti-leukemic activity of Newcastle disease virus strains AF2240 and V4-UPM in murine myelomonocytic leukemia in vivo. *Leukemia research*, 36(5), 634-645.
- Al-Garib, S. O., Gielkens, A. L. J., Gruys, E., Hartog, L., & Koch, G. (2003). Immunoglobulin class distribution of systemic and mucosal antibody responses to Newcastle disease in chickens. *Avian diseases*, 47(1), 32-40.
- Al-Habib, M. F., Murtini, S., Gunawan, A., Ulupi, N., & Sumantri, C. (2020). Polymorphism of CD1B Gene and Its Association with Yolk Immunoglobulin (IgY) Concentration and Newcastle Disease Antibody Titer in IPB-D1 Chicken. *Tropical Animal Science Journal*, 43(3), 197-204.
- Al-Nasser, A., Al-Khalaifa, H., Al-Saffar, A., Khalil, F., Albahouh, M., Ragheb, G, Ragheb., A, Al-Hadda & Mashaly, M. (2007). Overview of chicken taxonomy and domestication. *World's Poultry Science Journal*, 63(2), 285-300.
- Amro, W. A., Al-Qaisi, W., & Al-Razem, F. (2018). Production and purification of IgY antibodies from chicken egg yolk. *Journal of Genetic Engineering and Biotechnology*, 16(1), 99-103.
- Arora, P., Lakhchaura, B. D., & Garg, S. K. (2010). Evaluation of immunogenic potential of 75kDa and 56kDa proteins of newcastle disease virus (NDV).
- Astuti, R. W., Wijayanti, N., & Haryanto, A. (2020). Expression of recombinant fusion protein from local isolate of Newcastle disease virus and antibody response to recombinant fusion protein in broiler chickens post-vaccination. *Journal of the Indonesian Tropical Animal Agriculture*, 45(2), 78-90.
- Bello, M. B., Yusoff, K., Ideris, A., Hair-Bejo, M., Peeters, B. P., & Omar, A. R. (2018). Diagnostic and vaccination approaches for Newcastle disease virus in poultry: The current and emerging perspectives. *BioMed research international*, 2018.
- Brown, V. R., & Bevins, S. N. (2017). A review of virulent Newcastle disease viruses in the United States and the role of wild birds in viral persistence and spread. *Veterinary research*, 48(1), 1-15.

- Carlander, D., Stålberg, J., & Larsson, A. (1999). Chicken antibodies: a clinical chemistry perspective. *Upsala journal of medical sciences*, 104(3), 179-189.
- Cattoli, G., Susta, L., Terregino, C., & Brown, C. (2011). Newcastle disease: a review of field recognition and current methods of laboratory detection. *Journal of veterinary diagnostic investigation*, 23(4), 637-656.
- Chalghoumi, R., Beckers, Y., Portetelle, D., & Théwis, A. (2009). Hen egg yolk antibodies (IgY), production and use for passive immunization against bacterial enteric infections in chicken: a review. *Biotechnologie, Agronomie, Société et Environnement*, 13(3), 295-308.
- Chen, L., Song, J., Liu, H., Cai, J., Lin, Q., Xu, C., ... & Xiang, B. (2021). Phylodynamic analyses of class I Newcastle disease virus isolated in China. *Transboundary and Emerging Diseases*, 68(3), 1294-1304.
- Coffman, R. L., Sher, A., & Seder, R. A. (2010). Vaccine adjuvants: putting innate immunity to work. *Immunity*, 33(4), 492–503. <https://doi.org/10.1016/j.immuni.2010.10.002>
- Desbruslais, A., Wealleans, A., Gonzalez-Sanchez, D., & di Benedetto, M. (2021). Dietary fibre in laying hens: a review of effects on performance, gut health and feather pecking. *World's Poultry Science Journal*, 1-27.
- Dimitrov, K. M., Afonso, C. L., Yu, Q., & Miller, P. J. (2017). Newcastle disease vaccines—A solved problem or a continuous challenge?. *Veterinary microbiology*, 206, 126-136.
- Dimitrov, K. M., Ramey, A. M., Qiu, X., Bahl, J., & Afonso, C. L. (2016). Temporal, geographic, and host distribution of avian paramyxovirus 1 (Newcastle disease virus). *Infection, genetics and evolution*, 39, 22-34.
- Dortmans, J. C., Peeters, B. P., & Koch, G. (2012). Newcastle disease virus outbreaks: vaccine mismatch or inadequate application?. *Veterinary microbiology*, 160(1-2), 17-22.
- Ecco, R., Susta, L., Afonso, C. L., Miller, P. J., & Brown, C. (2011). Neurological lesions in chickens experimentally infected with virulent Newcastle disease virus isolates. *Avian pathology*, 40(2), 145-152.
- Gaberc-Porekar, V., & Menart, V. (2001). Perspectives of immobilized-metal affinity chromatography. *Journal of biochemical and biophysical methods*, 49(1-3), 335-360.
- Hahn, B. S., Jeon, I. S., Jung, Y. J., Kim, J. B., Park, J. S., Ha, S. H., Kim, K.H., Kim, H. M., Yang, J. S., Kim, Y. H. (2007). Expression of hemagglutinin-neuraminidase protein of Newcastle disease virus in transgenic tobacco. *Plant biotechnology reports*, 1(2), 85-92.

- Haryanto, A., Wihadmadyatami, H., & Wijayanti, N. (2020). In vitro expression of the recombinant fusion protein of Newcastle disease virus from local Indonesian isolates by using a cell-free protein expression system. *Indonesian Journal of Biotechnology*, 25(2).
- Jeurissen, S. H., Boonstra-Blom, A. G., Al-Garib, S. O., Hartog, L., & Koch, G. (2000). Defence mechanisms against viral infection in poultry: a review. *Veterinary Quarterly*, 22(4), 204-208.
- Kang, X., Wang, J., Jiao, Y., Tang, P., Song, L., Xiong, D., ... & Jiao, X. (2016). Expression of recombinant Newcastle disease virus F protein in *Pichia pastoris* and its immunogenicity using flagellin as the adjuvant. *Protein expression and purification*, 128, 73-80.
- Kapczynski, D. R., Afonso, C. L., & Miller, P. J. (2013). Immune responses of poultry to Newcastle disease virus. *Developmental & Comparative Immunology*, 41(3), 447-453.
- Kim, S. H., Wanasen, N., Paldurai, A., Xiao, S., Collins, P. L., & Samal, S. K. (2013). Newcastle disease virus fusion protein is the major contributor to protective immunity of genotype-matched vaccine. *PloS one*, 8(8), 74022.
- Kneusel, R. E., Crowe, J., Wulbeck, M., & Ribbe, J. (1998). Procedures for the analysis and purification of his-tagged proteins. In *Molecular Diagnosis of Infectious Diseases* (pp. 293-308). Humana Press, Totowa, NJ.
- Kristeen-Teo, Y. W., Yeap, S. K., Tan, S. W., Omar, A. R., Ideris, A., Tan, S. G., & Alitheen, N. B. (2017). The effects of different velogenic NDV infections on the chicken bursa of Fabricius. *BMC veterinary research*, 13(1), 1-12.
- Kumar, S., Nayak, B., Collins, P. L., & Samal, S. K. (2011). Evaluation of the Newcastle disease virus F and HN proteins in protective immunity by using a recombinant avian paramyxovirus type 3 vector in chickens. *Journal of virology*, 85(13), 6521-6534.
- LaVallie, E. R. (1995). Production of recombinant proteins in *Escherichia coli*. *Current protocols in protein science*, (1), 5-1.
- Liu, H. J., Kuo, L. C., Hu, Y. C., Liao, M. H., & Lien, Y. Y. (2002). Development of an ELISA for detection of antibodies to avian reovirus in chickens. *Journal of virological methods*, 102(1-2), 129-138.
- Lowenthal, J. W., Bean, A. G. D., & Kogut, M. H. (2013). What's so special about chicken immunology?.
- Maheswarappa, G., Vijayarani, K., Kumanan, K., & Uttarkumar, A. (2015). Determination of immune potentials of recombinant fusion and recombinant haemagglutinin-neuraminidase antigens of Newcastle

disease virus (NDV). *International Journal of Current Microbiology and Applied Sciences*, 4(1), 575-588.

Medina, K. L. (2016). Overview of the immune system. In *Handbook of clinical neurology* (Vol. 133, pp. 61-76). Elsevier.

Mohan, C. M., Dey, S., Rai, A., & Kataria, J. M. (2006). Recombinant haemagglutinin neuraminidase antigen-based single serum dilution ELISA for rapid serological profiling of Newcastle disease virus. *Journal of virological methods*, 138(1-2), 117-122.

Moura, V. M. B. D., Susta, L., Cardenas-Garcia, S., Stanton, J. B., Miller, P. J., Afonso, C. L., & Brown, C. C. (2016). Neuropathogenic capacity of lentogenic, mesogenic, and velogenic Newcastle disease virus strains in day-old chickens. *Veterinary pathology*, 53(1), 53-64.

Munir, M., Cortey, M., Abbas, M., Afzal, F., Shabbir, M. Z., Khan, M. T., Ahmed, S., Baule, C., Stalh, K., Zohari, S & Berg, M. (2012). Biological characterization and phylogenetic analysis of a novel genetic group of Newcastle disease virus isolated from outbreaks in commercial poultry and from backyard poultry flocks in Pakistan. *Infection, Genetics and Evolution*, 12(5), 1010-1019.

Narat, M. (2003). Production of antibodies in chickens. *Food Technology and Biotechnology*, 41(3), 259-267.

Nugroho, B. A. (2020, April). Indonesia's Broilers Business Facing Oversupply Difficulties. In *IOP Conference Series: Earth and Environmental Science* (Vol. 478, No. 1, p. 012010). IOP Publishing.

Parkin, J., & Cohen, B. (2001). An overview of the immune system. *The Lancet*, 357(9270), 1777-1789.

Putri, C. N., & Haryanto, A. (2019, November). Fusion recombinant protein expression of newcastle disease virus from Escherichia coli-Cloned C1a using accurapid™ protein expression kit. In *IOP Conference Series: Earth and Environmental Science* (Vol. 355, No. 1, p. 012026). IOP Publishing.

Shah, K., & Maghsoudlou, P. (2016). Enzyme-linked immunosorbent assay (ELISA): the basics. *British journal of hospital medicine*, 77(7), C98-C101.

Sudardjat, S. 1991. *Epidemiology of Animal Diseases 2*. Dirkeswan – Dirjen Animal Husbandry - Ministry of Agriculture. Jakarta. 304.

Suhardi. 2011. Characterization of Ex Situ Local Chickens Typical of Dayak Bagi Development of National Poultry Germplasm. *Journal of Agricultural Technology*.

- Syibli, M., S. Nurtanto, N. Lubis, Syafrison, S. Yulianti, D. Kartika, CK Yohana, E. Setianingsih, Nurhidayah, D. Efedi, E. Saudah. 2014. Poultry Disease Manual. Dirkeswan-Director General of Animal Husbandry-Ministry of Agriculture. Jakarta. 88-89.
- Tabbu, CR 2000. Chicken Diseases and Management: Bacterial Diseases, Mical and Viral. Vol! Canisius. Yogyakarta. 164-185.
- Tallentire, C. W., Leinonen, I., & Kyriazakis, I. (2018). Artificial selection for improved energy efficiency is reaching its limits in broiler chickens. Scientific reports, 8(1), 1-10.
- Telupere, F. M. S., & Nalley, W. M. (2019, November). Phenotype and Genetic Analysis of Growth Characteristics of Sabu and Semau Chickens Which are Conserved Ex-Situ. In IOP Conference Series: Earth and Environmental Science (Vol. 372, No. 1, p. 012030). IOP Publishing.
- Wijayanti, N., & Haryanto, A. (2016). Effects of Banana Peel Meal on the Feed Conversion Ratio and Blood Lipid Profile of Broiler Chickens.
- da Fontoura Budaszewski, R., Hudacek, A., Sawatsky, B., Krämer, B., Yin, X., Schnell, M. J., & von Messling, V. (2017). Inactivated recombinant rabies viruses displaying canine distemper virus glycoproteins induce protective immunity against both pathogens. Journal of virology, 91(8), e02077-16.