

REFERENCES

- Absalón, A. E., Cortés-Espinosa, D. V., Lucio, E., Miller, P. J., & Afonso, C. L. (2019). Epidemiology, control, and prevention of Newcastle disease in endemic regions: Latin America. *Tropical Animal Health and Production*, Vol. 51, p. 1033. <https://doi.org/10.1007/s11250-019-01843-z>
- Al-Garib, S. O., Gielkens, A. L. J., Gruys, E., & Koch, G. (2003). Review of Newcastle disease virus with particular references to immunity and vaccination. *World's Poultry Science Journal*, 59(2), 185-200+260. <https://doi.org/10.1079/WPS20030011>
- Ale, M. T., & Meyer, A. S. (2013). Fucoidans from brown seaweeds: An update on structures, extraction techniques and use of enzymes as tools for structural elucidation. *RSC Advances*, Vol. 3, pp. 8131–8141. <https://doi.org/10.1039/c3ra23373a>
- Bouvier, N. M., & Palese, P. (2008). The biology of influenza viruses. *Vaccine*, 26(SUPPL. 4). <https://doi.org/10.1016/j.vaccine.2008.07.039>
- Centers for Disease Control and Prevention. (2019). Estimated Influenza Illnesses, Medical visits, Hospitalizations, and Deaths in the United States — 2018–2019 influenza season | CDC. Retrieved March 8, 2020, from <https://www.cdc.gov/flu/about/burden/2018-2019.html>
- Choi, S. H., Kim, T., Park, K. H., Kwak, Y. G., Chung, J. W., & Lee, M. S. (2017). Early administration of neuraminidase inhibitors in adult patients hospitalized for influenza does not benefit survival: a retrospective cohort study. *European Journal of Clinical Microbiology and Infectious Diseases*, 36(9), 1673–1677. <https://doi.org/10.1007/s10096-017-2982-z>
- Dias, A., Bouvier, D., Crépin, T., McCarthy, A. A., Hart, D. J., Baudin, F., ... Ruigrok, R. W. H. (2009). The cap-snatching endonuclease of influenza virus polymerase resides in the PA subunit. *Nature*, 458(7240), 914–918. <https://doi.org/10.1038/nature07745>
- 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. <https://doi.org/10.1016/j.vetmic.2016.12.019>
- Durrant, M. G., Eggett, D. L., & Busath, D. D. (2015). Investigation of a recent rise of dual amantadineresistance mutations in the influenza A M2 sequence. *BMC Genetics*, 16(Suppl 2), S3. <https://doi.org/10.1186/1471-2156-16-S2-S3>
- Edinger, T. O., Pohl, M. O., & Stertz, S. (2014, February 1). Entry of influenza A virus: Host factors and antiviral targets. *Journal of General Virology*, Vol. 95, pp. 263–277. <https://doi.org/10.1099/vir.0.059477-0>
- Ferhadian, D., Contrant, M., Printz-Schweigert, A., Smyth, R. P., Paillart, J. C., & Marquet, R. (2018, March 29). Structural and functional motifs in influenza virus RNAs. *Frontiers in Microbiology*, Vol. 9. <https://doi.org/10.3389/fmicb.2018.00559>
- Fletcher, H. R., Biller, P., Ross, A. B., & Adams, J. M. M. (2017). The seasonal variation of fucoidan within three species of brown macroalgae. *Algal Research*, 22, 79–86. <https://doi.org/10.1016/j.algal.2016.10.015>
- Grohskopf, L. A., Alyanak, E., Broder, K. R., Walter, E. B., Fry, A. M., & Jernigan, D. B. (2019). Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2019–20 Influenza Season. *MMWR. Recommendations and Reports*, 68(3), 1–21. <https://doi.org/10.15585/mmwr.rr6803a1>
- Harris, A., Cardone, G., Winkler, D. C., Heymann, J. B., Brecher, M., White, J. M., & Steven, A. C.

- (2006). Influenza virus pleiomorphy characterized by cryoelectron tomography. *Proceedings of the National Academy of Sciences of the United States of America*, 103(50), 19123–19127. <https://doi.org/10.1073/pnas.0607614103>
- Hayden, F. G., Sugaya, N., Hirotsu, N., Lee, N., De Jong, M. D., Hurt, A. C., ... Watanabe, A. (2018). Baloxavir marboxil for uncomplicated influenza in adults and adolescents. *New England Journal of Medicine*, 379(10), 913–923. <https://doi.org/10.1056/NEJMoa1716197>
- Heiden, S., Grund, C., Röder, A., Granzow, H., Kühnel, D., Mettenleiter, T. C., & Römer-Oberdörfer, A. (2014). Different regions of the newcastle disease virus fusion protein modulate pathogenicity. *PLoS ONE*, 9(12). <https://doi.org/10.1371/journal.pone.0113344>
- Krug, R. M. (2015). Functions of the influenza A virus NS1 protein in antiviral defense. *Current Opinion in Virology*, Vol. 12, pp. 1–6. <https://doi.org/10.1016/j.coviro.2015.01.007>
- Lawton, P., Karimi, Z., Mancinelli, L., & Seto, J. T. (1986). Persistent infections with Sendai virus and Newcastle disease viruses. *Archives of Virology*, 89(1–4), 225–233. <https://doi.org/10.1007/BF01309891>
- Li, B., Lu, F., Wei, X., & Zhao, R. (2008). Fucoidan: Structure and Bioactivity. *Molecules*, 13(8), 1671–1695. <https://doi.org/10.3390/molecules13081671>
- Makarenkova, I. D., Deriabin, P. G., L'vov, D. K., Zviagintseva, T. N., & Besednova, N. N. (n.d.). [Antiviral activity of sulfated polysaccharide from the brown algae *Laminaria japonica* against avian influenza A (H5N1) virus infection in the cultured cells]. *Voprosy Virusologii*, 55(1), 41–45. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/20364671>
- McAuley, J. L., Gilbertson, B. P., Trifkovic, S., Brown, L. E., & McKimm-Breschkin, J. L. (2019). Influenza virus neuraminidase structure and functions. *Frontiers in Microbiology*, Vol. 10. <https://doi.org/10.3389/fmicb.2019.00039>
- McGinnes, L. W., Pantua, H., Reitter, J., & Morrison, T. G. (2006). Newcastle disease virus: propagation, quantification, and storage. *Current Protocols in Microbiology, Chapter 15*. <https://doi.org/10.1002/9780471729259.mc15f02s01>
- Moghadami, M. (2017, January 1). A narrative review of influenza: A seasonal and pandemic disease. *Iranian Journal of Medical Sciences*, Vol. 42, pp. 2–13. Shiraz University of Medical Sciences.
- Nelson, S. W., Lorbach, J. N., Nolting, J. M., Stull, J. W., Jackwood, D. J., Davis, I. C., & Bowman, A. S. (2019). Madin-Darby canine kidney cell sialic acid receptor modulation induced by culture medium conditions: Implications for the isolation of influenza A virus. *Influenza and Other Respiratory Viruses*, 13(6), 593–602. <https://doi.org/10.1111/irv.12671>
- Pádua, D., Rocha, E., Gargiulo, D., & Ramos, A. A. (2015, December 1). Bioactive compounds from brown seaweeds: Phloroglucinol, fucoxanthin and fucoidan as promising therapeutic agents against breast cancer. *Phytochemistry Letters*, Vol. 14, pp. 91–98. <https://doi.org/10.1016/j.phytol.2015.09.007>
- Paterson, D., & Fodor, E. (2012). Emerging Roles for the Influenza A Virus Nuclear Export Protein (NEP). *PLoS Pathogens*, 8(12). <https://doi.org/10.1371/journal.ppat.1003019>
- Pereira, L., & Neto, J. M. (2014). *Marine Algae: Biodiversity, Taxonomy, Environmental Assessment, and Biotechnology* (1st ed.). CRC Press.
- Samson, M., Pizzorno, A., Abed, Y., & Boivin, G. (2013, May). Influenza virus resistance to neuraminidase inhibitors. *Antiviral Research*, Vol. 98, pp. 174–185. <https://doi.org/10.1016/j.antiviral.2013.03.014>

- Sanniyasi, E., Venkatasubramanian, G., Anbalagan, M. M., Raj, P. P., & Gopal, R. K. (2019). In vitro anti-HIV-1 activity of the bioactive compound extracted and purified from two different marine macroalgae (seaweeds) (*Dictyota bartayesiana* J.V.Lamouroux and *Turbinaria decurrens* Bory). *Scientific Reports*, 9(1), 1–12. <https://doi.org/10.1038/s41598-019-47917-8>
- Schirrmacher, V., van Gool, S., & Stuecker, W. (2019, September 1). Breaking therapy resistance: An update on oncolytic newcastle disease virus for improvements of cancer therapy. *Biomedicines*, Vol. 7. <https://doi.org/10.3390/BIOMEDICINES7030066>
- Schnell, J. R., & Chou, J. J. (2008). Structure and mechanism of the M2 proton channel of influenza A virus. *Nature*, 451(7178), 591–595. <https://doi.org/10.1038/nature06531>
- Shtykova, E. V., Baratova, L. A., Fedorova, N. V., Radyukhin, V. A., Ksenofontov, A. L., Volkov, V. V., ... Svergun, D. I. (2013). Structural analysis of influenza a virus matrix protein M1 and Its self-assemblies at low pH. *PLoS ONE*, 8(12). <https://doi.org/10.1371/journal.pone.0082431>
- Siegel, R. L., Miller, K. D., & Jemal, A. (2015). Cancer statistics, 2015. *CA: A Cancer Journal for Clinicians*, 65(1), 5–29. <https://doi.org/10.3322/caac.21254>
- Te Velthuis, A. J. W., & Fodor, E. (2016, August 1). Influenza virus RNA polymerase: Insights into the mechanisms of viral RNA synthesis. *Nature Reviews Microbiology*, Vol. 14, pp. 479–493. <https://doi.org/10.1038/nrmicro.2016.87>
- Wolkewitz, M., & Schumacher, M. (2016). Neuraminidase inhibitors and hospital mortality in British patients with H1N1 influenza A: A re-analysis of observational data. *PLoS ONE*, 11(9). <https://doi.org/10.1371/journal.pone.0160430>