

REFERENCES

- Ahmadi, A., Moghadamtousi, S.Z., Abubakar, S., and Zandi, K., (2015), Antiviral Potential of Algae Polysaccharides Isolated from Marine Sources: A Review, *BioMed Research International*, 2015: 825203.
- Alexander, D.J., Bell, J.G., and Alders, R.G., (2004), A Technology Review: Newcastle Disease – With Special Emphasis on Its Effects on Village Chickens, *FAO Animal Production and Health Paper*, Chapter 1, <http://www.fao.org/docrep/006/y5162e/y5162e00.htm#Contents> [Accessed on 15 April 2018].
- Bell, D.D., and Weaver, W.D., (2002), *Commercial Chicken Meat and Egg Production: 5th Edition*, Springer Science & Business Media, New York, United States of America: 829-846.
- Capua, I., and Alexander, D.J., (2009), *Avian Influenza and Newcastle Disease: A Field and Laboratory Manual*, Springer Science & Business Media, Milan, Italy: 22,23: 113-124.
- Chew, B.P., and Park, J.S., (2004) Carotenoid action on the immune response, *J. Nutr.*, 134: 257S-261S.
- Daghir, N.J., (2008), *Poultry Production in Hot Climates: 2nd Edition*, CAB International, Trowbridge, England: 81.
- D’Orazio, N., Gemello, E., Gammone, M.A., de Girolamo, M., Ficoneri, C., and Riccioni, G., (2012), Fucoxantin: A Treasure from the Sea, *Marine Drugs*, Vol. 10: 604-616.
- Dimitrov, K.M., Afonso, C.L., Yu, Q., and Miller, P.J., (2017), Newcastle disease vaccines – A solved problem or a continuous challenge?, *Veterinary Microbiology*, Volume 206: 126-136.
- Etriwati, Ratih, D., Handharyani, E., and Setiyaningsih, S., (2017), Pathology and immunohistochemistry study of Newcastle Disease field case in chicken in Indonesia, *Veterinary World*, 10(9): 1066-1071.
- Karadas, F., Erdoğan, S., Kor, D., Oto, G., and Uluman, M., (2016), The Effects of Different Types of Antioxidants (Se, Vitamin E and Carotenoids) in Broiler Diets on the Growth Performance, Skin Pigmentation and Liver and Plasma Antioxidant Concentrations, *Brazilian Journal of Poultry Science*, 18(1): 101-116.

- Kartikaningsih, H., Mufti, E.D., and Nurhanief, A.E., (2017), Fucoxanthin from Brown Seaweed *Sargassum cristaefolium* Tea in Acid pH, *AIP Conference Proceedings*, 1844(030009): 1-9.
- Leeson, S., and Summers, J.D., (2009), *Broiler Breeder Production*, Nottingham University Press, Nottingham, England: 289-305.
- Li, B., Lu, F., Wei, X., Zhao, R., (2008), Fucoidan: Structure and Bioactivity, *Molecules*, 13: 1671-1695.
- Merdekawati, W., and Susanto, A.B., (2009), Kandungan dan Komposisi Pigmen Rumput Laut serta POTensinya untuk Kesehatan, *Squalen*, 4(2): 41-47.
- Miller, P.J., Afonso, C.L., El Attrache, J., Dorsey, K.M., Courtney, S.C., Guo, Z., and Kapczynski, D.R., (2013), Effects of Newcastle disease virus vaccine antibodies on the shedding and transmission of challenge viruses, *Development and Comparative Immunology*, 41(4): 505-513.
- Pakidi, C.S., and Suwoyo, H.S., (2016), Potensi dan pemanfaatan bahan aktif alga cokelat *Sargassum* sp., *Octopus Jurnal Ilmu Perikanan*, Volume 6, No.1: 488-498.
- Pham-Huy, L.A., He, H., and Pham-Huy, C., (2008), Free Radicals, Antioxidants in Disease and Health, *Int. J. Biomed Sci*, 4(2): 89-96.
- Quinn, P.J., Markey, B.R., Leonard, F.C., FitzPatrick, E.S., Fanning, S., and Hartigan, P.J., (2011), *Veterinary Microbiology and Microbial Disease, Second Edition*, Wiley-Blackwell, West Sussex, England: 662-664.
- Renhoran, M., Noviendri, D., Setyaningsih, I., and Uju, (2017), Ekstraksi dan Purifikasi Fukosantin dari *Sargassum* sp. Sebagai Anti-Acne, *Jurnal Pengolahan Hasil Perikanan Indonesia*, 20(2): 370-379.
- Riccioni, G., D'Orazio, N., Franceschelli, S., and Speranza, L., (2011), Marine Carotenoids and Cardiovascular Risk Markers, *Marine Drugs*, Vol. 9: 1166-1175.
- Ritchie, B.W., (1995), *Avian Viruses: Function and Control*, Wingers Publishing Inc., Florida, United States of America: 261-262.
- Roehrs, M., Valentini, J., Paniz, C., Moro, A., Charão, M., Bulcão, R., Freitas, F., Brucker, N., Duarte, M., Leal, M., Burg, G., Grune, T., and Garcia, S.C., (2011), The Relationships between Exogenous and Endogenous Antioxidants with the lipid profile and oxidative damage in hemodialysis patients, *BMC Nephrology*, 59(12): 1-9.

- Sachindra, N., Sato, E., Maeda, H., Hosokawa, M., Niwano, Y., Kohno, M., and Miyashita, K., (2007), Radical Scavenging and Singlet Oxygen Quenching Activity of Marine Carotenoid Fucoxanthin and Its Metabolites, *Journal of Agricultural and Food Chemistry*, 55(21): 8516-8522.
- Saif, Y.M., Fadly, A.M., Glisson, J.R., McDougald, L.R., Nolan, L.K., and Swayne, D.E., (2008), *Diseases of Poultry: 12th Edition*, Blackwell Publishing, Iowa, United States of America: 90-92.
- Shane, M.S., (2005), *Handbook on Poultry Diseases: 2nd Edition*, American Soybean Association, Singapore: 79-80.
- Soedjana, T.D. and Priyanti, A., (2017), Competitiveness of Indonesian Livestock Production among ASEAN countries, *Wartazoa*, Vol. 27 No. 1: 001-014.
- Tamalludin, F., (2014), *Panduan Lengkap Ayam Broiler*, Penebar Swadaya Grup, Jakarta, Indonesia: 22-23.
- Tortora, G.J., Funke, B.R., and Case, C.L., (2009), *Microbiology: An Introduction, 10th Edition*, Pearson Benjamin-Cummings, California, United States of America: 512-513.
- van Boven, M., Bouma, A., Fabri, T.H., Katsma, E., Hartog, L., and Koch, G., (2008), Herd immunity to Newcastle disease virus in poultry by vaccination, *Avian Pathology*, 37(1): 1-5.
- Wu, H.Y., Lim, S.J., Mustapha, W.A.W., Maskat, M.Y., and Said, M., (2014), Characterisation and Stability of Pigments Extracted from *Sargassum binderi* Obtained from Semporna, Sabah, *Sains Malaysiana*, 43(9): 1345-1354.
- Zaragozá, M.C., López, D., Sáiz, M.P., Poquet, M., Pérez, J., Puig-Parellada, P., Marmol, F., Simonetti, P., Gardana, C., Lerat, Y., Burtin, P., Inisan, C., Rousseau, I., Besnard, M., and Mitjavila, M.T., (2008), Toxicity and Antioxidant Activity *in Vitro* and *in Vivo* of Two *Fucus vesiculosus* Extracts, *Journal of Agricultural and Food Chemistry*, 56(17): 7773-7780
- Zhao, D., Kim, S., Pan, C., and Chung, D., (2014), Effects of heating, aerial exposure and illumination on stability of fucoxanthin in canola oil, *Food Chemistry*, Vol. 145: 505-513.