

DAFTAR PUSTAKA

- AHDB Beef and lamb. 2016. *Mycotoxin Contamination in Animal Feed and Forages*. <http://beefandlamb.ahdb.org.uk/wpcontent/uploads/2016/08/BRP-plus-Mycotoxin-contamination-in-animal-feed.pdf>. Diakses pada 21 Agustus 2018.
- Awad, Wageha, Khaleed Ghareeb, Josef Böhm, dan Jürgen Zentek. 2013. The Toxicological Impacts of the *Fusarium* Mycotoxin, Deoksinivalenol. *Poultry Flocks with Special Reference to Immunotoxicity*. *Toxins* 2013, 5, 912-925; doi:10.3390/toxins5050912
- Bancroft, John D., S. Kim Suvarna, and Christopher Layton. *Theory and Practice of Histological Technique 7th Ed.* Churchill Livingstone Elsevier,UK. 173-186.
- Becker, C.,Reiter, M., Pfaffl, M.W., Meyer, H.H.D.,Bauer, J., dan Meyer, K.H.D. 2011. Expression of immune relevant genes in pigs under the influence of low doses of Deoksinivalenol (DON). *Mycotoxin Res.* 2011, 27, 287–293
- Bennett, J. W., and M. Klich. 2003. Mycotoxins. *Clinical Microbiol. Rev.* 16:497–516.
- Bergsjö, B. , O. Herstad, dan I. Nafstad . 1992. Effects of feeding deoxynivalenol-contaminated oats on reproduction performance in white leghorn hens. *Journal British Poultry Science* : 147-159. Volume 34, 1993
- Bermudez, A. J., D. R. Ledoux, and G. E. Rottinghaus. 1995. Effects of *Fusarium moniliforme* culture material containing known levels of fumonisin B1 in ducklings. *Avian Dis.* 39:879–886.
- Borutova, Radka. 2010. *Synergistic effects between mycotoxins in pigs and poultry*. www.mycotoxin.info. Diakses pada 21 Agustus 2017.
- Bouhet, Sandrine dan Isabell P. Oswald. 2005. The Effect of Mycotoxin, Fungal Food Contaminants, on the Intestinal Epithelial Cell-Derived Innate Immune Response. *Veterinary Immunology and Immunopathology Journal* 108 (2005) 199–209
- Brake, J., P.B Hamilton, dan R.S. Kittrell. 2000. Effects of the Trichothecene Mycotoxin Diacetoxyscirpenol on Feed Consumption, Body Weight, and Oral Lesions of Broiler Breeders. *Poultry Science* 79:856–863.
- Broomhead, J. N., D. R. Ledoux, A. J. Bermudez, and G. E. Rottinghaus. 2002. Chronic effects of fumonisin B1 in broilers and turkeys fed dietary treatments to market age. *Poultry Science.* 81:56–61.
- Brown, T. P., G. E. Rottinghaus, and M. E. Williams. 1992. Fumonisin mycotoxicosis in broilers: Kinerjance and pathology. *Avian Dis.* 36:450–454.

Universitas Gadjah Mada, 2019 | Diunduh dari <http://etd.repository.ugm.ac.id/>
Bryden, Wayne L. 2011. Mycotoxin contamination of the feed supply chain:
Implications for animal productivity and feed security. *Animal Feed Science
and Technology*

Cheng, Vincent. 2012. *Mycotoxin*. [http://www.mycotoxins.info/en/
/effects/poultry/](http://www.mycotoxins.info/en/effects/poultry/). Diakses pada 21 agustus 2017

Chi, Fang dan Jonathan Broomhead. 2008. *Mycotoxin and Poultry: A Review for
Poultry Producers*. Amlan International.

Cortinovis, Cristina, Fabiola Pizzo, Leon J. Spicer, Francesca Caloni. 2013.
Fusarium mycotoxins: Effects on reproductive function in domestic
animals: A review. *Theriogenology* 80 (2013) 557–564

D’Mello, J., C. Placinta, and A. Macdonald. 1999. Fusarium mycotoxins: A review
of global implications for animal health, welfare and productivity. *Anim.
Feed Sci. Technol.* 80:183–205.

Danicke, S., 2002. Prevention and control of mycotoxins in the poultry production
chain: A European view. *World. Poult. Sci. J.* 58:451–474.

DBS. 2016. Indonesia’s Growing Appetite for Animal Protein. An Overview of
Business Models, Opportunities and Strategies. *DBS Asian Insigt. Sector
Briefieng Number 21*.

Devegowda, G., and T. N. K. Murthy, 2005. Mycotoxins: Their effects in poultry
and some practical solutions. *The Mycotoxin Blue Book*. 25-26. D. E. Diaz
ed. Nottingham University Press, Nottingham, UK.

Diamond J. Dirty eating for healthy living. *Nature*. 1999;400:120–121

Eriksen, G.S.dan Aleksander, J.1998. (Eds.) *Fusarium Toxins in Cereals—A risk
Assessment*. TemaNord; Nordic Council of Ministers: Copenhagen,
Denmark, 1998; Volume 502, 115p

European Union (EU). 2006. *European Union, Commision Recommendation of 17
August 2006 on the presence of deoxynivalenol, zearalenone, ochratoxin A,
T-2 and HT-2 and fumonisins in products intended for animal feeding*

Ewuola EO, Egbunike GN. 2010. Effects of dietary fumonisin B1 on the onset of
puberty, semen quality, fertility rates and testicular morphology in male
rabbits. *Reproduction* 2010;139:439–45.

Food Standard Agency. 2013. *Mycotoxin in Animal Feed*.
[https://www.food.gov.uk/businessindustry/farmingfood/crops/
mycotoxinsguidance/animalfeed](https://www.food.gov.uk/businessindustry/farmingfood/crops/mycotoxinsguidance/animalfeed). Diakses pada 21 agustus 2017.

Han, Seung Eun Eileen.2017. *Mycotoksin Risk Management Focus on Indonesian
National Mycotoxin Survey 2017*. Biomin Singapore.

Haschek, W.M., Voss, K.A., Beasley, V.R., 2002. Selected mycotoxins affecting
animal and human health. *Handbook of Toxicological Pathology, vol. 1,
second ed*. Academic Press, New York, pp. 645–699.

- Universitas Gadjah Mada, 2019 | Diunduh dari <http://etd.repository.ugm.ac.id/>
- Hoerr, Frederic J. 2012. *Overview of Mycotoxicoses in Poultry*.
<http://www.merckvetmanual.com/poultry/mycotoxicoses/overview-of-mycotoxicoses-in-poultry>. Diakses pada 21 Agustus 2017
- Howarth, B.,Jr. dan R.D. Wyatt. 1976. Effect of Dietary Aflatoxin on Fertility, Hatchability, and Progeny Performance of Broiler Breeder Hens. *Applied and Environmental Microbiology*. May 1976,p.680-684. USA.
- Huff, W. E., L. F. Kubena, R. B. Harvey, W. M. Hagler, JR., S. P. Swanson, T. D. Phillips, dan C. R. Creger. 1986. Individual and Combined Effects of Aflatoxin and Deoxynivalenol (DON, Vomitoxin) in Broiler Chickens. *Poultry Science* 65:1291-1298
- Hussar, Piret, Tõnu järveots, Lazo pendovski, Katerina blagoevska, Trpe ristoski, Florina popovska-percinic. 2018. T-2 Mycotoxin Induced Apoptosis in Broiler's Tissue. *Papers on Anthropology XXVII/1*, 2018, pp. 9–16.
- Hussein, S., dan Jeffrey M. Brassel. 2001. Toxicity, metabolism, and impact of mycotoxins on humans and animals. *Toxicology* 167 (2001) 101–134
- Huwigg, A., Freimund, S., Kappeli, O., Dutker, H. 2001. Mycotoxin Detoxification of Animal Feed by Different Adsorbent. *Toxicol. Letter*.122:179-188.
- Ismaiel, Ahmed A. dan Jutta Pepenbrock. 2015. Mycotoxin: Producing Fungi and Mechanism of Phytotoxicity. *Agriculture* 2015, 5, 492-537.
- Kiessling, Karl-Heinz. 1986. Biochemical mechanism of Action of Mycotoxins. *Chem.*, Vol. 58, No. 2, pp. 327—338, 1986..Printed in Great Britain.
- King'ori, A.M.,2011. Review: Factor that Influence Eggs Fertility and hatchability in Poultry. *International Journal of Poltry Scince* 10 (6): 483-492.
- Kowalska, Karolina, Dominika Ewa Habrowska-Górczy' nska, Agnieszka Wanda Piastowska-Ciesielska.2016. Review: Zearalenone as an endocrine disruptor in humans. *Environmental Toxicology and Pharmacology* 48 (2016) 141–149
- Kpembi, Alassane dan Puel O Oswald IP. 2015. Toxicological interactions between the mycotoxins deoxynivalenol, nivalenol and their acetylated derivatives in intestinal epithelial cells. *Journal of Toxicology*.Aug;89(8):1337-46.
- Krska, Rudolf, Patricia Schubert-Ullrich, Alexandra Molinelli, Michael Sulyok, Susan Macdonald, dan Colin Crews. 2008. Mycotoxin Analysis: An Update. *Journal of Food Additive and Contaminants* 25 (2): 152-163.
- Krska, Rudolph, John L. Richard, Rainer Schuhmacher, Adrew B. Slate, Thomas B. Whitaker. 2012. *Romer's Labs Guide to Mycotoxin 4th ed.* Romers Labs.
- Kumar, Theophillus Anand dan C. Balachandran. 2014. Review: Pathological Effect of Citrinin and Aflatoxin in Broiler Chicken. *International Journal of Life Science & Pharma Research*. Vol. 4 Oct-Dec 2014.

Universitas Gadjah Mada, 2019 | Diunduh dari <http://etd.repository.ugm.ac.id/>
Ledoux, D. R., T. P. Brown, T. S. Weibking, and G. E. Rottinghaus. 1992.
Fumonisin toxicity in broiler chicks. *J. Vet. Diagn. Invest.* 4:330–333.

Leeson, S., G. J. Diaz, and J. D. Summers. 1995. *Poultry Metabolic Disorders and Mycotoxins*. University Books, Guelph, Ontario, Canada.

Leeson, Steven dan John D. Summer. 2009. *Broiler Breeder Production*. Nottingham University Press. Nottingham. England.

Loggi D. G., Jr., Regenye G., Miles M. Pica and iron-deficiency anaemia: A case report. *J. Oral Maxillofac. Surg.* 1992;50:633–635.

Manafi, M. B.Umakantha, K. Mohan, H.D Narayana Swamy. 2012. Synergistic effect of Two Commonly Contaminating Mycotoxin (Aflatoxin and T-2 Toxin) on Biochemical Parameters and Immune Status of Broiler Chickens. *World applied Sciences Journal* 17 (3): 364-367,2012.

Maryam, Romsyah. 2000. Kontaminasi Fumonisin pada Bahan pakan dan Pakan Ayam di Jawa Barat. *Seminar Nasional Peternakan dan Veteriner 2000*.

Miller, J.D. 1995. Fungi and mycotoxins in grain: Implications for stored product research. *J. Stored Prod. Res.* 31, 1–16.

Moenek, Devi, Y.J.A. 2014. Evaluasi Cemaran Aflatoksin B1 pada Pakan Ayam Pedaging Komersial Di Kota Kupang. *Jurnal Kajian Veteriner* Vol. 2 N. 1 : 89-101

Murugesan, G. R.,D. R. Ledoux, K. Naehrer, F. Berthiller, T. J. Applegate, B. Grenier, T. D. Phillips, and G. Schatzmayr. 2015. Prevalence and effects of mycotoxins on poultry health and kinerjance, and recent development in mycotoxin counteracting strategies. *Poultry Science* 94:1298–1315. <http://dx.doi.org/10.3382/ps/pev075>

Naehrer K. 2012. Mycotoxin and their effect in animal. In: Guide to Mycotoxin Featuring Mycotoxin Risk Management in Animal Production. *Special Edition World Nutrition Forum 2012*. Anytime Publishing Service. England.

Nugroho, Budiutomo.2014. Tesis : *Pengaruh Mikotoksin dalam pakan terhadap produksi*. Universitas Gadjah Mada. Yogyakarta

Ogunlade JT, Ewuola EO, Gbore FA, Bandyopadhyay R, Niezen J, Egbunike GN. 2006. Testicular and epididymal sperm reserves of rabbits fed fumonisin contaminated diets. *World Appl Sci J* 2006;1:35–8.

PERMENTAN.2014. Peraturan Menteri Pertanian Republik Indonesia Nomor 31/Permentan/OT.140 /2/2014. *Pedoman Budidaya Ayam Peadging dan Ayam Petelur yang Baik*

Phillips T. D., Afriyie-Gyawu E., Williams J. H., Huebner H. J., Ankrah N.-A., Ofori-Adjei D., Jolly P. E., Johnson N., Taylor J. F., Marroquin-Cardona

- A., Xu L., Tang L., Wang J. S. Reducing human exposure to aflatoxin through use of clay. *Food Addit. Contam.* 2008;25:134–145.
- Qureshi, M.A., Brake, J., Hamilton, P.B., Hagler, W.M., dan S. Nesheim. (1998).Dietary Exposure of Broiler Breeder to Aflatoxin in Immune Dysfunction in Progeny Chicks. *Poultry Science* 77:812-819.
- Rahmani, A., S.Jinap, dan F. Solmany. 2009. Qualitative and Quantitative Analysis of Mycotoxins. *Comprehensive Reviews in Food Science and Food Savety* 8: 202-252.
- Raju, M., and G. Devegowda. 2000. Influence of esterified glucomannan performance and organ morphology, serum biochemistry and haematology in broilers exposed to individual and combined mycotoxicosis (aflatoxin, ochratoxin and T-2 toxin). *Brit. Poult. Sci.* 41:640–650.
- Rodrigues, I. dan Schuh, M. (Eds).2013. *Mycotoxin in Swine Production*. 5M Publishing. Sheffield, UK.
- Rodrigues, I., Binder, E.M., Schatmayr, G. 2009. *Microorganism and Their Enzyme for Detoxifying Mycotoxin Posing a Risk to Livestock Animals*. Review Paper. ACS book Chapter 8;107-117
- Ruandhito, Pramudya Rizki. 2017.Thesis: *Efek Anti Mikotoksin terhadap Kandungan Mikotoksin dalam Pakan Ayam Petelur dan Pengaruhnya pada Produksi Telur dan titer Antibodi terhadap ND*. Universitas Gadjah Mada. Yogyakarta.
- Rukmini, C., J. S. Prasad, and K. Rao, 1980. Effects of feeding T-2 toxin to rats and monkeys. *Food Cosmet. Toxicol.* 18:267–271.
- Savard, Christian, Perrine Nogues, Alexandre Boyer, Younes Chorfi. 2016. Prevention of deoxynivalenol- and zearalenone-associated oxidative stress does not restore MA-10 Leydig cell functions. *Toxicology* 341–343 (2016) 17–27
- Slaoui, M. dan Fiette, L. 2011. Histopathology procedures: From Tissue Sampling to Histopathological Evaluation. *Method in Molecular Biology Vol.* 69. 69 - 82
- SNI. 2013. SNI 01-4483-2013: *Jagung-Bahan Baku Pakan Ternak*. http://sisni.bsn.go.id/index.php?/sni_main/sni/detail_sni/4925
- Surai, P.F. 2002. *Natural Antioxidants in Avian Nutrition and Reproduction*. Nottingham University Press, UK.
- Tabbu, Charles Rangga. 2002. *Penyakit Ayam dan Penanggulangannya: Penyakit Asal parasit, Noninfeksius, dan Etiologi Kompleks Vol.2*. PT. Kanisius. Yogyakarta.
- Tabbu, Charles Rangga. 2016. The Common clinical Signs and Pathological Lesions of Mycotoxicosis in Poultry. *World Nutrition Forum 2016*.

- Universitas Gadjah Mada, 2019 | Diunduh dari <http://etd.repository.ugm.ac.id/>
- Tabbu, Charles Rangga. 2018a. *Pidato Purna Tugas: Mikotksin dan Dampaknya pada Industri Perunggasan di Indonesia*. Fakultas Kedokteran Hewan Universitas Gadjah Mada. Yogyakarta
- Tabbu, Charles Rangga. 2018b. *Atlas Berwarna Penyakit Unggas*. Gadjah Mada University Press. Yogyakarta.
- Tammer, Beate, Irina Lehmann, Karen Nieber, dan Rolf Altenburger. 2007. Combined effects of mycotxin mixtures on human T cell function. *Toxicology Letters* 170 (2007) 124–133
- Tangendjaja, Budi, Sri Rachmawati, dan Elizabeth Wina. 2008. Mycotxin Comtamination on Corn Used by Feed Mills in Indonesia. *Indonesian Journal of Agricultural Science* 9(2), 2008: 68-76.
- Tran, S. T., A. Auvergne, G. Benard, J. D. Bailly, D. Tardieu, R. Babile, and P. Guerre, 2005. Chronic effects of fumonisin B1 on ducks. *Poultry Science*. 84:22–28.
- Tran, S.T., Smith, T.K., Girgis, G.N., 2012. A survey of free and conjugated deoxynivalenol in the 2008 corn crop in Ontario. *Can. J. Sci. Food Agric*. 92, 37– 41.
- US AID.2013 *Indonesian Poultry Value Chain*. http://pdf.usaid.gov/pdf_docs/PBAAA043.pdf. Diakses pada 21 Agustus 2017
- Verma , J.,T.S. Johri , B.K. Swain Dr. dan S. Ameena.2004. Effect of graded levels of aflatoxin, ochratoxin and their combinations on the performance and immune response of broilers. *British Poultry Science* 4: 512-518
- Wang, E., W. P. Norred, C. W. Bacon, R. T. Riley, and A. H. Merrill, Jr. 1991. Inhibition of sphingolipid biosynthesis by fumonisins: Implications for diseases associated with *Fusarium moniliforme*. *J. Biol. Chem*. 266:14486–14490.
- Weibking, T. S., D. R. Ledoux, A. J. Bermudez, J. R. Turk, G. E. Rottinghaus, E. Wang, and A. H. Merrill, Jr. 1993. Effects of feeding *Fusarium moniliforme* culture material, containing known levels of fumonisin B1, on the young broiler chick. *Poultru Science*. 72:456–466.
- Wilson, JeannaL., 2002. Understanding the Factors that Influence Broiler Breeder Flock Fertility. *Hatchery and Breeder Poultry Tips*. March 2002.
- Yarru, L. P., R. S. Settivari, N.K.S. Gowda, E. Antoniou, D. R Ledoux, and G. E. Rottinghaus. 2009. Effects of turmeric (*Curcumalonga*) on the expression of hepatic genes associated with biotransformation, antioxidant, and immune systems in broiler chicks fed aflatoxin. *Poultry Science*. 88:12, 2620–2627



UNIVERSITAS
GADJAH MADA

**PENGARUH CEMARAN MIKOTOKSIN DALAM PAKAN KOMPLIT PADA PARENT STOCK BROILER DI
DESA LUMPANG, KABUPATEN
BOGOR, JAWA BARAT: KAJIAN TERHADAP KINERJA PRODUKSI DAN PERUBAHAN PATOLOGIK
ORGAN TARGET PRIMER
MIKOTOKSIN**

MARDINI KUSUMOJATI, Prof. drh. Charles Rangga Tabbu, M.Sc.,PhD.,Prof. Dr. drh. A.E.T.H. Wahyuni, M.Si

Universitas Gadjah Mada, 2019 | Diunduh dari <http://etd.repository.ugm.ac.id/>
Yegani. M., T.K. Smith, S. Leeson, dan H.J. Boermanst. 2006. Effects of Feeding
Grains Naturally Contaminated with *Fusarium* Mycotoxins on Kinerjance
and Metabolism of Broiler Breeders. *Poultry Science* 85:1541–1549