

## BIBLIOGRAFIA

- Albonico, M., Schutz, L.F., Caloni, F., Cortinovis, C., Spicer, L.J., 2017. In vitro effects of the Fusarium mycotoxins fumonisin B1 and beauvericin on bovine granulosa cell proliferation and steroid production. *Toxicon* 128, 38-45.
- Alonso, V., Díaz Vergara, L., Aminahuel, C., Pereyra, C., Pena, G., Torres, A., Dalcero, A., Cavaglieri, L., 2015. Physiological behaviour of gliotoxigenic *Aspergillus fumigatus* sensu stricto isolated from maize silage under simulated environmental conditions. *Food Additives & Contaminants: Part A* 32, 236-244.
- Antonissen, G., Martel, A., Pasmans, F., Ducatelle, R., Verbrugghe, E., Vandenbroucke, V., Li, S., Haesebrouck, F., Van Immerseel, F., Croubels, S., 2014. The impact of Fusarium mycotoxins on human and animal host susceptibility to infectious diseases. *Toxins* 6, 430-452.
- Applebaum, R.S., Brackett, R.E., Wiseman, D.W., Marth, E.H., 1982. Responses of dairy cows to dietary aflatoxin: Feed intake and yield, toxin content, and quality of milk of cows treated with pure and impure aflatoxin. *Journal of Dairy Science* 65, 1503-1508.
- Awad, W.A., Hess, C., Hess, M., 2017. Enteric pathogens and their toxin-induced disruption of the intestinal barrier through alteration of tight junctions in chickens. *Toxins* 9, 60.
- Baker, D.C., Rottinghaus, G.E., 1999. Chronic experimental fumonisin intoxication of calves. *Journal of Veterinary Diagnostic Investigation* 11, 289-292.
- Bouslimi, A., Bouaziz, C., Ayed-Boussema, I., Hassen, W., Bacha, H., 2008. Individual and combined effects of ochratoxin A and citrinin on viability and DNA fragmentation in cultured Vero cells and on chromosome aberrations in mice bone marrow cells. *Toxicology* 251, 1-7.
- Caloni, F., Ranzenigo, G., Cremonesi, F., Spicer, L.J., 2009. Effects of a trichothecene, T-2 toxin, on proliferation and steroid production by porcine granulosa cells. *Toxicon* 54, 337-344.
- Chain, E.P.o.C.i.t.F., 2012. Scientific Opinion on the risks for public and animal health related to the presence of citrinin in food and feed. *EFSA Journal* 10, 2605.
- Changwa, R., Abia, W., Msagati, T., Nyoni, H., Ndleve, K., Njobeh, P., 2018. Multi-mycotoxin occurrence in dairy cattle feeds from the Gauteng province of South Africa: A pilot study using UHPLC-QTOF-MS/MS. *Toxins* 10, 294.
- Donkor, O., Ramchandran, L., Vasiljevic, T., 2016. Techniques and Control for Mycotoxins Detection, Quantification in Dairy Products. *Microbial Toxins in Dairy Products* 7, 201.
- Elgioushy, M.M., Elgaml, S.A., El-Adl, M.M., Hegazy, A.M., Hashish, E.A., 2020. Aflatoxicosis in cattle: clinical findings and biochemical alterations. *Environmental Science and Pollution Research* 27, 35526-35534.
- Fink-Gremmels, J., 2008a. The role of mycotoxins in the health and performance of dairy cows. *Vet J* 176, 84-92.
- Fink-Gremmels, J., 2008b. The role of mycotoxins in the health and performance of dairy cows. *The Veterinary Journal* 176, 84-92.



- Frisvad, J.C., Rank, C., Nielsen, K.F., Larsen, T.O., 2009. Metabolomics of *Aspergillus fumigatus*. *Medical Mycology* 47, S53-S71.
- Fushimi, Y., Takagi, M., Monniaux, D., Uno, S., Kokushi, E., Shinya, U., Kawashima, C., Otoi, T., Deguchi, E., Fink-Gremmels, J., 2015. Effects of Dietary Contamination by Zearalenone and Its Metabolites on Serum Anti-Müllerian Hormone: Impact on the Reproductive Performance of Breeding Cows. *Reprod Domest Anim* 50, 834-839.
- Gallo, A., Giuberti, G., Bertuzzi, T., Moschini, M., Masoero, F., 2015. Study of the effects of PR toxin, mycophenolic acid and roquefortine C on in vitro gas production parameters and their stability in the rumen environment. *The Journal of Agricultural Science* 153, 163-176.
- Gao, Y., Meng, L., Liu, H., Wang, J., Zheng, N., 2020. The compromised intestinal barrier induced by mycotoxins. *Toxins* 12, 619.
- Gonçalves, B.L., Corassin, C.H., Oliveira, C.A.F.d., 2015. Mycotoxicoses in dairy cattle: a review. *Asian Journal of Animal and Veterinary Advances* 10, 752-760.
- Guerre, P., 2020. Mycotoxin and gut microbiota interactions. *Toxins* 12, 769.
- Gupta, R.C., 2012. *Veterinary toxicology: basic and clinical principles*. Academic press.
- Hartertinger, T., Kröger, I., Neubauer, V., Faas, J., Doupovec, B., Schatzmayr, D., Zebeli, Q., 2023. Zearalenone and Its Emerging Metabolites Promptly Affect the Rumen Microbiota in Holstein Cows Fed a Forage-Rich Diet. *Toxins (Basel)* 15.
- Jiang, Y., Ogunade, I., Kim, D., Li, X., Pech-Cervantes, A., Arriola, K., Oliveira, A., Driver, J., Ferraretto, L., Staples, C., 2018. Effect of adding clay with or without a *Saccharomyces cerevisiae* fermentation product on the health and performance of lactating dairy cows challenged with dietary aflatoxin B1. *Journal of dairy science* 101, 3008-3020.
- Jiang, Y., Yang, H., Lund, P., 2012. Effect of aflatoxin B1 on in vitro ruminal fermentation of rations high in alfalfa hay or ryegrass hay. *Animal feed science and technology* 175, 85-89.
- Jovaišienė, J., Bakutis, B., Baliukonienė, V., Gerulis, G., 2016. *Fusarium* and *Aspergillus* mycotoxins effects on dairy cow health, performance and the efficacy of Anti-Mycotoxin Additive. *Pol J Vet Sci* 19, 79-87.
- Kallela, K., Ettala, E., 1984. The oestrogenic *Fusarium* toxin (zearalenone) in hay as a cause of early abortions in the cow. *Nordisk veterinäraermedicin* 36, 305-309.
- Kemboi, D.C., Antonissen, G., Ochieng, P.E., Croubels, S., Okoth, S., Kangethe, E.K., Faas, J., Lindahl, J.F., Gathumbi, J.K., 2020. A review of the impact of mycotoxins on dairy cattle health: Challenges for food safety and dairy production in sub-Saharan Africa. *Toxins* 12, 222.
- Korosteleva, S.N., Smith, T.K., Boermans, H.J., 2009. Effects of feed naturally contaminated with *Fusarium* mycotoxins on metabolism and immunity of dairy cows. *J Dairy Sci* 92, 1585-1593.
- Kurtz, R.S., Czuprynski, C.J., 1992. Effect of aflatoxin B1 on in vitro production of interleukin-1 by bovine mononuclear phagocytes. *Veterinary immunology and immunopathology* 34, 149-158.
- Kutz, R., Sampson, J., Pompeu, L., Ledoux, D., Spain, J., Vazquez-Anon, M., Rottinghaus, G., 2009. Efficacy of Solis, NovasilPlus, and MTB-100 to reduce aflatoxin M1 levels in milk of early to mid lactation dairy cows fed aflatoxin B1. *Journal of dairy science* 92, 3959-3963.



- Lloyd, W., 1980. Citrinin and ochratoxin toxicoses in cattle in the United States. In: Proceedings of the 2nd International Symposium of Veterinary Laboratory Diagnosticians, June 24-26 1980, Lucerne, Switzerland, IV., pp. 435-439.
- Masoero, F., Gallo, A., Moschini, M., Piva, G., Diaz, D., 2007. Carryover of aflatoxin from feed to milk in dairy cows with low or high somatic cell counts. *Animal* 1, 1344-1350.
- Mathur, S., Constable, P.D., Eppley, R.M., Waggoner, A.L., Tumbleson, M.E., Haschek, W.M., 2001. Fumonisin B1 is hepatotoxic and nephrotoxic in milk-fed calves. *Toxicological Sciences* 60, 385-396.
- McKenzie, R., Blaney, B., Connole, M., Fitzpatrick, L., 1981. Acute aflatoxicosis in calves fed peanut hay. *Australian Veterinary Journal* 57, 284-286.
- Mojtahedi, M., Mesgaran, M.D., Vakili, S.A., Hayati-Ashtiani, M., 2013. Effect of aflatoxin B1 on in vitro rumen microbial fermentation responses using batch culture. *Annual Research & Review in Biology*, 686-693.
- Njobeh, P.B., Dutton, M.F., Tevell Åberg, A., Haggblom, P., 2012. Estimation of multi-mycotoxin contamination in South African compound feeds. *Toxins* 4, 836-848.
- O'Brien, M., Nielsen, K.F., O'Kiely, P., Forristal, P.D., Fuller, H.T., Frisvad, J.C., 2006. Mycotoxins and other secondary metabolites produced in vitro by *Penicillium paneum* Frisvad and *Penicillium roqueforti* Thom isolated from baled grass silage in Ireland. *Journal of Agricultural and Food Chemistry* 54, 9268-9276.
- Ogunade, I., Arriola, K., Jiang, Y., Driver, J., Staples, C., Adesogan, A., 2016. Effects of 3 sequestering agents on milk aflatoxin M1 concentration and the performance and immune status of dairy cows fed diets artificially contaminated with aflatoxin B1. *Journal of dairy science* 99, 6263-6273.
- Oswald, I.P., Marin, D., Bouhet, S., Pinton, P., Taranu, I., Accensi, F., 2005. Immunotoxicological risk of mycotoxins for domestic animals. *Food additives and contaminants* 22, 354-360.
- Osweiler, G., Kehrli, M., Stabel, J., Thurston, J., Ross, P., Wilson, T., 1993. Effects of fumonisin contaminated corn screenings on growth and health of feeder calves. *Journal of animal science* 71, 459-466.
- Perego, M.C., Morrell, B.C., Zhang, L., Schütz, L.F., Spicer, L.J., 2020. Developmental and hormonal regulation of ubiquitin-like with plant homeodomain and really interesting new gene finger domains 1 gene expression in ovarian granulosa and theca cells of cattle. *J Anim Sci* 98.
- PFOHL-LESZKOWICZ, A., 2000. Risques mycotoxicoles pour la santé des animaux et de l'homme. *Cahiers de nutrition et de diététique* 35, 389-397.
- Pier, A., 1992. Major biological consequences of aflatoxicosis in animal production. *Journal of Animal Science* 70, 3964-3967.
- Pier, A., Richard, J., 1992. Mycoses and mycotoxicoses of animals caused by *Aspergilli*.
- Pier, A.C., Richard, J.L., Cysewski, S.J., 1980. Implications of mycotoxins in animal disease. *J Am Vet Med Assoc* 176, 719-724.
- Ribelin, W., Fukushima, K., Still, P., 1978. The toxicity of ochratoxin to ruminants. *Canadian Journal of Comparative Medicine* 42, 172.

Richard, J., Meerdink, G., Maragos, C., Tumbleson, M., Bordson, G., Rice, L., Ross, P., 1996. Absence of detectable fumonisins in the milk of cows fed *Fusarium proliferatum* (Matsushima) Nirenberg culture material. *Mycopathologia* 133, 123-126.

Silva, L.A., de Mello, M.R.B., Oliveira Pião, D., Silenciato, L.N., de Quadros, T.C.O., de Souza, A.H., Barbero, R.P., 2021. Effects of experimental exposure to zearalenone on reproductive system morphometry, plasma oestrogen levels, and oocyte quality of beef heifer. *Reprod Domest Anim* 56, 775-782.

Smith, B.P., 2014. Large animal internal medicine-E-Book. Elsevier Health Sciences.

Sohooa, R., Khana, A.U., Ameen, K., Rafia-Munire, A., Saleemb, F., 2015. Outbreak of aflatoxicosis on a local cattle farm in Pakistan. *Veterinaria* 3, 13-17.

Średnicka, P., Juszczuk-Kubiak, E., Wójcicki, M., Akimowicz, M., Roszko, M., 2021. Probiotics as a biological detoxification tool of food chemical contamination: A review. *Food and Chemical Toxicology* 153, 112306.

Storm, I., Sørensen, J.L., Rasmussen, R.R., Nielsen, K.F., Thrane, U., 2008. Mycotoxins in silage. *Stewart Postharvest Rev* 4, 1-12.

Sulzberger, S., Melnichenko, S., Cardoso, F., 2017. Effects of clay after an aflatoxin challenge on aflatoxin clearance, milk production, and metabolism of Holstein cows. *Journal of dairy science* 100, 1856-1869.

Sumantri, I., Murti, T., Van der Poel, A., Boehm, J., Agus, A., 2012. Carry-over of aflatoxin B1 feed into aflatoxin M1-milk in dairy cows treated with natural sources of aflatoxin and bentonite. *Journal of the Indonesian tropical animal agriculture* 37, 271-277.

Sutton, P., Waring, P., Müllbacher, A., 1996. Exacerbation of invasive aspergillosis by the immunosuppressive fungal metabolite, gliotoxin. *Immunology and cell biology* 74, 318-322.

Tola, M., Kebede, B., 2016. Occurrence, importance and control of mycotoxins: A review. *Cogent Food & Agriculture* 2, 1191103.

Trenholm, H., Thompson, B., Martin, K., Greenhalgh, R., McAllister, A., 1985. Ingestion of vomitoxin (deoxynivalenol)-contaminated wheat by non-lactating dairy cows. *Journal of Dairy Science* 68, 1000-1005.

Valgaeren, B., Théron, L., Croubels, S., Devreese, M., De Baere, S., Van Pamel, E., Daeseleire, E., De Boevre, M., De Saeger, S., Vidal, A., 2019. The role of roughage provision on the absorption and disposition of the mycotoxin deoxynivalenol and its acetylated derivatives in calves: From field observations to toxicokinetics. *Archives of toxicology* 93, 293-310.

Van Halderen, A., Green, J., 1989. A field outbreak of chronic aflatoxicosis in dairy calves in the Western Cape Province. *Journal of the South African Veterinary Association* 60, 210-211.

Wang, J., Liu, Z., Han, Z., Wei, Z., Zhang, Y., Wang, K., Yang, Z., 2020. Fumonisin B1 triggers the formation of bovine neutrophil extracellular traps. *Toxicology letters* 332, 140-145.

Weaver, G., Kurtz, H., Behrens, J., Robison, T., Seguin, B., Bates, F., Mirocha, C., 1986a. Effect of zearalenone on dairy cows. *American Journal of Veterinary Research* 47, 1826-1828.

Weaver, G., Kurtz, H., Behrens, J., Robison, T., Seguin, B., Bates, F., Mirocha, C., 1986b. Effect of zearalenone on the fertility of virgin dairy heifers. *American Journal of Veterinary Research* 47, 1395-1397.

Weaver, G., Kurtz, H., Mirocha, C., Bates, F., Behrens, J., Robison, T., Swanson, S., 1980. The failure of purified T-2 mycotoxin to produce hemorrhaging in dairy cattle. The Canadian Veterinary Journal 21, 210.

Whitlow, L., Hagler Jr, W., 2010. Mycotoxin effects in dairy cattle. Mid-South Ruminant.

Whitlow, L., Hagler, W., 2010. Mold and mycotoxin issues in dairy cattle: effects, prevention and treatment. Adv Dairy Technol 20, 195-209.



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