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CURRICULUM

EDUCATION

Ph.D. University of Nebraska-Lincoln, Food Science and Technology, 1997

M.S. University of Missouri-Columbia, Food Science and Human Nutrition, 1992

B.S. Korea University, Seoul, Korea, Food Science and Technology, 1989

RESEARCH INTERESTS

Dr. Ryu's research is in the areas of food microbiology, food toxicology and food safety with emphasis on mycotoxins in foods. Areas of his interest also include food toxicology and the fate of toxicants in foods during processing. His current research is focused on the chemical and toxicological evaluation of fumonisin B₁ in extruded corn grits.

SELECTED PUBLICATIONS

Kwon, J., D. RYU, and L.K. Zottarelli. 2006. Food handling practices and operators attitudes toward food safety at faith-based organizations in Louisiana where hurricane vacuee shelters were provided in 2005. *Food Prot. Trends*, 27:84-89.

Chung, S.H., D. RYU, E.K. Kim, and L.B. Bullerman. 2005. Enzyme-assisted extraction of moniliformin from extruded corn grits. *J. Agric. Food Chem.* 53(13):5074-5078.

RYU, D., M.A. Hanna, K.A. Eskridge, and L.B. Bullerman. 2003. Heat stability of zearalenone in an aqueous buffered model system. *J. Agric. Food Chem.* 51(6):1746-1748

Pineda-Valdes, G., D. RYU, M.A. Jackson, and L.B. Bullerman. 2003. Reduction of moniliformin in corn by heat processing. *J. Food Sci.* 68(3):1031-1035.

Pineda-Valdes, G., D. RYU, D.S. Jackson, L.B. Bullerman. 2002. Reduction of moniliformin during alkaline cooking of corn. *Cereal Chem.* 79(6):779-782.

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- Kim, E.K., D.H. Shon, D. RYU, J.W. Park, H.J. Hwang, and Y.B. Kim. 2000. Occurrence of aflatoxin M₁ in Korean dairy products determined by ELISA and HPLC. *Food Addit. Contam.* 17(1):59-64.
- RYU, D and L.B. Bullerman. 1999. Measurement of the estrogenic activity of zearalenone by cell culture technique. *Food Sci. Biotech.* 8(4):227-231.
- RYU, D. and L.B. Bullerman. 1999. Effect of cycling temperatures on the production of deoxynivalenol and zearalenone by *Fusarium graminearum* NRRL 5883. *J. Food Prot.* 62(12):1451-1455.
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- RYU, D., M. A. Hanna and L. B. Bullerman. 1999. Stability of zearalenone during extrusion of corn grits. *J. Food Prot.* 62(12):1482-1484.
- RYU, D and L.B. Bullerman. 1998. Incidence of *Fusarium* and other molds in Korean field crops. *J. Food Sci. Nutr.* 3(1):44-48.
- Choi, W. J., D. RYU, J. W. Lee, M.H. So, and Y.B. Kim. 1998. Production of *Streptomyces albus* KSM-35 amylase from *Bacillus subtilis* LKS88 harboring the recombinant plasmid pASA240. *Korean J. Food Nutr.* 11(4):381-387.
- Kim, E.K., D. RYU, D.H. Shon, S.H. Chung and Y.B. Kim. 1998. Natural occurrence of fumonisin B₁ in Korean polished rice and its processed foods by enzyme-linked immunosorbent assay. *Food Sci. Biotechnol.* 7(3):221-224.
- RYU, D., S. K. Katta, L. B. Bullerman, M. A. Hanna, and A. Gennadios. 1996. Viability in methyl soyate of microbial contaminants from farm fuel storage tanks. *Trans. ASAE.* 39(6):1200-1203.
- RYU, D. and D.L. Holt.1993. Growth inhibition of *Penicillium expansum* by several commonly used food ingredients. *J. Food Prot.* 56(10):862-867.