

Carmelita G. Frondoza, Ph.D

Professional and Academic Activities (Last 10 years)

Faculty Appointments: Johns Hopkins University: School of Public Health; Department of Immunology and Molecular Microbiology; School of Medicine, Department of Orthopaedic Surgery, Division of Arthritis Surgery
Mississippi State University, College of Veterinary Medicine Department of Clinical Sciences (adjunct professor)
Nutramax Laboratories: Research and Development Senior Director

Grant Reviewer: NIH Study sections; National Arthritis Foundation

Manuscript Reviewer (10 out of ~50): J Orthopaedic Research, J Biomedical Materials Research: A and B, Bone, Osteoarthritis and Cartilage, Tissue Engineering, Annals of Biomedical Engineering, Cartilage, FEBS Letters, Artificial Organs, Arthritis Research Therapy

Editorial Board - J Biomedical Materials Research, International J Medical Implants and Devices

Selected Publications (10 out of >100)

Au YA, Hasenwinkel JM, **Frondoza, CG** . Hepatocytes Cultured on Collagen Modified Micropatterned Agarose for Evaluating Inflammatory and Oxidative Stress Responses. *Applied In Vitro Toxicology*. 7: 3-13, 2021.

Grzanna MW, Au RY, Au AY, Rashmir AM, **Frondoza CG**. Avocado/Soybean Unsaponifiables, Glucosamine and Chondroitin Sulfate Combination Inhibits Proinflammatory COX-2 Expression and Prostaglandin E2 Production in Tendon-Derived Cells. *J Med Food*. 23:139-146, 2020.

Grzanna MW, Secor EJ, Fortuno LV, Au AY, **Frondoza CG**. Anti-Inflammatory Effect of Carprofen Is Enhanced by Avocado/Soybean Unsaponifiables, Glucosamine and Chondroitin Sulfate Combination in Chondrocyte Microcarrier Spinner Culture. *Cartilage*. 11:108-116, 2020.

Secor EJ, Grzanna MW, Rashmir-Raven A, **Frondoza CG**. Chondrocyte production of pro-inflammatory chemokine MCP-1 (CCL-2) and prostaglandin E-2 is inhibited by avocado/soybean unsaponifiables, glucosamine, chondroitin sulfate combination. *Pharmacol Pharm*. 9:10-26, 2018.

Frondoza CG, Fortuno LV, Grzanna MW, Ownby SL, Au AY, Rashmir-Raven AM. α -Lipoic Acid Potentiates the Anti-Inflammatory Activity of Avocado/Soybean Unsaponifiables in Chondrocyte Cultures. *Cartilage*.9:304-312, 2018.

Ownby, S.L, Fortuno L. V., Au, A.Y., Grzanna, M. W., Rashmir-Raven, A.M. **Frondoza, C. G**. Expression of pro-inflammatory mediators is inhibited by an avocado/soybean unsaponifiables and epigallocatechin gallate combination. *Journal of Inflammation*. 11:8., 2014.

Dycus, D. L., Au, A. Y., Grzanna, M. W., Wardlaw, J. L., **Frondoza, C. G**. Modulation of inflammation and oxidative stress in canine chondrocytes. *American Journal of Veterinary Research*. 74: 983-989, 2013.

Au, AY, Hasenwinkel JM, **Frondoza. CG**. Micropatterned agarose scaffolds covalently modified with collagen for culture of normal and neoplastic hepatocytes. *J Biomed Mater Res A*. 100:342-52, 2012.

Au AY; Hasenwinkel JM; **Frondoza CG**. Silybin Inhibits Interleukin-1 β -induced Production of Pro-inflammatory Mediators In Canine Hepatocyte Cultures. *Vet. Pharmacol. Therap.*34:120–129, 2010.

Heinecke, LF, Grzanna, MW, Au, AY, Mochal, CA, Rashmir-Raven A; **Frondoza CG**. Inhibition of cyclooxygenase-2 expression and prostaglandin E(2) production in chondrocytes by avocado soybean unsaponifiables and epigallocatechin gallate. *Osteoarthritis and Cartilage*. 18:220-227, 2010.