

Shanil Juma, PhD  
Assistant Professor  
Department of Nutrition and Food Sciences  
309 Old Main Building  
Phone: (940) 898-2704 Fax (940) 898-2634  
Email: [sjuma@twu.edu](mailto:sjuma@twu.edu)

## **CURRICULUM VITA**

### EDUCATION

PhD (2002) Nutritional Sciences; Oklahoma State University, Stillwater, Oklahoma  
Certification in Gerontology, Gerontology Institute

MS (1997) Human Nutrition; University of Illinois at Chicago, Chicago, Illinois.

BS (1993) Health Sciences; Purdue University, West Lafayette, Indiana.

### RESEARCH INTERESTS

Dr. Juma investigates the etiology of age-related conditions, osteoarthritis and osteoporosis, as a basis for the development of effective nutritional strategies for the prevention and management of these disorders. His studies employ analytical, biochemical, and molecular techniques using cell culture and animal models, as well as small-scale clinical trials. The focus of these investigations is to elucidate the anti-inflammatory, bone, and joint protective properties of naturally occurring bioactive compounds present in whole foods (functional foods, e.g. flaxseed, dried plum, grape, soy protein, etc.).

### SELECTED PUBLICATIONS

- Hooshmand S, Khalil DA, Arjmandi BH, Juma S, Soung DY, Arjmandi BH. (2007) Link between estrogen, its receptors, and osteoarthritis. *Int J Molecul Med Adv Sci*, 3:124-130.
- Lucas EA, Chen TY, Chai SC, Devareddy L, Juma S, Wei CI, Tripathi YB, Daggy BP, Hwang DF, Arjmandi. BH. (2006) Effect of vitamin E on lipid profile in ovariectomized rats. *J Med Food*, 9:77-83.
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- Arjmandi BH, Khalil DA, Lucas EA, Smith BJ, Sinichi N, Hodges, SB, Juma S, Munson ME, Payton ME, Tivis RD, Svanborg A. (2004) Soy protein may alleviate osteoarthritis symptoms. *Phytomedicine*, 11:567-575
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- Lucas EA, Juma S, Stoecker BJ, Arjmandi BH. (2002) Prune dose-dependently suppresses ovariectomy-induced hypercholesterolemia in rats. *J Nutr Biochem*, 11:255-259.
- Arjmandi BH, Birnbaum R, Juma S, Barengolts E, Kukreja SC (2000). The synthetic phytoestrogen, ipriflavone, and estrogen prevent bone loss with different mechanisms. *Calcif Tissue Int*, 66:61-65.
- Juma S, Sohn E, Arjmandi BH. (1999) Calcium-enriched wheat bread supports skeletal growth of young rats. *Nutr Res*, 19:389-399.
- Arjmandi BH, Birnbaum R, Goyal NV, Getlinger MJ, Juma S, Alekel L, Hasler CM, Drum ML, Hollis BW, Kukreja SC. (1998) Bone-sparing effect of soy protein in ovarian hormone deficient rats is related to its isoflavone content. *Am J Clin Nutr*, 68(Suppl):1364S-1368S.
- Arjmandi BH, Getlinger MJ, Goyal NV, Alekel L, Hasler CM, Juma S, Drum ML, Hollis BW, Kukreja SC. (1998) The role of soy protein with normal or reduced isoflavone content in reversing bone loss induced by ovarian hormone deficiency in rats. *Am J Clin Nutr*, 68(Suppl):1358S-1363S.
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