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Research Areas

My research interests are varied: both human and wildlife nutrition. Presently, my nutrition interests are primarily focused on humans and driven by a quote by McCance and Widdowson (1940). *“A knowledge of the chemical composition of foods is the first essential in dietary treatment of disease or in any quantitative study of human nutrition.”*

- Integrity of food composition data as it relates to today’s foods and evaluation of food intake data
- Misuse of nutrient composition information, especially on the internet
- Bioavailability of nutrients – specifically using a Caco-2 cell culture system to compare the amount of iron being absorbed from different foods
- Functionality of nutrients and sub-clinical manifestations of nutrient deficiencies – specifically iron
- Evaluation of standard medical practice blood tests to evaluate iron deficiencies
- The relationship of nutrient deficiencies to the increasing incidence of autism

Selected Recent Publications

- Chaparro, M.P., Zaghoul, S.S., Holec, P. and **Dobbs, J** (In Press). Food insecurity prevalence among college students at the University of Hawai’i at Manoa. *Public Health Nutrition*.
- Lai, J.F., **Dobbs, J.**, Dunn, M.A., Tauyan, S., and Titchenal, C.A. (In Press). Inconsistent values for iron content complicate recommending clams as an iron source. *Journal of Food Composition and Analysis*.
- Titchenal, C.A. and **Dobbs, J.C.** 2007. A system to assess the quality of food sources of calcium. *Journal of Food Composition and Analysis* 20:717-7
- **Dobbs, J.C.** & Titchenal, C.A. 2006. Vegetable and plant parts as legal dietary supplements. In: Y. H. Hui, ed. *Handbook of Food Science Technology and Engineering*. Boca Raton, CRC/Taylor & Francis. pp. 99-1 to 99-13.
- Titchenal, C.A. & **Dobbs, J.C.** 2004. Nutritional Value of Vegetables. In: Y. H. Hui, ed. *Handbook of Vegetable Preservation and Processing*. New York, Marcell Dekker. pp. 23 – 37
- **Dobbs, J.C.** & Titchenal, C.A. 2004. Vegetables as a food ingredients, including nutraceutical. In: Y. H. Hui, ed. *Handbook of Vegetable Preservation and Processing*. New York, Marcell Dekker. pp. 479 - 497.
- Benson, P.C.; Plug, I.; **Dobbs, J.C.** 2004. An analysis of bones and other materials collected by Cape Vultures at the Kransberg and Blouberg colonies, Limpopo Province, South Africa Ostrich - *Journal of African Ornithology*, Volume 75, Number 3, pp. 118-132(15)