



Jin-Rong (Joseph) Zhou, Ph.D.

Associate Professor of Surgery

Dr. Zhou received a Ph.D. degree in Nutritional Sciences at University of Illinois, Urbana-Champaign in 1994. After a postdoctoral training in bionutrition and cancer prevention at Beth Israel Deaconess Medical Center/Harvard Medical School and a National Research Service Award from the National Institutes of Health, Dr. Zhou was appointed as an Instructor (1996), an Assistant Professor (2000), and an Associate Professor (2010) in Department of Surgery, Harvard Medical School. Dr. Zhou has been the Director of Nutrition/Metabolism Laboratory at Department of Surgery, Beth Israel Deaconess Medical Center since 1998.

Dr. Zhou's research priority is to investigate the complex issues dealing with nutrition and health. The long-term goal of his research is to identify bioactive dietary and nutritional components and the active components in Chinese herbal

medicines for the prevention and treatment of chronic diseases including cancers and metabolic disorders. To identify the active components, his lab has established a series of cell-based in vitro bioassays for identification of active components, especially their synergistic combinations to target on cancer cell proliferation, apoptosis and invasion/metastasis, and on tumor angiogenesis. A series of clinically relevant animal models for cancer are established in his laboratory to systematically evaluate the efficacy of the candidate components and their synergistic combinations in prevention and treatment of cancer. Advanced techniques for cellular and molecular biology and epigenetics are also applied to elucidate the mechanisms of action of active candidates.

Dr. Zhou's research has been widely supported by several funding organizations. Since 1996, he has been the principal investigator or co-investigator on more than 30 grants from different scientific funding agencies and industry from local, national and international resources, such as the National Institutes of Health, Department of Defense, Susan Komen Breast Cancer Foundation, American Institute for Cancer Research, Massachusetts Department of Public Health, Cancer Research and Prevention Foundation and Nichimo Company in Japan. He has published over 60 peer-reviewed original research papers, review papers and book chapters/editorials.

Dr. Zhou has been the member/ad hoc member in 20 study sections and special emphasis panels for the NIH, and has also served several review panels for other national (USDA, Susan G. Komen Breast Cancer Research Foundation and Florida Department of Health) and international (Italian Association for Cancer Research, Singapore National Medical Research Council, Israel Science Foundation and National Science Foundation of China) organizations. Dr. Zhou has been the peer reviewer for 33 scientific journals, the Guest Editor for American Journal of Clinical Nutrition, the Managing Editor for Frontiers in Biosciences, the Editorial Board members for several scientific journals, and the Editor-in-Chief for the journal Nutrition and Metabolic Insights.