

Gilandra K. Russell, Ph.D.

Managing Scientist | Chemical Regulation & Food Safety
1150 Connecticut Ave NW, Suite 1100 | Washington, DC 20036
(202) 772-4925 tel | grussell@exponent.com

Professional Profile

Dr. Russell has expertise in the safety assessment of food ingredients and food additives. Dr. Russell also has worked in food manufacturing, performing quality control testing, implementing good manufacturing practices (GMPs), and complying with the Food Safety Modernization Act (FSMA). She has additionally worked as a food development scientist, including color and flavor development, and product texture design. Dr. Russell has practical experience in both food toxicology and the implementation of food technologies that assure product safety and increase product quality and stability for a range of consumer-based bakery products and ingredients. She has extensive knowledge of food ingredient and labeling regulations, including FDA food regulations and global food regulations such as CODEX and the CFDA (Canadian Food and Drugs Act).

Prior to her career in food toxicology and joining Exponent, Dr. Russell was a biomedical researcher. She received a B.S. in Chemistry before earning a Ph.D. in Pharmacology and Toxicology. She was awarded a 3-year National Institute of Environmental Health Sciences (NIEHS) pre-doctoral fellowship. Her interdisciplinary and integrative research in the environmental health sciences involved finding novel compounds in food and plants to treat, as well as prevent, environmentally induced malignancies. She also developed pre-clinical models of toxicity to evaluate the development and progression of environmentally induced cancers.

Dr. Russell's academic and industry experience has culminated in expertise and interests in the toxicological assessment of food ingredients, food regulations, as well as toxic environmental exposures and their integrated chronic effects on human health.

Academic Credentials & Professional Honors

Ph.D., Pharmacology and Toxicology, University of Louisville, 2011

M.S., Pharmacology and Toxicology, University of Louisville, 2005

B.S., Chemistry with a concentration in Biochemistry, University of Louisville, 2001

National Institute of Environmental Health Sciences (NIEHS) pre-doctoral trainee fellow in Environmental Health Sciences, 2006 – 2009

Licenses and Certifications

FSPCA (Food Safety Preventative Controls Alliance) Preventative Controls for Human Food, Certification #5879302e

Academic Appointments

Lecturer, Pharmacology, UC Berkeley Extension School, 2017-2018

Adjunct Faculty, Environmental Conservation (Biology) and Biochemistry, Indiana Wesleyan University, 2011-2017

Professional Affiliations

Institute of Food Technologists (IFT)

American Society for Pharmacology and Experimental Therapeutics (ASPET)

American Chemical Society (ACS)

Publications

Russell, G.K., Vadhanam, M., and Gupta, RC.: Effect of phytochemical intervention on DBP-induced DNA adduct formation in an in vitro cell-free system. *Mutat Res. Apr*; vol 774, 25- 32, 2015.

Gupta, R.C., Bansal, S., Aqil, f., Jeyabalan, J., Cao, P., Kausar, H., Russell, G.K., Munagala, R., Ravoori, S., and Manicka, V.V. Controlled-release systemic delivery - a new concept in cancer chemoprevention. *Carcinogenesis*, August:vol 33 (8),1608-1615, 2012.

Ravoori S, Ayotte P, Srinivasan C, Pereg D, Robertson LW, Russell G.K., Jeyabalan J. & Gupta RC.:DNA damage associated with PCBs in the whole blood cells of Inuit. *Environ Toxicol Pharmacol*, vol 25, 273-276. 2008.

Ravoori S, Ayotte P, Srinivasan C, Pereg D, Robertson L.W., Russell G.K., Jeyabalan J & Gupta R.C., The 4th PCB Conference: Recent Advances in the Environmental Toxicology and Health Effects of PCBs., page 54, Zakopane, Poland, September 6-10, 2006.

Bergheim, I., Luyendyk, J.P., Steele, C., Russell, G.K., Guo, L., Roth, R.A., Arteel, G.E.: Metformin prevents endotoxin-induced liver injury after partial hepatectomy. *J Pharmacol Exp Ther.* Mar; 316(3):1053-61, 2005.

Presentations

Aqil F., Jeyabalan J., Kausar H., Bansal S., Russell G. K., Singh I. P., Vadhanam M. V., Gupta, R.C.: "Sustained-release, multi-layer polymeric implants for heat-labile compounds." AACR annual meeting 2011 Orlando, FL.

Russell, G.K., Vadhanam, M., Gupta, R.C.: "Identification of chemopreventive agents against dibenzo[a,l]pyrene-induced DNA adducts and potential mechanisms." AACR annual meeting 2010 Washington, D.C.

Russell, G.K., Vadhanam, M., Kausar, H., Gupta, R.C.: Systemic, sustained delivery of chemopreventive agent is effective against dibenzo[a,l]pyrene induced-DNA adducts. FASEB annual meeting 2009 New Orleans, LA.

Ravoori S, Ayotte P, Srinivasan C, Pereg D, Robertson L.W., Russell G.K., Jeyabalan J & Gupta R.C.: Recent Advances in the Environmental Toxicology and Health Effects of PCBs, page 54, The 4th PCB Conference, September 6-10, 2006 Zakopane, Poland.

Russell, G.K., Guo, L., Ehringer, W.D., and Arteel, G.E.: Protection of primary hepatocytes from chemical

hypoxia using a lipid vesicle delivery system. Ohio Valley Society of Toxicology annual meeting 2004 Lexington, KY.

Bergheim, I., Luyendyk, Russell, G.K., Guo, L., Roth, R.A., Arteil, G.E.: Metformin prevents endotoxin-induced liver injury after partial hepatectomy. AASLD Abstracts. Hepatology;1232:700-A. 55th Annual Meeting, October 2004 Boston, Massachusetts.