

TEACHING

Molecular Biology, Microbiology Diagnostic Methods Disease Mechanisms and Molecular Pathogenesis

RESEARCH INTERESTS

Enhancing the efficacy of anti-cancer therapy through a) understanding of the molecular responses of cells exposed to clinically used targeted or radiating therapeutic agents, b) designing rational combination strategies that will improve the therapeutic index of clinically used drugs, c) strategies using nanomaterial or biomimetic vehicles for drug delivery.

RELEVANT RECENT PUBLICATIONS

- x Samuel, T., Shaddox, SH, Bass D., Bedi D., Datta P. Topoisomerase inhibitors induce the expression of clinical relevant immunomodulators in colon cancer cells. The Journal of Immunology, May 1, 2020, 204 (1 Supplement)
- x Apalangya VA, Rangari, VK, Tiimob, BJ, Jeelani S, and Samuel, T. Eggshell Based Nanoparticle Engineered Hydroxyapatite and Poly(lactic) Acid Electrospun Fibers as Potential Tissue Scaffold. International Journal of Biomaterials, Volume 11, Article ID 6762575.
- x Bedi D, Henderson HJ, Manne S, Samuel T. Camptothecin Induces PD1 and Immunomodulatory Cytokines in Colon Cancer Cells. Medicines (Basel). 2019 Apr 24;6(2) PubMed PMID: 31022845.
- x Sonni Ali Miller, Jason A. White, Rupak Chowdhury, Dominique N. Gales, Berhanu Tameru, Amit K. Tiwari and Temesgen Samuel. Effects of consumption of whole grape powder on basal and stimulated cytokine secretion in a mouse model of inflammation. JNIM, vol. 11, pp 2018
- x Chowdhury R., Gales D., Paloma V., Miller, S., Yehualaeshet T., Manne U., Francia Gand Samuel T. Bromoethylindole (BEI-9) redirects NF- κ B signaling and inhibits proliferation of colon cancer cells. Apoptosis, 22(12), 1556-1563, 2018. DOI: 10.1007/s10497-017-1427-6.
- x Jores KM, Karanam B, Jones R, Eliche J, Sandey M, Henderson HJ, Samuel T, Temesgen Samuel, Yates C, Bedi D. Phage Ligands for Identification of Mesenchymal Stem Cells and Cancer Associated 4(it)-Q q 8e01.5