

Vivek Kumar Kashyap, Ph.D.

Assistant Research Scientist
Department of Immunology and Microbiology
Institute for Cancer Immunotherapy
University of Texas Rio Grande Valley
School of Medicine

Contact Information

Office: Room 2.239, 5300 North L Street,
McAllen, TX. 78504
Phone: +1 (956)-296-1738
Email: vivek.kashyap@utrgv.edu

Research Focus

My research goal at the Dr. Chauhan lab is to study the fate pre-clinical drug development, chemoprevention, cellular signaling, nanotechnology therapies, diagnostic and prognostic biomarker development for cancers. I am investigating the analysis of HPV genotype prevalence, frequency of HPV 16 E6 genomic variants, and immunological factors causes of cervical cancer disparity, metastasis and drug resistance in RGV women. My work is also focused on understanding the molecular interplay existing between various comorbidity factors, namely, smoking, alcohol and HIV coinfection on the HPV infectivity which are primarily known for the progression of cervical cancer, and identifying new small molecules, which can be used for the prevention and treatment of cancer. Other aspects of my research is to delineate drug resistance mechanisms in cancer cells and to develop targeted delivery of clinical drugs (Piperlongumine, Plumbagin, α -Mangostin and Curcumin using nanotechnology and evaluated their therapeutic efficacy in pre-clinical mouse models).