



Faculty Name: Dr. Victoria Mgbemena

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Position Title: Assistant Professor

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Education:	Degree and Area of Study	Institution Name	Degree Date
	Ph.D., Biomedical Sciences- Microbiology and Immunology	UTHSCSA	2013
	B.S., Biology	Baylor University	2008

Teaching and Research Experience:	Position Title	Institution Name	Position Dates (Beginning and End)
	Adjunct Professor	Dallas Community College District	2018
	Guest Lecturer	UT Dallas	2018
	Postdoctoral Fellow	UT Southwestern Medical Center	2013-2018

**Professional
Publications:**

Mgbemena VE; Signer, RAJ; Wijayatunge, R; Dietrich, M; Laxson, T; Morrison SJ & Ross, TS. Distinct Brca1 mutations differentially reduce hematopoietic stem cell function. Cell Reports (2017). PMID: PMC5267932

Foley SB; Rios JJ; **Mgbemena VE;** Robinson LS; Hampel HL; Toland, AE; Durham L & Ross TS. Use of Whole Genome Sequencing for Diagnosis and Discovery in the Cancer Genetics Clinic. EBioMedicine, (2015). PMID:PMC4444225

Ross, TS & **Mgbemena, VE.** Re-evaluating the role of BCR/ABL in chronic myelogenous leukemia.Molecular & Cellular Oncology. (2014). DOI: 10.4161/23723548.2014.963450

Philips, ST; Hildenbrand, ZL; Oravec-Wilson, KI; Foley, SB; Mgbemena, VE & Ross, TS. Toward a therapeutic reduction of imatinib refractory myeloproliferative neoplasm-initiating cells. Oncogene. (2014). PMID: PMC4025985

Mgbemena, V; Segovia, J; Chang TH; & Bose, S. KLF6 and iNOS regulates apoptosis during respiratory syncytial virus infection. Cell Immunol. (2013). PMID: PMC3744625

Hinojosa,CA; **Mgbemena, V;** Friedline, S; Austad, SN; Miller, RA; Bose, S & Orihuela, CJ. Enteric-delivered rapamycin enhances resistance of aged mice to pneumococcal pneumonia through reduced cellular senescence. Exp Gerontol. (2012). PMID: PMC3490008

Mgbemena, V; Segovia, J; Chang, T; Tsai, S-Y; Cole, G. T; Hung, C-Y & Bose, S. Transactivation of inducible nitric oxide synthase gene by Krüppel-like factor 6 regulates apoptosis during influenza A virus infections. J. Immunol. (2012). PMID: PMC3392426

Segovia, J; Sabbah, A; **Mgbemena, V;** Tsai, S; Chang, T; Berton, M; Morris, I. R; Ting, J. P & Bose, S. TLR2/MyD88/NF-kappa B pathway, reactive oxygen species, K+ efflux activates NLRPR3/ASC inflammasome during respiratory syncytial virus infection. PLoS. One. (2012). PMID: PMC3266238

Chang, T; Segovia, J.A; Sabbah, A; **Mgbemena, V** & Bose, S. Role of cholesterol-rich lipid raft in human respiratory syncytial virus infection. *Virology*. 422: 205-211 (2012). PMID: PMC3249476

Mgbemena, V; Segovia, J; Chang, T & Bose, S. Krüppel-like factor 6 regulates transforming growth factor- beta gene expression during human respiratory syncytial virus infection. *Virology. J.* (2011). PMID: PMC3170303

Echchgadda, I; Kota, S; DeLa Cruz, I; Sabbah, A; Chang, T; **Mgbemena, V**; Chatterjee, B & Bose, S. Anti- cancer oncolytic activity of respiratory syncytial virus. *Cancer. Gene. Ther.* (2009). PMID: PMC28136

Skills:

-Proficient in murine stem-cell transplantation and assaying using Flow Cytometry
-DNA and RNA extraction methods, qPCR, RNA-seq sample preparation and data analysis, Western Blot, ELISA, gel electrophoresis, (primary) cell culture, immunoprecipitation, transformation, RNA interference, murine models