



# Curriculum Vitae

**Faculty Name:** Victoria Mgbemena

**Work Address:** P.O. Box 519; MS 2210  
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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:

Lopez-Perez G, Wijayatunge R, McCrum KB, Holmstrom SR, **Mgbemena VE**, Ross TS. BRCA1 and TP53 codeficiency causes a PARP inhibitor-sensitive erythroproliferative neoplasm. *JCI Insight*. 2022 Dec 22;7(24):e158257. doi: 10.1172/jci.insight.158257. PMID: 36346676; PMCID: PMC9869974.

Iacobas DA, **Mgbemena VE**, Iacobas S, Menezes KM, Wang H, Saganti PB. Genomic Fabric Remodeling in Metastatic Clear Cell Renal Cell Carcinoma (ccRCC): A New Paradigm and Proposal for a Personalized Gene Therapy Approach. *Cancers (Basel)*. 2020 Dec 8;12(12):3678. doi: 10.3390/cancers12123678. PMID: 33302383; PMCID: PMC7762545.

Holmstrom SR, Wijayatunge R, McCrum K, **Mgbemena VE**, Ross TS. Functional Interaction of BRCA1 and CREBBP in Murine Hematopoiesis. *iScience*. (2019);19:809-820. doi:10.1016/j.isci.2019.08.031

Wijayatunge R, Holmstrom SR, Foley SB, **Mgbemena VE**, Bhargava V, Perez GL, McCrum K, Ross TS. Deficiency of the Endocytic Protein Hip1 Leads to Decreased *Gdpd3* Expression, Low Phosphocholine, and Kypholordosis. *Mol Cell Biol*. (2018). PMCID: PMC6234285

**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). PMCID: 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). PMCID: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<sup>+</sup> efflux activates NLRP3/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 tissue assays 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, transduction, RNA interference, murine models