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Citizenship: U.S. Citizen



A. Professional Preparation

Degree	Year	University	Major
Ph.D.	1987	University of Manchester, UK	Microbiology/Plant Pathology
B.Sc. (Hons)	1982	University of Lagos, Lagos, Nigeria	Botany

B. Appointments

04/2008-present	Director, NASA URC, Texas Southern University, Houston, TX
2007-present	Chair, Department of Biology, Texas Southern University, Houston, TX
2006-06/2008	Chief Research Officer, NASA Science & Technology Institute, NRP, CA
2002-present	Professor of Biology, Texas Southern University, Houston, TX
1996-2002	Associate Professor of Biology, Texas Southern University, Houston, TX
1990-1995	Assistant Professor of Biology, Texas Southern University, Houston, TX
1988-1990	Postdoctoral Fellow, University of Alberta, Edmonton, Canada
1983-1987	Graduate Teaching Assistant, University of Manchester, Manchester, UK
1982-1983	Biology Teacher, Amuwo Grammar School, Amuwo, Lagos, Nigeria

Professional Honors and Awards

2003-2004	NAFEO Ames Research Academy Fellow, NASA Ames Research Center Project Title: "Toxicological Assessment of Carbon Nanotubes"
2002-2003	NAFEO Ames Research Academy Fellow, NASA Ames Center Project Title: "Development of Technology at the Nanoscale level for detection of Fungi and other microorganisms"
2002	NASA Administrator's Fellow, NASA Ames Research Center Project Title: "Sequence based characterization of the yeast deletion strains"
2001 Fall	NASA Administrator's Fellow, NASA Johnson Space Center Project Title "Uptake of Soluble silicon by hydroponically grown wheat"
2001	NASA ASEE Summer Faculty Fellow, NASA Johnson Space Center Project Title: "Uptake of Soluble silicon by hydroponically grown wheat"
2000-2001	Visiting Scientist, NASA Johnson Space Center Project Title: Effects of Soluble silicon on hydroponically grown wheat
1993	Visiting Professor Michigan State University, East Lansing, Michigan Project Title: Biosynthesis of Camalexin
1988-1990	Postdoctoral Fellowship, University of Alberta, Edmonton, Canada Project Title: The Relationship between Conidial Concentration and Phytoalexin Production by <i>Camelina sativa</i> . (The camalexins)
1983-1987	Graduate Student, University of Manchester, Manchester, England Ph.D. Thesis: The Relationship Between Mycelial Morphology, Hyphal Extension and Virulence of Fungal Pathogens
1982-1983	Biology Teacher, National Youth Service Corp. Lagos, Nigeria

C. Selected Publications

1. Sarkar S, Sharma SC, Yog R, Preiakaruppan A, Barrera EV, Jejelowo O, Thomas RL, Rice-Ficht A, Wilson BL and Ramesh GT. (2007) Analysis of Stress Responsive Genes Induced

- By Single Walled Carbon Nanotubes in BJ Foreskin Cells, *J Nanoscience and Nanotechnology*, 7: 584-92.
2. Gharizadeh B, Herman ZS, Eason RG, Jejelowo O, Pourmand N. (2006) Large-scale Pyrosequencing of Synthetic DNA: A Comparison with Results from Sanger Dideoxy Sequencing. *Electrophoresis*, 15: 3042-7.
 3. Gharizadeh B, Zheng B, Akhras M, Ghaderi M, Jejelowo O, Strander B, Nyrén P, Wallin KL, Pourmand N. (2006) Sentinel-base DNA genotyping using multiple sequencing primers for high-risk papillomaviruses. *Molecular and Cellular Probes*. (3-4): 230-8.
 4. Manna SK, Sarkar S, Barr J, Wise K, Barrera EV, Jejelowo O, Rice-Ficht AC, and Ramesh GT. (2005) Single Walled Carbon Nanotube Induces Oxidative Stress And Activates Nuclear Transcription Factor-kappaB In Human Keratinocytes. *Nano Letters*, 5(9): 1676-84.
 5. Eason RG, Pourmand N, Tongprasit W, Herman ZS, Anthony K, Jejelowo O, Davis RW and Stolc V. (2004) Characterization of synthetic DNA bar codes in *Saccharomyces cerevisiae* gene-deletion strains. *Proc Natl Acad Sciences USA*, 101(30): 11049-51.
 6. Jejelowo O, Stolc V and Anthony K. (2004). Fungal Detection Based on Quantitative Phenotypic Analysis of the yeast deletion strains. *Habitation*, 9(3-4): 193. (Abstract).
 7. Jejelowo O, Barta D, Olonilua O, Anthony K, Jones A and Henderson, K. (2004) Effect of soluble silicon on Growth of Wheat (*Triticum aestivum* L. cv. USU Apogee). *Habitation*, 9(3-4): 135 (Abstract).
 8. Henninger D, Meyyappan M, Barrera E, Davis D, Jejelowo O, Stolc V, Barta D and Pierson D. (2004) Management of Microorganisms in a Closed Environment. *Habitation*, 9(3-4): 194 (Abstract).
 9. Thomas C, Gharizadeh B, Ott M, Pierson D, Pourmand N and Jejelowo O (2006). Fungal Detection and Identification by Nucleic Acid Based Assays. *Habitation*, 10: 217-18

D. Patent Pending

Jejelowo OA, Gharidazeh B and Pourmand N (2005). Detection and Identification of 12 *Stachybotrys* species.

E. Research Grants Awarded – Extramural Funding \$1,921,000

1. Jejelowo OA. (2008-10). Texas Higher Education Coordinating Board, ARP. Video-Based Surveillance in Distributed Environments. (\$149,944) in collaboration with U of Houston
Jejelowo OA. (2007-09). NSF: Partnership for Innovation in Biotechnology and Life Sciences. \$25,000. PIBLS institutions UH Clear Lake, TSU, and is led by San Jacinto College, (Total funding at \$0.5 M)
2. Jejelowo OA. (2002-09). NASA-URETI TiiMS: Biotechnology in Space. (TSU \$875,000). Development of Biochemical Sensors for Life Detection and Radiation Sensing (Funded by NASA. Consists of six institutions led by Texas A & M University, funded at \$15 million for five years. Director: Dr. Lagoudas)
3. Jejelowo O: PI, NASA Research Center for Biotechnology and Environmental Health, Management of Microorganisms in Closed Environment, NASA 2003-08, \$650,000.(Funded by NASA \$6M for 5 years, Director, Dr. Bobby Wilson, 2003-04/2008)
4. Graduate Students Training Grant. Funded by NAFEO. 2003-05, \$100,000
5. NASA Administrators Fellowship Program Faculty Research Award. Funded by the United Negro College Funds Special Program Corporation. 2002-04. Nanotechnology and Functional Genomics Research, \$25,000
6. Research Grant by NASA 2000-03. “Mold Development in hydroponically grown graminaceous crop plants,” \$134,000
7. Research Grant by NASA 2000-03. “Uptake of Soluble Silicon by hydroponically grown graminaceous crop plants,” \$112,000