

Shange R. and R.O. Ankumah. 2012. Assessing the structure and membership of soil microbial communities cultivated under an industrial poultry production system: ASA Southern Regional Branch Meeting 2012. Birmingham, AL.

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Jones S., Shange R., and R.O. Ankumah. 2012. Assessing soil functional status across an agroecosystem using soil phosphatase enzyme activity: ASA Southern Regional Branch Meeting 2012. Birmingham, AL.

Keith J., Odom L.J., Ankumah R.O., and Shange R. 2012. Influence of Transgenic (Bt) and Non-Transgenic Cotton on Soil Phosphodiesterase Activity Over a Growing Period: ASA Southern Regional Branch Meeting 2012. Birmingham, AL (Award-winning presentation).

Shange R.(2011)Assessing the impacts of agricultural land use on the structure and composition of soil microbial ecosystems: a multiple case study in coupled human-terrestrial systems Tuskegee University, Tuskegee, IA

Shange (Shirk)R. (2006).The Political Reality of Modern Biology Howard University Washington, DC(Unpublished Manuscript)

GRANTS & FUNDED PROJECTS

Co-PI (10%). Tuskegee University Black Belt Photoirrigation Project (T-BBP). Natural Resource Conservation Service-USDA Conservation Innovation Grant program. Total Direct Costs: \$1,868,523 PI: Walter Hill, Ph.D

Participating Faculty (5%). Decision pending Tuskegee University Jobs Accelerator Project. Rural Development USDA Rural Jobs Accelerator Challenge PI: Walter Hill, Ph.D.

COURSES TAUGHT

Genetics
Cell and Genetic Biology
Math, Computers, and Bioscience
Introduction to Soil Science Lab
Molecular Cell and Genetic Biology Lab
Environmental Biology Lab (Team Taught)
Introduction to Human Biology (for non-majors)
General, Organic, and Biochemistry (for non-majors)

PROFESSIONAL ASSOCIATION MEMBERSHIPS

xEcological Society of America
xSoil Science Society of America
xAmerican Society for Microbiology
xAlabama Academy of Science

AWARDS/ACHIEVEMENTS

xU.S. Fish and Wildlife/Wildlife Society Faculty Fellow (Summer 2012)
xTuskegee University/University of California at Davis CREATE CERT Trainee in biotechnology/environmental sustainability October 2008
x66th Profession Agriculture Workers Conference Graduate Student Oral Presentation Competition: Third Place December 2008
xRonald E. McNair Graduate Fellow (2004)

SOFTWARE/COMPUTING COMPETENCIES

Bioinformatic software packages/algorithms:
xRelated to microbial ecology:
o MOTHUR, Ribosomal Database Project Sequencing Pipeline, QIIME, FastUnifrac
xMore generalized tools that can be used with many biological systems:
o Geneious, JBrowse, Velvet Assembly, NCBI Databases, UCSC Genome Browser, and other online applications.

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