

Sam I. McNeal, Jr., BS

Pathobiology Graduate Program - Pre-doctoral Student
AYALA LAB

Division of Surgical Research

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Primary Research Field

Pathology of Organ Injury, Apoptosis in critical illness

Education

Bachelor of Science in Biology, Georgia State University, Atlanta, GA, May 2006

Professional Experience

Undergraduate Research: Investigated role of PCAF and CBP on S8 subunit of 19S lid of 26S proteasome and Researched role of dominant negative TRAF 6 on Major Histocompatibility Complex class II Transactivator (CIITA)

Advisor: Dr. Susanna Greer, Biology Department, *Georgia State University, Atlanta, GA 30302; January 2005-May 2006*

Graduate Research Rotation: Experiments were undertaken to identify those genes expressed by host cells that modulate (promote or suppress) the intracellular replication of bacteria. Two hepatocyte cell lines were transfected with a series of microRNAi and the subsequent ability of *Listeria monocytogenes* to replicate intracellularly was determined.

Advisor: Dr. Stephen H. Gregory, Department of Biology and Medicine Brown University, Providence, RI; June-August 2006

Graduate Research: This study includes FACS and Western Blot analysis, cecal ligation and puncture (CLP) and Sham surgical procedures in mice.

Thesis Advisor: Dr. Alfred Ayala; September 2006-present

Awards, Fellowships, Grants

Alliance for Minority Participation Academic Scholarship (1999).

Georgia State University Faculty Scholar (2004).

Annual Biomedical Research Conference for Minority Students Travel Award (2005).

National Dean's List (2005).

IMSD Research Assistantship (2008-2009)

Published Abstracts

1. **McNeil, S., Chung, C.S., Ayala, A.** 2009. RIP1 and inflammation mediated septic liver injury. *FASEB J.* 22:571.3

Presentations

2. **McNeil, S. (Poster presenter), Chung, C.S., Ayala, A.** 2007. Sepsis and cell death: do hepatocytes follow classical pathways or are they influenced by RIP? 17th Annual Retreat for the Graduate Program in Pathobiology at Brown University, Goddard Memorial State Park Carousel/Performing Arts Center, Warwick, RI, Poster presented on August 28th.
3. **McNeal, S. (Presenter), Chung, C.S., Ayala, A.** 2008. Septic morbidity: RIP1 in the regulation of the apoptotic/necrotic hepatocyte cell death. 18th Annual Retreat for the Graduate Program in Pathobiology at Brown University, Goddard Memorial State Park Carousel/Performing Arts Center, Warwick, RI, Poster presented on August 26th.
4. **McNeil, S., Chung, C.S., Ayala, A.** 2009. Poster presentation as a part of Session: 'Inflammation, Immunity and Immunopathology', presentation entitled: "RIP1 and inflammation mediated septic liver injury." at the Experimental Biology conference in New Orleans, LA, April 19th.

Last updated: 6/16/2009