

ELIZABETH A. SAMUEL

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QUALIFICATIONS SUMMARY

Microbiology Ph.D. (Spring, 20xx) with progressive experience in analysis of the regulation of leucine biosynthesis by ppGpp in *Escherichia coli*. Additional research includes restriction endonuclease analysis of the satellite DNA component from two extremely halophilic bacteria. Highly organized, skilled in translating complex scientific concepts into easily understood terms. Work well independently, as well as part of a team. Excellent communication skills. Deadline oriented.

EDUCATION

Ph.D., Microbiology, University of California, Davis. Degree expected Spring 20xx

Master of Science, Microbiology, California State University, Long Beach, August 19XX

EXPERIENCE

University of California, Davis, 6/xx – present

Graduate Researcher

Conceived and optimized novel selection procedures using leu::Mud::lac fusions to isolate 1) mutations in the leucine promoter, and 2) unlinked mutations that give rise to decreased expression of biosynthesis in *Escherichia coli*. Genetically mapped unlinked mutations. Future work involves analysis in an S-30 in vitro system and cloning of the mutants. Dr. Sara Smith, Department of Bacteriology.**

California State University, Long Beach, 9/xx - 8/xx

Graduate Researcher

Isolated and characterized the satellite DNA component from *Halobacterium* sp. by density gradient centrifugation and restriction endonuclease analysis. Dr. Paul Jones, Department of Microbiology.**

Veteran's Administration Medical Center, Long Beach, 9/xx - 9/xx

Research Assistant

Collected, maintained and statistically evaluated data for ongoing studies including drug evaluations, immunological studies, iron therapy studies and studies on long-term dialysis patient care. Dr. James Craig, Medical Hemodialysis.**

Other Experience

Bacteriological Techniques Laboratory, UC Davis, 9/xx - 12/xx

Associate Instructor

Lectured class of 45+ students; demonstrated new techniques. Graded laboratory write-ups.

Bacterial Genetics and Physiology Laboratory, UC Davis, 9/xx - 6/xx

Teaching Assistant

Pre-ran experiments and produced detailed protocols for new experiments. Demonstrated techniques and assisted students in everyday laboratory routines.

PUBLICATIONS*

Smith, S., and **E. A. Samuel**. 19xx. Use of M13mp phages to study gene regulation, structure and function: cloning and recombinational analysis of genes of the E. coli leucine operon. J. Bact. 26: 147.

Samuel, E. A. 19xx. Bacteriological Projects for Biological Sciences 1 Students. (In-house publication)

ABSTRACTS AND PRESENTATIONS*

Samuel, E. A., and S. Smith. Use of leu::lac fusions to isolate leucine operon regulatory mutations in Escherichia coli. Presented at the 19xx Annual Meeting of the American Society for Microbiology.

RESEARCH GRANTS

Co-authored proposal for National Institutes of Health (NIH). Funded \$65,000. (Principal Investigator: William Craig, Ph.D.**)

HONORS

Recipient, Outstanding Graduate Student Teaching Award, UC Davis, May 20xx

PROFESSIONAL AFFILIATIONS/LEADERSHIP ROLES

American Association for the Advancement of Science (AAAS)

American Society for Microbiology (ASM)

Chairperson, Microbiology Graduate Student Association, UC Davis (19xx - present)

UC Student Representative to the Board of Admissions and Relations with Schools

Subcommittee on Research (19xx-19xx)

*If numerous, list only the most relevant and add "Selected" in front of the heading, i.e., Selected Publications or Selected Presentations

**Use name only if well-known in target industry