

ELIZABETH A. SAMUEL

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Department of Bacteriology
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EDUCATION

Ph.D., Microbiology, University of California, Davis. Degree expected Spring 20xx.
Dissertation: Analysis of the regulation of leucine biosynthesis by ppGpp in Escherichia coli.
Advisor: Dr. Sara Smith.

Master of Science, Microbiology, California State University, Long Beach, August 19xx. Thesis:
Restriction endonuclease analysis of the satellite DNA component from two extremely halophilic
bacteria. Advisor: Dr. Paul Jones.

Bachelor of Science, Biological Sciences, University of California, Davis, June 19xx.

AREAS OF SPECIALIZATION

(Optional)

RESEARCH EXPERIENCE

Doctoral Research, UC Davis, 6/xx - present.

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.

Masters Research, CSU Long Beach, 9/xx - 8/xx.

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

Research Assistant, Veteran's Administration Medical Center, Long Beach, 9/xx - 9/xx. 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. Khosrow Mirahmadi, Medical Hemodialysis.

TEACHING EXPERIENCE

Associate Instructor, Bacteriological Techniques Laboratory, UC Davis, 9/xx - 12/xx.

Lectured on and demonstrated new techniques. Graded laboratory write-ups. Dr. William
Wolff, Department of Microbiology.

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

Pre-ran experiments and produced detailed protocols for new experiments. Demonstrated
techniques and assisted students in everyday laboratory routines. Dr. Paul Jones, Department of
Biology.

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.

ACADEMIC SERVICE

- 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).

PROFESSIONAL AFFILIATIONS

- American Association for the Advancement of Science (AAAS).
- American Society for Microbiology (ASM).

RESEARCH GRANTS

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

HONORS

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

REFERENCES

Sara Smith, Ph.D. ssmith@ucdavis.edu
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