

ISAAC K. FRIMPONG

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PERSONAL PROFILE

- Extensive lab work in microbiology and molecular biology.
- Sociable with exceptional interpersonal relationship skills.
- Honest, truthful, and dedicated to work.
- Meticulous with outstanding professionalism.
- Has unique leadership qualities and always ready to learn.

EDUCATION

University of Colorado Denver, Colorado

M.S. (Biology), Certificate (Biotech)

GPA 3.747

12/07

University of Cape Coast, Ghana

M. Phil. (Botany)**

GPA 3.60

11/1998

B. Sc. (Botany), Diploma (Education)

06/1984

RELEVANT COURSES

- Molecular Genetics
- Molecular Biology + Lab
- Medical Microbiology
- General Microbiology
- Biotechnology
- Virology
- General Biochemistry I & II
- Immunology

ACADEMIC PROJECTS

- **Field Study** – Studied heritability among groundnuts, *Arachis hypogea*.
- **Field Study and Lab Work** – Assessed the “Effect of virus-infected cocoa on microbial numbers of the Rhizosphere” in the laboratories of the Cocoa Research Institute of Ghana (CRIG) and the Green House of the Botany Department, UCC, Ghana. I estimated numbers of protozoans by the Most-Probable-Number method and enumerated bacteria and fungi using the serial dilution plating method.
- **Lab Work** – Cloned Green Fluorescent Protein (GFP) open reading frame (ORF) from pGLO into pGEM. Used various cloning techniques including Western blotting, Southern blotting, DNA quantification, DNA Sequencing, sequence analysis (BLAST), SDS-PAGE, and Agarose gel electrophoresis.
- **Presentations** - Lectured my class on the topic “Acquired Immune Deficiency Syndrome: Pathogenesis, Immunity, and Treatment”; gave class poster presentations on “Antigen processing and presentation: the cytosolic and endocytic pathways” and “Posttranslational transport of Proteins from the Cytosol into the Mitochondria”

PROFESSIONAL EXPERIENCE

Lab technician (Intern), UCD Pharmaceutical Department lab 01/2007-05/2007

- Cloned dominant/negative TNFR1 molecule into a gene expression system for the study of rheumatoid arthritis (RA). Used bacterial culture techniques, Agarose gel electrophoresis, Bacterial DNA prep, Restriction enzyme digestion, Ligation, Transformation, PCR, and Primer design regularly under the supervision of Dr. Scheinman.

Lab technician (Intern), UCD Microbiology lab 06/2006-08/2006

- Used spectrophotometer to measure NAD/NADH (energy) levels in various *Mycobacterium tuberculosis* (Mtb) cultures grown under experimental conditions. Also used PCR, Gel electrophoresis, Restriction enzyme digestion, Ligation and Bacterial transformation on a daily basis during an internship in Dr. Voskuil's lab for cloning work.

Teaching Assistant, University of Cape Coast, Ghana 10/1993-05/1997

- Organized projects for undergraduate students and assisted final year students in experimental design, data collection and analysis, and thesis writing. Used Minitab and Free Lance lotus in the analysis.
- Took part in a plant tissue culture project at the Biotechnology Center, UCC. We cleaned, stored, manipulated explants, prepared media and transferred rooted cultures to potting mix for acclimatization.

Examiner, West African Examination Council, Ghana. 09/1988-10/1998

- Marked General Science and Biology examination scripts of Junior and Senior High School students.

Teacher/Trainer, Ghana Education Service. 01/1985-10/1998

- Implemented lesson plans and managed classrooms and labs.
- Attended weekly staff meetings and discussed performance of students.
- Trained elementary school teachers in the teaching of Science.

HONORS AND AWARDS

Member, National Association of Graduate Teachers.	1994
Member, Ghana National Association of Teachers.	1993
Member, Ghana Science Association.	1992

REFERENCES: Upon request.