Selene Virk, MS
Department of Biology
P.O. Box 30001 MSC 3AF
New Mexico State University
Las Cruces, New Mexico, 88003

Education

2007-current	New Mexico State University (NMSU), Ph.D. Biology
1998	NMSU, M.S. Biology
1996	NMSU, B.S. Biology

Software Engineering

Eight years experience as software developer with expertise in Object Oriented development and design, Multi-tier web site development, Project management, Agile development methodologies, Genomic and Transcriptomic Annotation, User Interface Design, Database development, and Software Testing.

Laboratory Research

Five years experience as laboratory research assistant with skills in High Performance Liquid Chromatography, SDS-PAGE, Western Blot, blood cell isolation using density gradients, enzymatic activity assays, genomic library screening, and PCR.

Teaching Experience

Instructed junior level health science course at NMSU in which I was responsible for developing and delivering all class lectures, creating exams and quizzes, and assigning final grades. TA for two sections of undergraduate chemistry laboratory at NMSU. Taught summer course for Native American students in grades 6-12 that incorporated computer tools to teach genetics and basic molecular biology.

Fellowships and Traineeships

2007-present	Integrative Graduate Education and Research Traineeship Fellowship, funded by NSF
1998	MBRS Graduate Research Assistant Traineeship, funded by NIH
1995-1996	MARC Undergraduate Research Assistant Fellowship, funded by NIH
1995 and 1998	National Institute of Diabetes, Digestive, and Kidney Diseases Travel Fellowship, funded by NIH
1993-1994	MBRS Undergraduate Research Assistant Traineeship, funded by NIH

Publications and Presentations

The Legume Information System (LIS): An Integrated, Dynamic Comparative Legume Information Resource. Gonzales M.D., Gajendran K., Farmer A., **Virk S.**, Grant D., Shoemaker R., Beavis W.D., and May G.D. Plant and Animal Genome XV Conference, San Diego, California 2007

Transcriptome Analysis Tools: Visualization and Management of Ultra-High Volume of DNA Sequence Data. Khrebtukova I., Haudenschild C.D., Nelson W., **Virk S.M.**, Johnson M., Moon K., and Vasicek T.
International Society for Computational Biology, Detroit, Michigan 2005

Characterization of 12-lipoxygenase in bullfrog erythrocytes. Experimental Biology '98, San Francisco, California 1998

Endogenous leukotriene synthesis in all nucleated blood cells of the bullfrog (Rana catesbeiana). Experimental Biology '95, Atlanta, Georgia 1995

Thrombocytes are the predominate source of sulfidopeptide leukotrienes in the bullfrog (Rana catesbeiana). Gronert K., **Virk S.M.**, and Herman C.A. Biochim Biophys Acta. 1995 Dec 7;1259(3):203-10.

Endogenous sulfidopeptide leukotriene synthesis and 12-lipoxygenase activity in bullfrog (Rana castesbeiana) erythrocytes. Gronert K, **Virk S.M.**, and Herman C.A. .Biochim Biophys Acta. 1995 Apr 6;1255(3):311-9.