JACQUELINE L. JOHNSON

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OBJECTIVE

To become a full time research assistant with a focus in molecular biology, genetics, microbiology and/or biochemistry

EDUCATIONAL BACKGROUND

University of Northern Colorado; Greeley, Colorado; Graduate May 2010
B.S. Molecular and Cellular Biology
Minor in Chemistry

Arapahoe Community College; Littleton, Colorado; August 2005 – May 2006

University of Colorado in Denver; Denver, Colorado; August 2004 – May 2005

AWARDS / FELLOWSHIPS / GRANTS

Tri-Beta Research Scholarship for work with Malaria at University of Northern Colorado, Amount $500.00, Fall 2009.
NHS Undergraduate Scholarship for research with Malaria at University of Northern Colorado, Amount: $1,740.00, Spring 2009.
Regents Scholarship from University of Colorado**,** 2004.
Math and Science Award from Colorado School of Mines, 2003.

PUBLICATIONS AND PRESENTATIONS

Manuscript in progress for **"Natural Variations in the rice FtsH3 protease and its role in biomass."** 2nd Author.
Awarded 1st place in the **Colorado Centers for Biofuels and Biorefining poster session** at University of Colorado, Boulder, Colorado. 2009.
Awarded 1st place in the **2009 BBB Western District Regional Research Conference poster session** at Fort Lewis College, Durango, Colorado. 2009.

RELEVANT RESEARCH EXPERIENCE

Full Time Research Intern in a 10 Week REU Program ♦ Summer 2009
Colorado State University
Dr. Jan Leach
http://www.c2b2web.org/
• Investigated the role of rice FtsH3 protease in biomass production to guide future improvement of more intractable bioenergy crops.
• Silenced rice FtsH3 gene in rice seeds using genetically engineered agro bacterium to observe phenotypic result.
• Sequenced rice genomic DNA and identified single nucleotide polymorphism within rice FtsH3 gene.

Student Researcher ♦ Spring 2008 - Present
University of Northern Colorado
Dr. Susan Keenan
http://www.unco.edu/nhs/biology/faculty_staff/keenan_susan.htm
• Designing an edible malaria vaccine. Using a three pronged approach by targeting key proteins within each stage of the parasites, *Plasmodium falciparium*, lifecycle.
• Isolated genes MSP-1 (from the blood stage) and Pfs25 (from the sexual stage) from the protozoan *Plasmodium falciparium*.
• Designed primers that contained EcoR1 splice site for Pfs48/45 and MSP1(19) proteins within *Plasmodium falciparium* for isolation later this semester.

LEADERSHIP

• President of Tri-Beta Biology Research Club at the University of Northern Colorado

QUALIFICATION HIGHLIGHTS

• Detailed knowledge and experience in laboratory techniques and protocols such as: sterile technique, gene cloning, gene isolation, transformations, cell culturing, PCR, gel electrophoresis, western blots, and others.
• Familiar with general laboratory equipment such as: thermo cyclers, centrifuges, digital scales, autoclave machines, nano-drop technology, pipettes, microscopes, and others.