

Joshua M. Bowers

jshbwr@dordt.edu

EDUCATION Bachelor of Arts degree, Dordt College, Sioux Center, Iowa

Major: Molecular Biology

Expected May 2010

Overall GPA: 3.85/ Science GPA 3.8 on a 4.0 scale

Awards and Honors: Dordt College Presidential Scholarship
Dordt College Baseball Athletic Scholarship
Minnie Dahm Premedical Scholarship

Certifications: CNA, CPR, and First Aide

Relevant Course Work: Molecular Biology and Biotechnology; Cell Biology;
Biochemistry; Human Anatomy and Physiology; Genetics; Organic Chemistry;
Microbiology

LAB SKILLS

Gel Electrophoresis - PCR - Applied Genetics - Cytogenetics - Culture and Cross-Breeding Fungi - Genotype Analysis - Vermier Computer Data Analysis - Analytical Measurements - Mathematical Modeling - Molecular Modeling - Dissection - Kinematics of Chemical Reactions - Sterile Techniques - Inoculations, Plate Cultures - Colony Counting - Recombinant DNA technology - Restriction Digestion - Ligation - PCR - Agarose and Polyacrylamide gel electrophoresis - E. coli culture - electroporation - DNA purification: genomic and plasmid - Western Blotting - Mammalian cell culture - transfection - HPLC - Spec-20 - GC - Titrations.

EXPERIENCE **Research:**

Dordt College NCUR project. *Biomass solid acid catalyst for biodiesel production*. Summer of 2007.

The summer objective was to create a solid acid catalyst made of cornstalks which could be used to produce biodiesel out of used vegetable oil. The techniques used to analyze product samples included HPLC, Spec-20, GC, and titrations. The progress made in the use of solid acid catalysts was presented at local, regional, and national conventions.

Extracurricular/Volunteer:

Big Brother Big Sister Program	Fall 06 - present
Sunday School Teacher	Fall 06 - present
College Varsity Baseball	Fall 06 - present
Pre-med club	Fall 06 - present, 07-08 Jr. Representative, 08-09 President
Sports Ambassador	China - Summer 2002
Sports Ambassador	Holland - Summer 2000

Employment History:

Crew Leader	All About Lawn Care, Colorado Springs, Co	Summer 05, 06, 08
Undergraduate Research	Dordt College, Sioux Center, IA	Summer 07
Maintenance	Black Forest Auto Center, Black Forest, CO	Jan. - May 2005
Handy Man	Thom's Home Repair, Colorado Springs, CO	Jan. 2000-2005

REFERENCES Available upon request