

# Jacob D. Zobrist

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Cell: 712-363-0322  
Email: jzobrist3@gmail.com

## EDUCATION

**Iowa State University; Ames, Iowa**

**B.S. May 2012**

**Major:**

- Undergraduate Biology Agriculture & Life Science

**Drake University; Des Moines, Iowa**

**2008 to 2009**

**Major:**

- Undergraduate Health Sciences – Clinical and Applied Sciences Track

**Leadership:**

- Leader of Research Carnivorous Plant Club; Safety Coordinator for Dr. Rodermel's Laboratory; Membership Representative Iowa State University Weight Club; Get Motivated Business Seminar; Philanthropy Chair Sigma Chi; Special Events & Public Relations Coordinator Sigma Chi Fraternity; Intramural Chair Sigma Chi

**Awards:**

- Iowa Academy of Sciences Speaker; Friends of Lakeside Volunteer Award; Dean's List; Iowa Wendy's High School Heisman Top 10 Finalist; National Honor Society Master of Ceremonies; President's Education Award; Exemplary Attendance Award; Taekwondo Black belt

## PROFESSIONAL EXPERIENCE

**Department of Genetics, Development and Cell Biology  
Researcher**

**Undergraduate  
October 2010 to present**

- Work with *var2* and *immutans* mutants in Arabidopsis; DNA, Protein and Plant Pathway analysis; NAD(H) and NADP(H) Concentration Determination; Chlorophyll and Carotenoid Concentration Determination; DNA and RNA Extraction; Southern, Northern and Western Gels and Blots; Seed Sterilization and Plating; Buffer Preparation: CTAB Buffer, TE Buffer, Tris Buffer, & EDTA Buffer; Transformation of Arabidopsis Transfer DNA Insertion Analysis; Primer Design; Radiation Safety Awareness Training for Radiation Laboratory Workers; Management of Unwanted Materials for Laboratory Personnel

**Lakeside Laboratory Internship  
Water Chemist**

**May 2010 to September 2011**

- State certified to perform water nutrient and bacteria analysis; work with Department of Natural Resources and volunteer groups doing sample collection; experience working on community projects and with public; Ortho and Total Phosphate Analysis; Total Suspended and Dissolved Solids Analysis; Nitrate and Nitrite Analysis; Algae Analysis E. Coli Bacteria and Total Coliform Analysis; Dissolved Oxygen; Water Clarity Measurement; Water Temperature Measurement

**DuPont Pioneer  
Research Associate**

**August 2012-August 2017**

Plant transformation Department with the insect control group. Worked with multiple inbreds to create transgenic Zea mays through *Agrobacterium* and particle gun mediated transformation. Proficient with tissue culture steps plasmid vector construction and media recipes. Worked with developmental genes Babyboom and Wushel. LEAN and Six Sigma

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### **COMMUNITY SERVICE AND INTERESTS**

**Community Service:**

- Cooperative Lakes Area Monitoring Program; Jon Huntsman Cancer Institute; Children's Miracle Network; Make a Wish Foundation; Habitat for Humanity; Susan G. Komen for the Cure; Service for Sight; Run for the Roses

**Organizations:**

- Biological Sciences Club; Carnivorous Plant Club; American Society of Plant Biologists; Iowa Academy of Sciences; ISU Weight Club; ISU Wrestling Club; Sigma Chi Fraternity; Health Science Student Organization; Secretary Drake Political Groups; Methodist Men; Habitat for Humanity

**Other:**

- Northwest Iowa Youth Soccer Association Referee and Coach; Spencer Youth Baseball and Softball Association Umpire