

# Anastasia L. Bodnar

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## Education

### Iowa State University

*Doctorate of Philosophy* (Genetics, Minor in Sustainable Agriculture)

Ames, IA  
August 2011

### University of Maryland

*Bachelors of Science* (Biological Sciences)

College Park, MD  
May 2006

## Experience

### National Institutes of Health

*Presidential Management Fellow* (GS-09)

Bethesda, MD  
August 2011 to present

- Lead the NIH-wide committee for the USA Science and Engineering Festival with a budget of \$15,000 and an expected attendance of 500,000.
- Serve as team leader for the Deputy Director of Management (DDM) Seminar Series, including supervising data collection for 50 nominated speakers and creation of a report for the Seminar Committee.
- Coordinate the Management Seminar Series 2012 seminar “Work-Life Balance” with 160 attendees.

*Public Affairs Specialist* (Rotation in NICHD/OSPAC/PIC)

September 2011 to December 2011

- Create new media and logo policies that incorporate regulation and policy from the institute to federal levels and that provide concrete guidance to staff.
- Work on a team to inventory the content of the NICHD website, including development of Pivot Tables to summarize the resulting data.

*Program and Grants Management* (Rotation in NHGRI/ER/EPB)

January 2011 to present

- Work with Program to review applications, develop a funding plan, and take applications to Council.
- Work with Grants Administration to conduct pre-award review, request JIT, and work with Budget spreadsheets and IMPAC to document review.

### Iowa State University

*Administrative Assistant*

Ames, IA  
May 2011 to August 2011

- Mentor 10 undergraduate students in the NSF funded Research Experience for Undergraduates program.
- Organize and run orientation and in-processing to the university.
- Plan and implement weekly lunch seminars with professors and bi-monthly educational field trips.
- Compose guidelines for grant proposals and interpretive summaries of research.

*Teaching Assistant*

January 2011 to May 2011

- Lead 24 undergraduates in experiments on topics ranging from biochemistry to mammalian physiology.
- Use WebCT software to administer assignments and distribute course content.

*Graduate Research Assistant*

May 2006 to August 2011

- Independently design a variety of field and laboratory experiments and conduct statistical analysis of data.
- Write standard operating procedures for laboratory protocols.
- Collaborate with diverse researchers across the country, resulting in two peer-reviewed publications to date.
- Selected in Fall 2008 to attend the National Science Foundation’s Debating Science program for showing strong potential in science communication, bioethics, and science policy.
- Create publications, posters, and presentations using Microsoft Office and Apple iWork suites of software.

### Iowa Army National Guard - 671st Troop Command

*Recruit Sustainment Program Cadre* (Teacher and mentor, E-5)

Camp Dodge, IA  
May 2006 to November 2007

- Prepare new soldiers for basic training through teaching and mentoring. Topics include military custom and courtesy, drill and ceremony, first aid, weapon safety, physical fitness, nutrition, and personal finance.

### University of Maryland - Department of Cell Biology & Molecular Genetics

*Undergraduate Research Assistant*

College Park, MD  
January 2006 to May 2006

- Characterize tDNA insertion mutant lines; part of Arabidopsis 2010.

**USDA - APHIS - Plant Germplasm Quarantine Program** Beltsville, MD  
*Biological Science Technician* (Occupational code 0404, GS-05) October 2005 to May 2006

- Maintain sterile plant lines, screen incoming and outgoing plants for disease.

**Public Health Command Region North - Entomological Sciences Division** Fort Meade, MD  
*Non-Commissioned Officer in Charge* (Program Manager, E-5) November 2003 to June 2005

- Coordinate a West Nile virus surveillance program spanning 20 states.
- Teach continuing education classes on preventive medicine surveillance techniques to groups of 5 to 30.
- Received the Non-Commissioned Officer of the Quarter award in Spring 2005 for excellence in leadership, job performance, military bearing, and knowledge of military tradition.

**8th US Army - 5th Medical Detachment** Yongsan Garrison, Republic of Korea  
*Preventive Medicine Specialist (68S) and Team Leader* (E-4) October 2002 to October 2003

- Schedule over 100 health, safety, and retrograde inspections at 20 military installations for 20 soldiers.
- Develop a scheduling and tracking system that allowed inspectors to meet regulatory requirements.
- Communicate inspection results to commissioned and non-commissioned officers in charge of facilities.
- Graduated in the top 10% of the class at Primary Leadership Development Course. Coursework included leadership, problem solving, mediation, and public speaking.

**US Army Reserve - 788th Medical Detachment** St. Petersburg, FL  
*Preventive Medicine Specialist and Team Leader* (E-4) November 1999 to January 2002

- Lead a team of five preventive medicine specialists in conducting field and garrison inspections.

### Selected Activities

**Biofortified.org** Madison, WI  
*Co-Founder, Co-Executive Editor, and Author* November 2008 to present

- Provide consumers with science based information about genetic engineering, plant biology, and agriculture on a website that receives more than 15,000 visits per month.
- Provide editorial services and advice on science communication to scientists.
- Organized the Tomorrow's Table Mini-Symposium at Iowa State University to promote discussion about genetic engineering. Raised \$7000 in funds from 15 organizations and departments.
- Grand prize winner of the Ashoka Changemakers "GMO: Risk or Rescue? Helping Consumers Decide" contest in November 2009 for excellence in communicating the risks and benefits of biotechnology.
- Selected in March 2010 by the Maize Genetics Community to develop and implement a social media strategy to encourage educational exchange about maize genetics.

**Iowa State University – Graduate and Professional Student Senate** Ames, IA  
*President* April 2010 to April 2011

- Represent graduate and professional students to university administrators.
- Participate in many university committees pertinent to graduate students, including Memorial Union Board of Directors, University Budget Advisory Committee, and the Special Student Fee and Tuition Committee.

*Senator for Interdepartmental Genetics* October 2007 to April 2010

- Represent the graduate students in the Interdepartmental Genetics program.
- Member, Rules Committee from September 2009 to April 2010: determined the legality of proposed legislation with regard to laws and constitutions from the school to federal levels.
- Member, Committee on Lectures from February to July 2010: allocated over \$100,000 to over 130 speakers.

**Iowa State University - Student Veterans of America** Ames, IA  
*Co-Founder and Veterans Task Force Member* February 2008 to July 2011

- Provide recommendations to the university and develop on-campus resources.
- Help veterans acclimatize to school life and increase community awareness of veterans' issues.
- Help create the Colonel Pride Veterans Lounge in the Memorial Union, dedicated in January 2010.

## Publications

Bodnar AL, Proulx AK, Scott MP, Reddy MB. Iron bioavailability of maize hemoglobin using a Caco-2 cell culture model. (journal submission pending)

Bodnar AL, Schroder MH, Scott MP. Recurrent selection for transgene levels in maize results in proxy selection for a native gene with the same promoter. (journal submission pending)

Bodnar AL. Novel approaches to improving qualities of maize endosperm (PhD thesis). *Iowa State University*. July 2011.

Bodnar AL. Risk assessment and mitigation of AquAdvantage salmon. *Information Systems for Biotechnology News Report*. October 2010 (Special Issue).

Hoffman PC, Esser NM, Shaver RD, Coblenz WK, Scott MP, Bodnar AL, Schmidt RJ, Charley RC. Influence of ensiling time and inoculation on alteration of the starch-protein matrix in high moisture corn. *Journal of Dairy Science*. 2010 July; 93:726.

Bodnar AL, Scott MP. Using mutations in corn breeding programs. *The Handbook of Plant Mutation Screening*. Ed. Meksem K, Kahl G. Wiley, 2010.

Flint-Garcia SA, Bodnar AL, Scott MP. Wide variability in kernel composition, seed characteristics, and zein profiles among diverse maize inbreds, landraces, and teosinte. *Theoretical and Applied Genetics*. 2009 Oct;119(6):1129-42.