

# Melissa Gray

---

Address: 1274 Hereford Ct. Canton, MI, 48187

Phone: (734) 664-3148

Email: [graymell@msu.edu](mailto:graymell@msu.edu)

---

**Profile:** Melissa is an undergraduate student in her junior year at MSU. She is interested in the field of Plant Biology, its exciting growing field of study and exploring different types of plant research.

## Education:

- **Michigan State University:** East Lansing, MI. **GPA: 3.76**
  - B.A., Plant Biology- Molecular and Cellular Biology
    - 2011-2015 (anticipated)
- **Father Gabriel Richard High School:** Ann Arbor, MI. **GPA: 3.6**
  - High School Diploma
  - AP Biology (5)
  - AP Chemistry (4)

## Undergraduate Independent Research:

- **Brandizzi Lab:** MSU 5/2013-Present
  - Worked to set up a Yeast One Hybrid Gateway Compliant System
    - Mating of two types of yeast (bait and prey) to determine which transcription factors could aid in the Unfolded Protein Response of *Arabidopsis thaliana*

## Occupational Experience:

- **Research Assistant:** PRL Department, Brandizzi Lab, MSU 5/2013-Present
  - Assistant to Sang-Jin Kim, a Post Doctorate in the Brandizzi Lab
  - Performs cloning with PCR on *E. coli* constructs
  - Performs PCR yeast colony screening
  - Prepares media for yeast, *E. coli*, and *A. thaliana*
  - Performs collection and screening of *A. thaliana* EMS mutant lines for work on the determination of genes that can enhance or suppress growth
  - In charge of *A. thaliana* and *Linum usitatissimum* upkeep including planting, weekly maintenance, and seed collection
- **Lab Assistant:** PRL Department, Brandizzi Lab, MSU, 2/2013-5/2013
  - Managed accounts and orders
  - Performed daily lab maintenance
  - Organized lab materials
  - Disposed of biohazardous waste
- **ORCBS Training:** Online 2/2013

- Autoclave Safety
- Security Awareness
- Hazardous Waste Initial Training

**Extracurricular:**

- **Intramural Football:** Fall 2012
- **Varsity Lacrosse:** Spring 2010
- **Cooking Club:** Co-Founder, 2009-2010
- **Junior Varsity Soccer:** Spring 2008, 2009