

# Angela M. Mabb

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## EDUCATION

- **University of Wisconsin** Madison, WI  
PhD 2002-2007: *Molecular and Cellular Pharmacology*  
Overall GPA: 3.7
- **Clarkson University** Potsdam, NY  
Bachelor of Science with great distinction May 2002  
*Dual Major: Chemistry and Bio-Molecular Science*  
Overall GPA: 3.8

## RESEARCH EXPERIENCE

**Duke University** Durham, NC. PI: Michael Ehlers  
**Postdoctoral fellow, Duke Neurobiology/Howard Hughes Medical Institute: 2007-Present**

- **University of Wisconsin** Madison, WI. PI: Shigeki Miyamoto  
**Doctoral research, Department of Molecular and Cellular Pharmacology: 2002-2007**
  - Identification of sumoylated proteins in NF- $\kappa$ B signaling pathways.
  - Assessing the role of SUMO ligases and proteases in DNA damage induced NF- $\kappa$ B activation.

- **University of Wisconsin** Madison, WI. Dr. Richard Burgess lab.  
**5-week rotation 2002**
  - Purification and labeling of endogenous core from *E.coli* to assay for potential inhibitors of core using FRET assays.

- **University of Wisconsin** Madison, WI. Dr. Emery Bresnick lab.  
**5-week rotation 2002**
  - Mapping chromatin modifications within the intervening regions of hypersensitive sites on the  $\beta$ -globin locus control region using ChIP assays.

- **University of Wisconsin** Madison, WI. Dr. Randall Tibbetts lab.  
**Summer Rotation 2002**
  - Assessing the role of the transcription factor CREB in ATM signaling.

- **Clarkson University Department of Chemistry** Potsdam, NY  
**Undergraduate work in Dr. Linda Luck's Lab- 2000-2002**
  - Purification of Estrogen Receptor alpha Hormone Binding Domain (ER $\alpha$ -HBD) for fluorinated NMR analysis and for use in a biosensor to detect carcinogenic compounds in the environment.

- **Bristol-Myers Squibb (BMS) Pharmaceutical Research Institute** Hopewell, NJ  
**Internship- Summer 2001**
  - Determining the kinetics of enzyme inhibitor compounds for potential Type II diabetes drugs.

- **University of Connecticut Department of Chemistry REU (Research Experience for Undergraduates) Program** Storrs, CT  
**Undergraduate Research in Dr. Ashis Basu's lab, Summer 2000**
  - Attempt at generating a DNA cross link from partially reduced derivatives of 1,6- and 1,8-Dinitropyrene.
  - Synthesis of 1,6- and 1,8-Dinitropyrene from 1,6- and 1,8-Bromonitropyrene.

## **PUBLICATIONS:**

- 1.) **Mabb AM** and Miyamoto S. SUMO and NF- $\kappa$ B Ties. *Cell Mol Life Sci.* (May 29, 2007).
- 2.) **Mabb AM**, Wuerzberger-Davis SM, Miyamoto S. PIASy mediates NEMO sumoylation and NF- $\kappa$ B activation in response to genotoxic stress. *Nat Cell Biol.* 2006 Sep;8(9):986-93.
- 3.) Wu ZH, **Mabb A**, Miyamoto S. PIDD: A Switch Hitter. *Cell.* 2005 Dec 16;123(6):980-2.
- 4.) Shi Y, Venkataraman SL, Dodson GE, **Mabb AM**, LeBlanc S, Tibbetts RS. Direct regulation of CREB transcriptional activity by ATM in response to genotoxic stress. *Proc Natl Acad Sci U S A.* 2004 Apr 20;101(16):5898-903.

## **FUNDING:**

- NIH sponsored postdoctoral fellowship in the Fundamental & Translational Neuroscience Program (July 2007)
- Department of Defense Breast Cancer Research Program Predoctoral Traineeship Award (2005-2007)
- MCP NIH training grant (2002-2004)

## **ACTVITIES & AWARDS:**

- MCP Steering Committee (2003-2007)
- Vilas Fellowship Peer Review Committee (2006)
- NIH sponsored Keystone Symposia Scholarship (2006)
- Vilas Travel Grant Award (2005)
- Lovenhart Scholarship (2002)
- Northern New York Section of the American Chemical Society Award (2002)
- Member of Phi Delta Epsilon, Treasurer (2001-2002)
- Clarkson University Leadership Award (1998-2002)

## **MEETINGS, TALKS & POSTERS:**

- Keystone Symposia: Multi-Protein Complexes Involved in Cell Regulation (2006)
- Keystone Symposia: NF- $\kappa$ B: 20 Years on the Road from Biochemistry to Pathology (2006), *poster presentation*
- Third International Conference on Ubiquitin, Ubiquitin-Like Proteins and Cancer, **Selected Talk** "PIASy is a critical mediator of NEMO sumoylation and NF- $\kappa$ B activation in response to genotoxic stress" (2006)
- The Ubiquitin Family meeting at Cold Spring Harbor Laboratory (2005), *poster presentation*
- MCP Signal Transduction Research Training Symposium, **Selected Talk** "PIASy is a critical mediator of NEMO sumoylation and NF- $\kappa$ B activation in response to genotoxic stress" (2005)
- MCP Signal Transduction Research Training Symposium (2003, 2004), *poster presentation*
- Clarkson University Department of Chemistry Seminar Series, **Talk**. "Effects of xenoestrogens and current techniques of xenoestrogen detection" (2002)
- NSF-sponsored REU Chemistry Seminar Talks, **Talk** "A potential DNA crosslink from reduced derivatives of 1,6 and 1,8-Dinitropyrene" (2000)

## **TEACHING EXPERIENCE:**

**Clarkson University Department of Chemistry** Potsdam, NY  
**TA for General Chemistry for Majors – 2001-2002**

- In charge of teaching a lab section and recitation class.
- Responsible for grading prelabs, post labs, chemistry exams, and final exam