

## **Amber Lynn Smith**

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### **OBJECTIVE**

To become a member of a dynamic research team in a scientific field with an emphasis on biochemistry, medical and nutritional research, environmental science, or biotechnology.

### **OVERVIEW OF QUALIFICATIONS**

- Bachelor of Science in biochemistry, minor in biology
- Relevant coursework: principles of biotechnology, biochemistry, chemistry, biology, microbiology, physics, calculus, agricultural sciences, genetics, physiology, nutrition
- Undergraduate researcher since February of 2007 in the laboratory of Dr. Janet Tou at West Virginia University
- Team work assisting M.S. and Ph.D. students, as well as independent research projects
- Projects include but are not limited to: biochemical enzyme assays, bone biomechanical measurements, mineral analysis, clinical biomarkers of renal function, damage, and injury, histology and staining procedures, statistical analysis
- Senior honors thesis: *The Effect of Consumption of Different Sugar-Sweetened Beverages on the Renal Function of Young Female Rats*
- Presented at scientific research conferences
- Authorship on a published peer-reviewed manuscript and several published abstracts

### **EDUCATION**

- 2001-2006: High School Diploma, Frazier High School, Perryopolis, PA 15473
- 2006-2010: Bachelor of Science in Biochemistry, Magna Cum Laude, University Honors Scholar, Minor in Biology, West Virginia University Davis College of Agriculture, Natural Resources, and Design, Morgantown, WV 26506

### **WORK EXPERIENCE**

- June 2010- Present: River Guide, Laurel Highlands River Tours, Ohio, PA
- June 2010- Present: Registration Assistant, Perryopolis Auto Auction, Perryopolis, PA
- February 2007-May 2010: Undergraduate Research Assistant, WVU Division of Animal & Nutritional Sciences
- Summer 2009: Server and Hostess, The Boston Beanery, Morgantown, WV
- Summer 2008: West Virginia University Summer Undergraduate Research Experience
- 2005-2006: Registration Assistant and Pay Window Clerk, Perryopolis Auto Auction, Perryopolis, PA

## PUBLICATIONS

Gigliotti, J.C., **Smith, A.L.**, Jaczynski, J., & Tou, J.C. *Consumption of krill protein concentrate prevents early renal injury and nephrocalcinosis in female Sprague-Dawley rats.* Urological Research. 9 March 2010. (Electronic publication ahead of print on US National Library of Medicine- pubmed.gov)

Gigliotti, J.C., **Smith, A.L.**, Lukas, R., & Tou, J.C. *The influence of diets differing in polyunsaturated fatty acids on renal function in female rats.* **Federation of American Societies for Experimental Biology (FASEB) Conference 2010, Anaheim, CA.**

Gigliotti, J.C., **Smith, A.L.**, & Tou, J.C. *The influence of renal fatty acid content on mineralization and disease.* **Institute of Food Technologists (IFT) Conference 2010, Chicago, IL.**

Baer, L.A., Wu, X., Pedraza, I., Tou, J.C., **Smith, A.L.**, Silliman, D.T., Walters, T., Wolf, S.E., & Wade, C.E. *Contribution of Severe Burn and Disuse on Bone Morphology and Strength in Rats.* US Army Institute of Surgical Research and West Virginia University (Published Abstract). American Burn Association Conference 2009, San Antonio, TX.

Gigliotti, J.C., **Smith, A.L.**, Jaczynski, J., & Tou, J.C. *Determination of Safety Associated With Consuming Krill Protein Concentrate.* Published abstract. Poster- First Place: Nutrition Division, Mark Bieber Graduate Student Research Competition at the Annual Institute of Food Technologists Conference, June 31-July 1, 2008.

## SCIENTIFIC PRESENTATIONS

Smith, A.L., Gigliotti, J.C., Jaczynski, J., & Tou, J.C. *Determination of Safety Associated With Consuming Krill Protein Concentrate.* Poster. Undergraduate Research Day at the Capitol, March 2009, Charleston, WV.

Smith, A.L., Gigliotti, J.C., Tszani, E., Light H., & Tou, J.C. *Consumption of Different Sugar-Sweetened Beverages on the Renal Function and Health of Young Rats.* Poster. West Virginia STaR Symposium-Undergraduate Researcher of the Year Candidate, April 22, 2009, Charleston, WV.

## ACTIVITIES, AWARDS, AND HONORS

- Alpha Epsilon Delta Pre-Health Honorary
- Alpha Phi Omega Co-Ed Service Fraternity
- CHIMES Junior Class Honorary
- Gamma Sigma Delta Agricultural Honor Society
- Girls on the Run of Mon County Volunteer
- Morgantown Multisport Triathlon Club
- Mortar Board National Senior Class Honorary
- Mountaineer Maniacs
- Phi Lambda Upsilon Chemistry Honorary
- Ronald McDonald House Charities Volunteer
- Student Health Advisory Board
- WVU Cycling Team
- WVU Honors College
- WVU Triathlon Club– Vice President
- WVU Women’s Rowing
- WVU Blue and Gold Scholarship
- WVU Dean’s List

- William Brent Maxwell

Scholarship Winner

## REFERENCES

Janet Tou, Ph.D.  
Assistant Professor  
Division of Animal and Nutritional Sciences  
1038 Agricultural Sciences Building  
West Virginia University  
Morgantown, WV 26505  
304-293-2631 ext 4437  
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