

Daniel M. Czyz

Northwestern University
The Department of Biochemistry, Molecular Biology, and Cell Biology
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Objective

To expand my scientific education and knowledge, which will let me utilize and apply my skills to future scientific research and discovery of basic knowledge in the area of neurodegenerative diseases and aging.

Education

Northwestern University, Evanston, IL
Fourth Year Ph.D. Candidate in Biochemistry, Molecular Biology and Cell Biology 2005-Present
Thesis: Tissue-specific Regulation of the Heat Shock Response in a Metazoan Organism.
Laboratory: Dr. Richard I. Morimoto, Ph.D.

University of Illinois at Chicago, Chicago, IL
Bachelor of Science in Biochemistry May 2005
Honors College May 2005

Research Experience

University of Illinois at Chicago, Department of Surgical Oncology, Chicago, IL
Undergraduate Researcher, later Research Specialist November 2002-August 2005
Investigated the effect of selective estrogen receptor modulators (SERMS) and isoflavones on cancer cell proliferation using cell culture methods.

University of Illinois at Chicago, Molecular Biology Department, Chicago, IL
Undergraduate Research Assistant January 2002-May 2002
Helped with various cloning experiments to obtain an expertise in DNA cloning and electrophoresis.

Teaching Experience

Department of Biological Sciences, Biochemistry
Northwestern University, Evanston, IL
Teaching Assistant Fall 2006
Supervised a discussion section of 39 students by teaching and reviewing topics related to biochemistry.
Evaluated students' work by grading quizzes, projects, and exams.

Guest Lecturer January 17, 2007
Invited speaker for biochemistry to talk about protein folding. Class taught by Dr. Alexandra Patera.

Department of Biological Sciences, Genetics and Evolution
Teaching Assistant Fall 2007
Taught and supervised lab/discussion sections of 30 students six hours per week with the purpose of introducing students to the concepts of genetics and evolution using experimental approach.

Mentored an IBiS rotation student, Nicholas Pelaez, for an academic quarter during his rotation at the Morimoto lab. Provided conceptual design and experimental procedures as well as guidance and technical advice on the rotation project: "Effects of chronic heat shock on *C.elegans*' viability and chaperone gene expression"

Memberships and Recognitions

Best Poster Award, 14th Annual Midwest Stress Response and Molecular Chaperone Meeting, 2009
Genetics Society of America
American Association for the Advancement of Science Membership
Knight of Dabrowski – Crusade for Education Award 2007/08/09
Honors College, University of Illinois at Chicago (Jan. 2001-May 2005)
Scholarship Association Award, University of Illinois at Chicago (2004)
Golden Key (National Honor Society) (Sept. 2003)
Department of Defense: Breast Cancer Research Grant and Training (Summer 2003)
PASA Officer Event Coordinator (Polish-American Student Association)
The National Society of Collegiate Scholars (Sept. 2002)
Phi Eta Sigma (National Honor Society UIC Chapter) (Sept. 2001)
ACS (American Chemical Society)
Dean's List (University of Illinois at Chicago)

Publications

Abstracts:

- Czyz, D.M., Mehta, R.G., Constantinou, A.I. *SERMS and Their Effect on In Vitro Studies of Breast Cancer Cells*. Era of Hope Department of Defense Breast Cancer Research Program Meeting. Abstract/Poster. June 8, 2005. Philadelphia, Pennsylvania.
Also published at 2005 Undergraduate Research Symposium at University of Illinois at Chicago and 2005 First Chicago Annual Undergraduate Research Symposium at Northwestern University, Chicago, Illinois.
- Czyz, D.M., Voisine, C., Morimoto, R.I. *Battlefield: Heat Shock Proteins versus Stress*. 11th Annual Midwest Stress Response and Molecular Chaperone Meeting. Abstract/Poster. January 14, 2006. Northwestern University, Evanston, Illinois.
- Voisine, C., McFall, S., Orton, K., Czyz, D.M., Morimoto, R.I. *Identification of Chaperone Networks in *Caenorhabditis elegans**. Poster. Department of Biochemistry, Molecular Biology and Cell Biology. Northwestern University, Evanston, Illinois.
- Czyz, D.M., Voisine, C., Morimoto, R.I. *Chaperone Expression Profile During Development, Stress, and Ageing*. Abstract/Poster. February 2, 2007. 12th Annual Midwest Stress Response and Molecular Chaperone Meeting. Northwestern University, Evanston, Illinois.
- Orton, K., Voisine, C., Douglas, E., Czyz, D.M., McFall, S., Morimoto, R.I. *The Chaperome 1.0: Cross-species Analysis of Molecular Chaperone Proteins Families by Comparative Bioinformatics*. Abstract/Poster. February 2, 2007. 12th Annual Midwest Stress Response and Molecular Chaperone Meeting. Northwestern University, Evanston, Illinois.
- Czyz, D.M., Morimoto, R.I. *Regulatory Specificity and Hsp70 Chaperone Networks in *Caenorhabditis elegans**. Abstract/Poster. September 2007. Interdepartmental Biological Sciences Annual Meeting. Northwestern University, Evanston, Illinois.
- Richter*, K., Czyz*, D.M., Guisbert*, E., Morimoto, R.I. *Tissue Specific Regulators of Heat Shock Proteins*. Abstract/Poster. May 2008. Department of Biochemistry, Molecular Biology and Cell Biology. Northwestern University, Evanston, Illinois.
- Czyz*, D.M., Guisbert*, E., Richter*, K., McMullen, P., Morimoto, R.I. *Tissue-specific Proteostasis Networks in *Caenorhabditis elegans**. Abstract/Poster. January 17, 2009. 14th Annual Midwest Stress Response and Molecular Chaperone Meeting. Northwestern University, Evanston, Illinois. Best Poster Award.
- Czyz*, D.M., Guisbert*, E., Richter*, K., McMullen, P., Morimoto, R.I. *Tissue-specific Proteostasis Networks in *C.elegans**. Abstract (submitted). 17th International *C.elegans* Meeting, University of California, Los Angeles, California.

*Authors contributed equally

Oral Presentations

Czyz, D.M. *Identification of Tissue Specific Proteostasis Regulatory Networks*. Molecular Biology Club. Oral presentation. November 2008. Department of Biochemistry Molecular Biology and Cell Biology. Northwestern University, Evanston, Illinois.