

Updated in April 2011

Daniel M. Czyz

Northwestern University
The Department Molecular Biosciences
Morimoto Lab
2205 Tech Drive, Hogan 2-100
Evanston, Illinois 60208
Lab Phone: (847) 467-0104
Fax: (847) 491-4461
E-mail: d-czyz@northwestern.edu

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 protein conformational diseases and aging.

Education

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

Northwestern University, Department of Molecular Biosciences, Evanston, IL
Interdepartmental Biological Sciences Program (IBiS) September 2005-Present
Ph.D. Candidate in Molecular Genetics June 2007-Present
Thesis: Regulation of the Heat Shock Response in a Metazoan Organism, *Caenorhabditis elegans*.
Laboratory: Dr. Richard I. Morimoto, Ph.D.

Research Experience

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.

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.

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.

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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.

Graduate Mentorship

Winter 2008/9

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". The finding of the project provided foundation for a collaborative project between the Morimoto, Amaral, and Ruvinsky lab.

Undergraduate Mentorship

Summer 2009

Mentored and taught a high school graduate, Roberto Landin, currently an undergraduate at the Harvard University. Supervised Roberto's independent summer project titled "Developmental Regulation of Tissue-specific Proteostasis regulators".

Graduate Mentorship

Fall 2009-Summer 2010

Mentored Corinna Glasner, a visiting topmaster student from Rijksuniversiteit of Groningen. Helped to design an internship project for Corinna and guided her through its duration providing own expertise and advice on the identification of the HSF-1 cellular lineage during *C.elegans* embryogenesis. Also, guided the development of novel transgenic animals expressing fluorescently tagged HSF-1.

Graduate Mentorship

Winter 2010-Summer 2010

Mentored Milos Simic, a visiting master student from Ecole Normale Supérieure during his internship at the Morimoto lab. Helped to develop research plan and ideas for a project concentrating on the involvement of HSF-1 in genetic pathways involved in the regulation of lifespan. Also, guided the development of novel tissue-specific HSF-1 RNAi.

Graduate Mentorship

Winter 2010/11

Mentored an IBiS rotation student, Carlo Hinchliff Deertail, for an academic quarter during his Winter rotation at the Morimoto lab. Provided conceptual design and experimental procedures as well as guidance and technical advice on the rotation project: "Age-specific Collapse of the Proteostasis"

Memberships and Recognitions

Dean's List (University of Illinois at Chicago)

ACS (American Chemical Society)

Phi Eta Sigma (National Honor Society UIC Chapter) (Sept. 2001)

PASA Officer Event Coordinator (Polish-American Student Association)

The National Society of Collegiate Scholars (Sept. 2002)

Department of Defense: Breast Cancer Research Grant and Training (Summer 2003)

Golden Key (National Honor Society) (Sept. 2003)

Scholarship Association Award, University of Illinois at Chicago (2004)

Honors College, University of Illinois at Chicago (Jan. 2001-May 2005)

Knight of Dabrowski – Crusade for Education Award 2007/08/09

American Association for the Advancement of Science Membership, Member since 2007

Genetics Society of America, Member since 2009

Best Poster Award, 14th Annual Midwest Stress Response and Molecular Chaperone Meeting, 2009

Best Poster Award, 17th International *C.elegans* Meeting, 2009

Best Oral Presentation, Biochemistry, Molecular Biology and Cell Biology Annual Retreat, June 2010

Chicago Center for Systems Biology Member since 2009

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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. 17th International C.elegans Meeting, University of California, Los Angeles, California. Best Poster Award.

Morimoto R, Prahlad V, Ben-Zvi A, Gidalevitz T, Westerheide S, Anckar J, Sistonen L, Guisbert E, Czyz D, Voisine C, Silva C, Beam M. Restoring Proteostasis via Chaperone Networks in Ageing and Neurodegenerative Disease. The Journal for the Federation of American Societies for Experimental Biology Meeting. Abstract. April 2009.

Peter Winter, Eric Guisbert, Patrick McMullen, Daniel Czyz, Luis Amaral, and Richard Morimoto. Connecting the temperature dependence of phenotypic changes to alterations in transcriptional response. Abstract. Chicago Center for Systems Biology Annual Retreat., November 2009.

Eric Guisbert, Daniel Czyz, Klaus Richter, Patrick McMullen and Rick Morimoto. Regulation of the Heat Shock Response. Abstract. Chicago Center for Systems Biology Annual Retreat, November 2009

Czyz D.M., Guisbert, E., Richter, K., McMullen, P., Morimoto, R.I. Towards the Understanding of the Heat Shock Response in Metazoans. Abstract/Poster. January 16, 2010. 15th Annual Midwest Stress Response and Molecular Chaperone Meeting. Northwestern University, Evanston, Illinois.

Czyz Daniel, Guisbert Eric, Richter Klaus, McMullen Patrick, Richard Morimoto. Regulation of the Heat Shock Response by Tissue-specific Proteostasis Networks in *Caenorhabditis elegans*. Abstract/Poster. May 4-8, 2010. Cold Spring Harbor Conference, Molecular Chaperones and Stress Responses. Cold Spring Harbor, New York.

*Authors contributed equally

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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.

Czyz Daniel. *Regulation of the Heat Shock Response in Caenorhabditis elegans*. Biochemistry, Molecular Biology and Cell Biology Annual Departmental Retreat. Oral Presentation. June 1, 2010. Best Oral Presentation.