

Michelle Eileen Casad
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Education

- Ph.D. Biomedical Sciences University of California, San Diego 2003-present
 - Advisor: Wolfgang Dillmann, MD.
- Non-degree graduate coursework University of Notre Dame 2002-2003
 - Coursework done while employed at Notre Dame.
- B.S. General Biology University of California, San Diego June 2001
 - Graduated *magna cum laude* from Earl Warren College.
 - Cumulative GPA: 3.883.
 - UC Education Abroad Program – National University of Ireland, Galway. 1999-2000
 - Minor in Music Performance, Program of Concentration in Sociology.

Biomedical Sciences Graduate Work

- Laboratory of Wolfgang Dillmann, MD, UCSD School of Medicine.
- Current dissertation focus: the role of mitochondria in diabetic cardiomyopathy.
- Completed Minor Proposition: “The role of Natural Killer Cells in Atherosclerosis.”
 - Minor committee chair – Dr. Oswald Quehenberger.
- First year core courses and elective courses complete.
 - Emphasis on classes in cardiovascular field.
- First year laboratory rotations: Richard Kolodner PhD, Gregg Silverman MD, Wolfgang Dillmann, MD, Robert Ross MD.

Research Experience:

- Biomedical Studies Graduate Program, University of California, San Diego
 - Thesis Lab: 07/2004-present
 - Isolation of primary cardiomyocytes, culturing including neonatal cardiomyocytes, cloning and isolation of adenovirus vectors.
 - Isolation of mitochondria, measurement of oxygen consumption and ATP formation in isolated mitochondria.
 - Rotation Labs – 10 weeks per lab 09/2003-06/2004
 - Yeast genetics and molecular biology.
 - Flow cytometry and analysis of apoptosis of splenocytes.
 - Isolation of cardiac fibroblasts.
- Research Technician, Center for Transgene Research, University of Notre Dame 09/2001-07/2003
 - Investigation of the roles of the genes of the blood coagulation, anticoagulation, and fibrinolytic pathways in hemostasis.
 - General molecular biology and cell culture techniques.
 - Isolation and culture of fetal hepatocytes.
 - Analysis of serum samples of coagulation factors.
 - Various histological techniques, included sectioning and immunohistochemistry.
- Laboratory Intern, Targeted Molecules Corporation, San Diego, CA 04/2001-08/2001
 - Maintenance and harvesting of cell culture lines, preparing media and supplies.

- Undergraduate Independent Study, University of California San Diego 09/2000-06/2001
 - Advisor: Dr. Donald R. Helinski.
 - Molecular biology techniques involved in bacterial genetics.

Relevant Work Experience

- Research Technician –Center for Transgene Research, University of Notre Dame, 09/2001-07/2003
 - Direct supervisor: Dr. Elliot D. Rosen.
- Laboratory Intern - Targeted Molecules Corporation, San Diego, CA 04/2001-08/2001
 - Direct supervisor: Dr. Catherine Woods.

Teaching Experience

- Teaching Assistant - UCSD Division of Biology Winter 2005
 - Mammalian Physiology I; Professor P.A. George Fortes, MD, PhD.
 - Responsibilities included: teaching two sections per week, holding review sessions before exams, meeting with students at office hours, grading exams.
- Student Leader -California State U, Stanislaus, Pre-freshman enrichment program Summer 1999
 - Assisting with Math and Science activities for junior high school students during a four-week summer enrichment program.
 - Director: Dr. Viji K. Sundar.

Publications:

- Rosen E.D., Cornelissen I., Liang Z., Zollman A., Casad M., Roahrig J., Suckow M., and Castellino F.J. "In Utero Transplantation of Fetal Liver Cells Rescues Factor X Deficient Mice from Perinatal Lethality." *Journal of Thrombosis and Haemostasis* 2003 1 (1), 19-27.

Honors and Awards

- Earl Warren College Senior Honors. 2001
- Provost's Honors – seven quarters. 1997-2001
- Madge E. Lawhead Scholar. 2000, 2001
- UC Education Abroad Scholarship. 1999-2000
- William W. Stout Scholar. 1998-1999
- California Masonic Foundation Scholarship. 1997-2001
- Italian Catholic Federation Scholarship. 1997-2000

Scientific Conferences

- American Diabetes Association Scientific Sessions, San Diego, CA. June 2005

Career Goals

- Researcher in biomedical sciences.

References:

- Wolfgang Dillmann wdillman@ucsd.edu
- Oswald Quehenberger oquehenberger@ucsd.edu
- Elliot Rosen edrosen@iupui.edu