

CURRICULUM VITAE

Kathryn M. Rafferty, Ph.D., M.E.

Contact Information

Address: University of Nevada Las Vegas, School of Life Sciences, 4505 S. Maryland Parkway,
Las Vegas, Nevada 81954

Email: kathryn.rafferty@unlv.edu

Office location: WHI 309A

Office Phone: 702-895-5834

Fax: 702-895-3956

Education:

Georgia Institute of Technology and Emory University School of Medicine, 2003-2008

Ph.D., Biomedical Engineering

University of Florida, 2001-2003

M.E., Biomedical Engineering

University of Florida, 1997-2001

B.S., cum laude, Engineering Sciences with minor in Biomechanics

Professional Experience:

University of Nevada Las Vegas, School of Life Sciences

- Associate Professor in Residence, July 2022- present y1ID 23 >>BDC-

University of Cincinnati, Department of Biological Sciences

- Assistant Professor Educator, Jan 2012-Dec 2014
- Adjunct Assistant Professor, 2010-2012

Courses Taught:

Biol 2081C Genetics and Cell Biology

Biol 4091C Biotechnology Methods

Biol 301 Cell Structure and Function

Cincinnati Children's Hospital Medical Center, Heart Institute: Molecu

Biology

- Postdoctoral Research Fellow, Labo

GRANTS, AWARDS, and RECOGNITION:

Current:

- Co-PI on NSF S-STEM #

- Mentor in Office of U

Developed the curriculum an upper level laboratory course that met an industry partner need for new hires skilled in modern biotech methods. Skills taught include aseptic technique, mammalian cell culture, Western Blotting, DNA harvest, and DNA sequencing

associated with differential cardiomyocyte calcium handling due to nebulin mutations. *J Mol Cell Cardiol.* 60:151-60, 2013.

Pendergrass KD, Boopathy AV, Seshadri G, Maiellaro-Rafferty K, Brown M, Davis ME. Acute Preconditioning of Cardiac Progenitor Cells with Hydrogen Peroxide Enhances Angiogenic Pathways Following Ischemia-Reperfusion Injury. *Stem Cells and Development*, 22(17):2414-24, 2013.

Washington E, O'Donnell R, Maiellaro-

stem cells from the adult rat heart were treated with H₂O₂ and