Steven Wu, Ph.D.
Assistant Professor

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Education:
BS, Biochemistry, Colorado State University
PhD, Physiology & Biophysics, University of Illinois at Chicago
Postdoctoral, Sanford Research

Previous Position: Lecturer and Research Associate, Department of Integrative Biology and Physiology, University of Minnesota

Teaching:
- PHSL 3051 Human Physiology
- PHSL 4900 Advanced Physiology Teaching Laboratory
- PHSL 3061/5061 Principles of Physiology
- PHSL/BMEN 3701 Physiology Lab
- PHSL 3062w Research Paper for Physiology Majors
- PHSL 6051 Systems Physiology

Honors and Awards: Co-chair and Invited Speaker, Cardiac Muscle II Session at the 58th Annual Biophysical Society Meeting; Invited presentation, American Heart Association Scientific Sessions; New Investigator Award, American Heart Association Basic Cardiovascular Sciences Scientific Sessions

Research Interests: Novel mechanisms regulating cardiac myocyte contractility and survival in the heart.

Selected Publications (Last 5 Years):

- Eclov JA, Qian Q, Redetzke R, Chen Q, **Wu SC**, Healy CL, Ortmeier SB, Harmon E, Shearer GC, O'Connell TD. EPA, not DHA, prevents fibrosis in pressure overload-induced heart failure: potential role of free fatty acid receptor 4. J Lipid Res 56(12):2297-308, 2015. PMID: 26435012
- **Wu SC** and O'Connell TD. A nuclear option? G-protein coupled receptors at the nucleus in cardiac myocytes. J Cardiovasc Pharmacol 65(2):89-90, 2015. PMID: 25551323
- Zhang L, Guo J, Zhang P, Xiong Q, **Wu SC**, Xia L, Roy SS, Tolar J, O'Connell TD, Kyba M, Liao K, Zhang J. Derivation and High Engraftment of Patient-Specific Cardiomyocyte-Sheet Using Induced Pluripotent Stem Cells Generated From Adult Cardiac Fibroblast. Circ Heart Fail 8(1):156-66, 2015. PMID: 25420485
- **Wu SC** and O'Connell TD. Nuclear Compartmentalization of α1-Adrenergic Receptor Signaling in Adult Cardiac Myocytes. J Cardiovasc Pharmacol 65(2):91-100, 2015. PMID: 25264754
- **Wu SC**, Dahl EF, Wright CD, Cypher AL, Healy CL, O'Connell TD. Nuclear Localization of α1A-Adrenergic Receptors is Required for Signaling in Cardiac Myocytes: *An "inside-out" α1-AR signaling pathway.* J American Heart Association 3(2):e000045, 2014. PMID: 24771676
- Wright CD†, **Wu SC**†, Dahl EF, Sazama AJ, O'Connell TD. Nuclear localization drives α1-adrenergic receptor oligomerization and signaling in cardiac myocytes. Cell Signal 24(3): 794-802, 2012. †Equal contribution. PMID: 22120526

Dalay Olson, Ph.D.
Assistant Professor

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Education:

BS in Chemistry, St. Olaf College	2004-2008
Ph.D. in Integrative Biology and Physiology, University of Minnesota	2010-2015
Postdoctoral: Biology, Teaching and Learning, U of Minnesota	2016-2017

Position: Assistant Professor, Integrative Biology and Physiology University of Minnesota

Honors and Awards:

2012	The Lifson/Johnson Memorial Award
2011	Alan Hemingway Scholarship

Research Interest: The development of next generation, online, physiology based courseware that engages students through personalized learning experiences.

Publications:

- Olson, D.H., Kramer, M and Wright, R. (2017) Efficiency of Online Learning Modules in Improving Students Understanding of the Scientific Process. *Submitted to CBE-LSE*
- Olson, D.H., Burrill, J.S., Kuzmicic, J., Park, J.M., Kim, D.H. and Bernlohr, D.A. (2017) Rictor oxidation and disruption of the mammalian target of rapamyscin complex 2 (MTORC2) links mitochondrial oxidative stress to insulin resistance in adipocytes. *Submitted to BBRC*
- Long, E.K., Olson, D.H., and Bernlohr, D.A. (2013) High Fat Diet Induces Depot-Specific Adipose Tissue Changes in *Trans*-4-Oxo-2-Nonenal and *Trans*-4-Hydroxy-2-Nonenal Levels. *Free Radical Bology and Medicine 63: 390-398.*
- Hirsch, D., and Zukowska, Z. (2012) NPY and stress 30 years later: the peripheral view. *Cell Mol Neurobiol* 32:645-659.