

Elizabeth Donelan
 Research Associate
 Center for Conservation and Research of Endangered Wildlife (CREW)
 Cincinnati Zoo & Botanical Garden
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Education/Training

Institution and Location	Degree	Year	Field of Study
Michigan State University	B.S.	2006	Zoology
University of Rhode Island	M.S.	2009	Environmental Science/Wildlife Biology

Positions and Employment

Research Associate, CREW	2016-Present
Research Assistant, CREW	2015-2016
Research Assistant III, Cincinnati Children's Hospital Medical Center	2012-2015
Research Assistant, University of Cincinnati	2009-2012
Teaching Assistant, University of Rhode Island	2008-2009
Natural Science Intern, Maria Mitchell Association	2004, 2006
Teaching Assistant, Michigan State University	2004-2006

Honors and Awards

Girls Scouts of America Gold Award, Cincinnati, OH	2002
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Peer-Reviewed Publications

- Götz A, Lehti M, **Donelan E**, Striese C, Cucuruz S, Sachs S, Yi CX, Woods SC, Wright SD, Müller TD, Tschöp MH, Gao Y, Hofmann SM. Circulating HDL levels control hypothalamic astrogliosis via apoA-I. *Journal of Lipid Research*. 2018 59, 1649-1659.
- Giles DA, Ramkhalawon B, **Donelan EM**, et al. Modulation of ambient temperature promotes inflammation and initiates atherosclerosis in wild type C57BL/6 mice. *Molecular Metabolism*. 2016;5(11):1121-1130. doi:10.1016/j.molmet.2016.09.008.
- Gutierrez-Aguilar R, Kim DH, Casimir M, Dai XQ, Pfluger PT, Park J, Haller A, **Donelan E**, Park J, D'Alessio D, Woods SC, MacDonald PE, Seeley RJ. The role of the transcription factor *etv5* in insulin exocytosis. *Diabetologia*. 2014 Feb;57(2):383-91. doi: 10.1007/s00125-013-3096-5. Epub 2013 Nov 5.
- Lehti M, **Donelan E**, Abplanalp W, Al-Massadi O, Habegger KM, Weber J, Röss C, Mansfeld J, Somvanshi S, Trivedi C, Keuper M, Ograjsek T, Striese C, Cucuruz S, Pfluger PT, Krishna R, Gordon SM, Silva RA, Luquet S, Castel J, Martinez S, D'Alessio D, Davidson WS, Hofmann SM. High-density lipoprotein maintains skeletal muscle function by modulating cellular respiration in mice. *Circulation*. 2013 Nov 26;128(22):2364-71. doi: 10.1161/CIRCULATIONAHA.113.001551. Epub 2013 Oct 29.
- Kirchner H, Hofmann SM, Fischer-Rosinsky A, Hembree J, Abplanalp W, Ottaway N, **Donelan E**, Krishna R, Woods SC, Müller TD, Spranger J, Perez-Tilve D, Pfluger PT, Tschöp MH, Habegger KM. Caloric restriction chronically impairs metabolic programming in mice. *Diabetes*. 2012 Nov;61(11):2734-42. doi: 10.2337/db11-1621.
- Chun-Xia Yi, Omar Al-Massadi, **Elizabeth Donelan**, Maarit Lehti, Jon Weber, Chandler Röss,

Chitrang Trevi, Stephen C. Woods, Matthias H. Tschöp, Susanna M. Hofmann. Exercise protects from high fat diet induced hypothalamic inflammation. *Physiol Behav.* 2012 Jun 25;106(4):485-90. doi 10.1016/j.physbeh.2012.03.021.

Abstracts and Presentations

- Donelan EM**, S Shuler, M Miller, A Moresco, E Ehmke, R Evans and TL Roth. 2019. Assessment of fecal progesterone and estrogen metabolites for reproductive monitoring in female aye-ayes (*Daubentonia madagascariensis*). International Society of Wildlife Endocrinology 7th International Meeting. Poster presentation, Kruger National Park, South Africa.
- Kennedy VC, TL Roth, **EM Donelan** and E Curry. 2018. Western blot evaluation of fecal transthyretin (TTR) for use as a pregnancy test in polar bears (*Ursus maritimus*); In search of the golden compass of population management tools. Proceedings of the Society for the Study of Reproduction, P447. Poster presentation, New Orleans, LA.
- Donelan EM**, KM MacKinnon, KA Klosterman, D Canfield, RS Webster, JR Bray and TL Roth. 2017 Fecal glucocorticoid metabolite monitoring in kea (*Nestor notabilis*) during Avian Bornavirus outbreaks at the Cincinnati Zoo and Botanical Garden. Proceedings of the Biennial Meeting of the International Society of Wildlife Endocrinology (abstr.74). Oral presentation, Orlando, FL.
- Susanna Hofmann, **Elizabeth Donelan**, Maarit Lehti, Kirk Habegger, Ranasinghe Silva, Sean Davidson, Matthias Tschöp, elevating hdl levels in mice prevents age- induced decline of endurance capacity by promoting glycolysis and lipolysis. Control/Tracking Number: 16481, Scientific Sessions 2011 of the American Heart Association, Orlando, Florida, Oral Session: Novel Mediators of Lipid and Lipoprotein Metabolism and the George L. Duff Memorial Lecture, Monday November 14, 2011
- Elizabeth Donelan**, Maarit Lehti, Kirk Habegger, Sonal Somvanshi, Chandler Ress, Matthias Tschöp, Susanna M. Hofmann. Raising circulating hdl levels in mice are associated with enhanced glucose utilization and lipolysis. Presentation number 105-LB in category 16-E Integrated Physiology – Muscle at the 71st Scientific Sessions of the American Diabetes Association, San Diego, California, USA, June 24-28, 2011
- Omar Al-Massadi, **Elizabeth Donelan**, Maarit Lehti, Sonal Somvanshi, Chandler Ress, Jon Weber, Chun-Xia Yi, Matthias H Tschöp and Susanna M Hofmann. Physical exercise prevents diet-induced cutaneous xanthomatosis and modulates lipoprotein profile in low density lipoprotein receptor deficient (*ldlr ko*) mice. Presentation number 20-LB in category 10-A Exercise– Animal at the 71st Scientific Sessions of the American Diabetes Association, San Diego, California, USA, June 24-28, 2011
- Maarit Lehti, **Elizabeth Donelan**, William Abplanalp, Kirk Habegger, Kim Krawczewski, Silvana Obici, Ranasinghe Silva, Sean Davidson, Matthias H Tschöp, and Susanna M Hofmann. Hdl as a novel modulator of mitochondrial energetics and glucose homeostasis. Control/Tracking Number: 11-A-715-AHA-ATVB oral presentation at the Arteriosclerosis, Thrombosis, and Vascular Biology Annual Conference, Chicago, Illinois, USA, April 28 - 30, 2011
- Detection of Pneumocystis murina in the Nasal Cavity of Mice.* M.J. Linke, PhD, M. Neace, BS, **E. Donelan**, BS, A.D. Ashbaugh, BS and P.D. Walzer, MD. Toronto International Conference. American Thoracic Society 2008. (Abstract)