Amy Christensen, Ph.D.

<u>Vital</u>				
	Title	Research Assistant Professor		
	Current Address:	University of Southern California Davis School of Gerontology 3715 McClintock Ave, GER 306B Los Angeles, CA 90089		
	E mail:	akchrist@usc.edu		
<u>Education</u>				
	2005	University of California, Los Angeles, B.S., Physiological Science		
	2005	University of California, Los Angeles, B.S., Anthropology		
	2012	University of California, Los Angeles, Ph.D., Neurobiology Thesis Advisor: Paul Micevych Thesis Title: Molecular Aspects of the Regulation of Female Sexual Behavior		
	2012-2018	University of Southern California, Postdoctoral Fellowship Advisor: Christian J. Pike		
Teaching Responsibilities				
	2018	Co-instructor, Summer@USC Neuroscience Course, University of Southern California		
	2017	Co-instructor, Health Promotion and Disease Prevention Studies 320: Biological and Behavioral Basis of Disease, University of Southern California		
	2010	Teaching Assistant, Life Sciences 3: Introduction to Molecular Biology, University of California, Los Angeles		
	2009	Teaching Assistant, Life Sciences 3: Introduction to Molecular Biology, University of California, Los Angeles		
Invited Talks and Awards				
	2022 2019	AARP Best Research Scientist California State University Long Beach Lecture Series, Long Beach, CA – April		
	2018	UCLA Laboratory of Neuroendocrinology Speaker Series, Los Angeles, CA – April		
	2018	5 th Annual USC Diabetes and Obesity Research Symposium, Los Angeles, CA – February		
	2017	1 st Annual Finch Alzheimer's Disease Symposium, Los Angeles, CA – December		

CA – December

2016 What's Hot in Aging Research, Los Angeles, CA – April	
2015 Presidential Poster Award- Endocrine Society Meeting – Mar	ch
2012 Pfizer Scholar Award- FASEB SRC on Steroid Hormone	
Regulation of Transcription, Base Village, CO – July	
2011 Young Investigator Travel Award- United States-South Amer	ica
Workshop on Neuroendocrinology – August	
2011 Winter Conference on Brain Research, Keystone, CO – Janu	iary

Bibliography

Christensen A, Pike CJ. Effects of *APOE* Genotype and Western diet on metabolic phenotypes in female mice. *Metabolites* 2023; 13: 287.

Valencia-Olvera AC, Maldonado Weng J, **Christensen A**, LaDu MJ, Pike CJ. Role of estrogen in women's Alzheimer's disease risk as modified by APOE. *Journal of Neuroendocrinology* 2022; e13209. doi: 10.1111/jne.13209.

Christensen A, Liu J and Pike CJ. Aging reduces estradiol protection against neural but not metabolic effects of obesity in female 3xTg-AD mice. *Frontiers in Aging Neuroscience* 2020; 12:113.

Christensen A and Pike CJ. Staining and quantification of β -amyloid pathology in transgenic mouse models of Alzheimer's disease. *Methods in Molecular Biology* 2020; 2144:211-221.

Christensen A and Pike CJ. APOE genotype affects metabolic and Alzheimer-related outcomes induced by Western diet in female EFAD mice. *FASEB Journal* 2019;33:4054-4066.

Moser VA, **Christensen A**, Liu J, Zhou A, Yagi S, Beam CR, Galea LAM, Pike CJ. Effects of aging and testosterone treatment on neural and metabolic outcomes of high-fat diet in male brown Norway rats. *Neurobiology of Aging* 2019; 73:145-160.

Yen K, Wan J, Mehta HH, Miller B, **Christensen A**, Levine ME, Salomon MP, Brandhorst S, Xiao J, Kim S-J, Navarrete G, Campo D, Harry J, Longo V, Pike C, Mack WJ, Hodis HN, Crimmins EM, Cohen P. The mitochondrial peptide humanin prevents age-related cognitive decline in mice and is associated with improved cognitive age in humans. *Scientific Reports* 2018; 8(1):14212.

Christensen A and Pike CJ. TSPO ligand PK11195 improves outcomes in aged female 3xTg-AD mice. *Neuroscience Letters* 2018; 683:7-12.

Christensen A and Pike CJ. Age-dependent regulation of obesity and Alzheimer outcomes by hormone therapy in 3xTg-AD mice. *PLoS One* 2017; 12(6):e0178490.

Cacciottolo M, **Christensen A**, Moser VA, Liu J, Pike CJ, Sullivan PM, Morgan TE, Dolzhenko E, Charidimou A, Wahlund LO, Wiberg MK, Shams S, Chiang GC, Finch CE. The APOE4 allele shows opposite sex bias in microbleeds and Alzheimer's disease of humans and mice. *Neurobiology of Aging* 2016; 37:47-57.

Christensen A and Pike CJ. Menopause, obesity and inflammation: interactive risk factors for Alzheimer's disease. *Frontiers in Aging Neuroscience* 2015; 7:130.

Christensen A, Dewing P, Micevych P. Immediate early gene activity-regulated cytoskeletalassociated protein regulates estradiol-induced lordosis behavior in female rats. *Journal of Neuroscience Research* 2015; 93(1):67-74.

Jayaraman A*, **Christensen A***, Moser VA, Vest RS, Miller CP, Hattersley G, Pike CJ. Selective androgen receptor modulator RAD140 is neuroprotective in cultured neurons and kainate-lesioned male rats. *Endocrinology* 2014; 155(4):1398-406. * contributed equally to this work

Sinchak K, Dewing P, Ponce L, Gomez L, **Christensen A**, Berger M, Micevych P. Modulation of the arcuate nucleus-medial preoptic nucleus lordosis regulating circuit: a role for GABAB receptors. *Hormones and Behavior* 2013; 64(1):136-43.

Christensen A and Micevych P. A novel membrane estrogen receptor activated by STX induces female sexual receptivity through an interaction with mGluR1a. *Neuroendocrinology* 2013; 97(4):363-8.

Christensen A and Micevych P. CAV1 siRNA reduces membrane estrogen receptor- α levels and attenuates sexual receptivity. *Endocrinology* 2012; 153(8):3872-7.

Micevych P and **Christensen A**. Membrane-initiated estradiol actions mediate structural plasticity and reproduction. *Frontiers in Neuroendocrinology* 2012; 33(4):331-41.

Christensen A, Bentley G, Cabrera R, Ortega H, Perfito N, Wu T, Micevych P. Hormonal regulation of reproduction. *Hormones and Metabolic Research* 2012; 44(8):587-91.

Christensen A, Dewing P, Micevych P. Membrane-initiated estradiol signaling induces spinogenesis required for female sexual receptivity. *Journal of Neuroscience* 2011; 31(48):17583-9.

Micevych P, Kuo J, **Christensen A**. Physiology of membrane oestrogen receptor signalling in reproduction. *Journal of Neuroendocrinology* 2009; 21(4):249-56.

Dewing P, **Christensen A**, Bondar G, Micevych P. PKC signaling in the hypothalamic arcuate nucleus regulates sexual receptivity in female rats. *Endocrinology* 2008; 149(12): 5934-5942.

Dewing P, Boulware M, Sinchak K, **Christensen A**, Mermelstein P., Micevych P. Membrane estrogen receptor-alpha interactions with metabotropic glutamate receptor 1a modulate female sexual receptivity in rats. *Journal of Neuroscience* 2007; 27(35): 9294-9300.

Chaban V, **Christensen A**, Wakamatsu M, McDonald M, Rapkin A, McDonald J, Micevych P. The same dorsal root ganglion neurons innervate uterus and colon in the rat. *NeuroReport* 2007; 18(3):209-212.

Professional Memberships

Society for Neuroscience	2006 – Present
Organization for the Study of Sex Differences	2018 – Present
Alzheimer's Association	2019 – Present