



Chao-Yin Chen, Ph.D.

Research/Academic Interests

Chao-Yin Chen's research interests include central neuroplasticity in cardiovascular regulation. Synopsis: Blood pressure and heart rate are regulated by CNS on a moment-to-moment bases. Depending on the interaction between the genetic and environmental factors, the CNS regulatory output can result in either a normal or a pathological outcome.

My research focuses on central regulation of cardiovascular function and how this regulation is altered in response to environmental factors such as exercise, stress, exposure to air pollution, hypertension, and obesity. We are particularly interested in how the neurons in the baroreflex pathways change their intrinsic and/or synaptic properties as well as the neurotransmitter/neuromodulator and the receptors involved in the altered regulatory output. Studies are carried out in two major brainstem nuclei: the first central site that receives and integrates sensory information (Nucleus Tractus Solitarii) and the final output for cardiac parasympathetic motor nerves (Nucleus Ambiguus).

Recent/Current Research Funding:

National Institutes of Health

UC Presidents' Undergraduate Fellowship

Title	Associate Professor
Specialty	Pharmacology, Physiology
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Division	Pharmacology
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Education	Ph.D., Physiology, Northeastern Ohio Universities College of Medicine/Kent State University, 1996 B.S., Tunghai University, Taichung, Taiwan, 1986 M.S., Tunghai University, Taichung, Taiwan, 1988



Chao-Yin Chen, Ph.D.

Professional Memberships

American Physiological Society
Society for Neurosciences

Honors and Awards

American Physiological Society, Neural Control and Autonomic Regulation Young Investigator Award, 2003
David B. Smith Fellowship, 1996
Excellence for Doctoral Dissertation, 1996
Excellence in Research Award, 1995
Outstanding Research Assistant Award, 1990

Select Recent Publications

To view Dr. Chen's publications, please [click here](#).

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