Anne H.-H. Tseng

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Education

2004-2013 Ph.D.
Molecular Medicine, National Yang-Ming University and Academia Sinica Graduate Partnership Program, Taiwan International Graduate Program, Taipei, Taiwan

Project I: Investigated the role of oxidized and S-nitrosylated PTEN in cardiovascular disease
Project II: Studied how SIRT3 regulates FOXO3 to mediate mitochondrial homeostasis and hypoxic adaptation in cardiovascular system

1998-2002 B.S.
Department of Botany, National Chung-Hsing University, Taichung, Taiwan

Golden Key Medal Receiver (First Student Award)

Research and Work Experience

2013-Present Postdoctoral Fellow
Laboratory of Molecular Gerontology, National Institute on Aging, National Institutes of Health, Baltimore, MD, U.S.A.
Principal Investigator: Dr. Vilhelm A. Bohr
*Studied how CSA and CSB regulate rDNA stability and mitochondrial function in Cockayne Syndrome

2013 Postdoctoral Fellow
Institute of Medical Sciences, Tzu Chi University, Hualien, Taiwan
Principal Investigator: Dr. Ling D. Wang
*Studied how SIRT3 regulates FOXO3 to mediate mitochondrial homeostasis and hypoxic adaptation in cardiovascular system

2002-2004 Research Assistant, Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan

*Applied high-throughput molecular cloning and large-scale protein expression/purification to increase the quantity and quality of protein for protein crystallization
*Synthesized antimicrobial peptides

1999 Exhibition Guide, National Museum of Natural Science, Taichung, Taiwan

1997 Volunteer, Emergency Room, Changhua Christian Hospital, Changhua, Taiwan

Awards

2013 Seahorse Travel Award (United States)

2012 Excellent Presentation, Winter Workshop, The Taiwan Society of Biochemistry and Molecular Biology (Taiwan)

2012 Keystone Symposia Scholarship (United States)

2012 The Taiwan National Science Council Travel Award (Taiwan)

2012 Federation of European Biochemical Societies (FEBS) Transcontinental Travel Grant for Young Scientists (Germany)

2011 Outstanding Poster, International Conference of Inflammation, Cancer and Metabolic Disorder (Taiwan)

2011 Taiwan International Graduate Program (TIGP) Student Conference Travel Grant (Taiwan)

Societies and Honoraries

2002 Member of the Phi Tao Phi Scholastic Honor Society of the Republic of China.

Presentations

Oral Presentations

2012 Winter Workshop, The Taiwan Society of Biochemistry and Molecular Biology (Taiwan)

2012 NHRI / IBMS Joint International Conference on Inflammation, Cancer and Metabolic Syndrome (Taiwan)

2012 Keystone Symposia Meeting Series- “Aging and Diseases of Aging” (Japan)

2012 FEBS/EMBO Course on “Mitochondria in life, death and disease” (Greece)

2012 Keystone Symposia Meeting Series- “Sirtuins in Metabolism, Aging and Disease”

(United States)

2010 International Conference of Inflammation, Cardiometabolic Diseases and Cancer (Taiwan)

Poster Presentations

2013 Mini-symposium on Mitochondria and Aging (Taiwan)

2013 Cold Spring Harbor Asia conference on Molecular Basis of Aging and Disease (China)

2013 National Heart, Lung, and Blood Institute, Mitochondrial Biology Symposium: Mitochondrial Genetics in Health and Disease. (United States)

2011 National Heart, Lung, and Blood Institute, Mitochondrial Biology Symposium: Advances in Mitochondrial Dynamics and Mitochondrial-Cytosolic Communications (United States)

2011 International Conference of Inflammation, Cancer and Metabolic Disorder (Taiwan)

Publications

Tseng, A.H., Wu, L.H., Shieh, S.S., and Wang, D.L. (2014). SIRT3 interactions with FOXO3 acetylation, phosphorylation and ubiquitinylation mediate endothelial cell responses to hypoxia. The Biochemical journal 464, 157-168.

Hsieh, H.J., Liu, C.A., Huang, B., **Tseng, A.H.**, and Wang, D.L. (2014). Shear-induced endothelial mechanotransduction: the interplay between reactive oxygen species (ROS) and nitric oxide (NO) and the pathophysiological implications. Journal of biomedical science 21, 3.

Tseng, A.H., Shieh, S.S., and Wang, D.L. (2013). SIRT3 deacetylates FOXO3 to protect mitochondria against oxidative damage. Free radical biology & medicine 63, 222-234.