

Hongtian 'Stanley' Yang, Ph.D.

The Jackson Laboratory
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Education

Shanghai University, Shanghai, China Sept 2002 – July 2006
B.S. Bioengineering

Shanghai University, Shanghai, China Sept 2006 – July 2009
M.S. Biochemistry and Molecular Biology

Louisiana State University Health Sciences Center, New Orleans, LA, USA Aug 2009 – Dec 2015
Ph.D. Neuroscience

Positions

Postdoctoral Associate, The Jackson Laboratory Oct 2016 – present
Bar Harbor, ME, USA
Preceptor: Dr. Gareth Howell, Genetics and Genomics
Determining genetic modifiers/drivers of brain myeloid cells in Alzheimer's disease

Postdoctoral Fellow, Louisiana State University Health Sciences Center Jan 2016 – Oct 2016
New Orleans, LA, USA
Preceptor: Dr. Houhui Xia, Neuroscience
Studying the regulation of Protein Phosphatase 1 in synaptic plasticity and memory formation

Ph.D. Research Fellow, Louisiana State University Health Sciences Center Aug 2009 – Dec 2015
New Orleans, LA, USA
Preceptor: Dr. Houhui Xia, Neuroscience
Studying the regulation of Protein Phosphatase 1 in synaptic plasticity and memory formation

M.S. Research Fellow, Shanghai University Sept 2006 – July 2009
Shanghai, China
Preceptor: Dr. Yonghua Ji, Biochemistry and Molecular Biology
Investigating the modulation of sodium channels by scorpion toxins and local anesthetics

Awards

Alzheimer's Association Research Fellowship (\$175,000 for 3 years), Alzheimer's Association 2018

Scholarship of Single Cell Analysis course, Cold Spring Harbor Laboratory 2017

Research fund from Grants-In-Aid of Research, Sigma Xi 2014

Outstanding Trainee of Electrophysiological Workshop, Fudan University, Shanghai, China 2007

College scholarship, Shanghai University, China 2002 – 2006

Other Experience and Professional Membership

Data Carpentry workshop Instructor , The Jackson Laboratory Workshops including: Ecology workshop, R for Reproducible Scientific Analysis	2018
Single Cell Analysis course (two weeks), Cold Spring Harbor Laboratory	2017
ad hoc journal reviewer for PloS One, Molecular Neurobiology and Neurochemical Research (reviewed more than 20 manuscripts)	2016 – present
Member , Sigma Xi	2014 – present
Member , Society for Neuroscience	2009 – present

Publications

Graham.C.G*, **H. Yang***, A. M. Reagan and G. R. Howell (2018). Defining a novel population of complement-expressing CD11b⁺CD11c⁺ myeloid cells in aging and neurodegenerative diseases (Manuscript under preparation) * **Authors contributed equally**

Gao, J., X Hu, **H. Yang**, H. Xia (2018). "Distinct Roles of Protein Phosphatase 1 Bound on Neurabin and Spinophilin and Its Regulation in AMPA Receptor Trafficking and LTD Induction" **Mol Neurobiol** doi:10.1007/s12035-018-0886-2

Yang, H., H.Hou, A.Pahng, H.Gu, A. Nairn, Y. Tang, P. Colombo, H. Xia (2015). "Protein phosphatase-1 inhibitor-2 is a novel memory suppressor" **J Neurosci** 35(45): 15082-15087

Hou, H., A. E. Chavez, C. C. Wang, **H. Yang**, H. Gu, B. A. Siddoway, B. J. Hall, P. E. Castillo and H. Xia (2014). "The Rac1 inhibitor NSC23766 suppresses CREB signaling by targeting NMDA receptor function." **J Neurosci** 34(42): 14006-14012

Siddoway, B., H. Hou, J. Yang, L. Sun, **H. Yang**, G. Y. Wang and H. Xia (2014). "Potassium channel Kv2.1 is regulated through protein phosphatase-1 in response to increases in synaptic activity." **Neurosci Lett** 583: 142-147

Hou, H., L. Sun, B. A. Siddoway, R. S. Petralia, **H. Yang**, H. Gu, A. C. Nairn and H. Xia (2013). "Synaptic NMDA receptor stimulation activates PP1 by inhibiting its phosphorylation by Cdk5." **J Cell Biol** 203(3): 521-535.

Siddoway, B., H. Hou, **H. Yang**, R. Petralia and H. Xia (2014). "Synaptic activity bidirectionally regulates a novel sequence-specific S-Q phosphoproteome in neurons." **J Neurochem** 128(6): 841-851.

Cheng, H. W.*, **H. T. Yang***, J. J. Zhou, Y. H. Ji and H. Y. Zhu (2010). "Pharmacological modulation of brain Nav1.2 and cardiac Nav1.5 subtypes by the local anesthetic ropivacaine." **Neurosci Bull** 26(4): 289-296. * **Authors contributed equally**

Liu, Y., Z. T. Bai, X. H. Feng, W. P. Li, **H. T. Yang**, J. J. Zhou and Y. H. Ji (2009). "Hyper-excitability in low threshold mechanical A fibers is potentially involved in scorpion BmK sting pain." **Brain Res Bull** 80(3): 116-121.

Zhu, M. M., J. Tao, M. Tan, **H. T. Yang** and Y. H. Ji (2009). "U-shaped dose-dependent effects of BmK AS, a unique scorpion polypeptide toxin, on voltage-gated sodium channels." **Br J Pharmacol** 158(8): 1895-1903.

Xu, Q., H. W. Cheng, H. Q. He, Z. R. Liu, M. He, **H. T. Yang**, Z. L. Zhou and Y. H. Ji (2008). "Deglycosylation altered the gating properties of rNav1.3: glycosylation/deglycosylation homeostasis probably complicates the functional regulation of voltage-gated sodium channel." **Neurosci Bull** 24(5): 283-287.

Conference Abstract

H. Yang, L. C. Graham, A. M. Reagan, G. R. Howell, Defining a novel population of complement-expressing CD11b⁺CD11c⁺ myeloid cells in aging and neurodegenerative diseases (Poster, Society for Neuroscience, San Diego, 2018)

H. Yang, L. C. Graham, A. M. Reagan, G. R. Howell, Defining a novel population of complement-expressing CD11b⁺CD11c⁺ myeloid cells in aging, diet and Alzheimer's disease (Poster, Neuro-Immunology Seminar of New York Academy of Sciences, New York, 2018)

R. Libby, **H. Yang**, S. Syc-Mazurek, J. Harder, S. John, G. Howell, JNK dependent MAPK signaling has multiple roles in axon injury induced retinal ganglion cell death (Poster, XXIII Biennial Meeting of the International Society for Eye Research, 2018)

H. Yang, H. Hou, H. Xia, Applying proximity ligation assay to study interaction of PP1 with I2 or CREB in response to neuronal activity. (Poster, Society for Neuroscience, San Diego, 2016)

H. Yang, H. Hou, E. R. Hellard, C. Itoga, B. Baynes, Y. Tang, N. W. Gilpin, H. Xia, Inhibitor-2, a regulator of protein phosphatase-1, mediates alcohol withdrawal anxiety-like behavior in rats (Poster, Society for Neuroscience, Chicago, 2015)

A. Pahng, **H. Yang**, H. Xia and P. Colombo, Lentiviral knock down of inhibitor-2 in the dorsal hippocampus enhances spatial memory and contextual fear conditioning. (Poster, Society for Neuroscience, Chicago, 2015)

H. Yang, J. Gao, X. Hu, H. Xia, Distinct roles of neurabin and spinophilin in the targeting and regulation of protein phosphatase 1 in AMPA receptor trafficking and LTD induction (Poster, Society for Neuroscience, D.C., 2014)

H. Yang, B. Siddoway, H. Hou, G. Wu and H. Xia, Study the interaction between protein phosphatase-1 and its binding proteins by bioluminescence resonance energy transfer (Poster, Society for Neuroscience, New Orleans, 2012)

H. Yang, B. Siddoway, H. Hou, M. Dell'Acqua, and H. Xia, Studying the interaction between protein phosphatase 1 and its binding proteins by bioluminescence resonance energy transfer (Poster, Society for Neuroscience, D.C., 2011)

Outreach

Alzheimer's Volunteer Service Alzheimer's Association Maine Chapter and The Jackson Laboratory	2018
Public and VIP Tour Guide The Jackson Laboratory	2017 – present
Volunteer for Brain Awareness Week Society for Neuroscience Great New Orleans Chapter	2011 – 2016