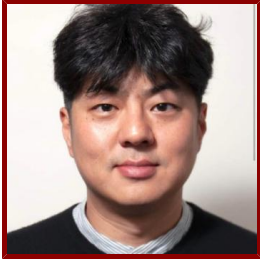


Stanford



Sung Soo Jang

Postdoctoral Scholar, Neurology and Neurological Sciences

 Curriculum Vitae available Online

Bio

BIO

Dr.Jang is a passionate neuroscientist who has strong interests in investigating the mechanisms that underly neurological disorders such as Epilepsy and Alzheimer's disease (AD).

HONORS AND AWARDS

- 2018 Pre-Doctoral Fellowship, American Epilepsy Society (2018)
- 2015 Pre-Doctoral Research Award, Association of Korean Neuroscientist, USA (2015)

PROFESSIONAL EDUCATION

- Post-Doc, Gladstone Institute of Neurological Disease, CA, USA , Neuroscience (2021)
- Doctor of Philosophy, University of Illinois at Urbana-Champaign, IL, USA , Neuroscience (2019)
- Master of Science, Seoul National University, Seoul, South Korea , Neuroscience (2009)
- Bachelor of Science, Konkuk University, Seoul, South Korea , Biological Science (2007)

STANFORD ADVISORS

- John Huguenard, Postdoctoral Faculty Sponsor

COMMUNITY AND INTERNATIONAL WORK

- Volunteer, Champaign, IL

LINKS

- Epilepsy Story (#####): <https://www.facebook.com/groups/284859028671184>

Publications

PUBLICATIONS

- **A β initiates brain hypometabolism, network dysfunction and behavioral abnormalities via NOX2-induced oxidative stress in mice.** *Communications biology* Malkov, A., Popova, I., Ivanov, A., Jang, S. S., Yoon, S. Y., Osypov, A., Huang, Y., Zilberter, Y., Zilberter, M. 2021; 4 (1): 1054
- **A sensitive and specific nanosensor for monitoring extracellular potassium levels in the brain** *NATURE NANOTECHNOLOGY* Liu, J., Li, F., Wang, Y., Pan, L., Lin, P., Zhang, B., Zheng, Y., Xu, Y., Liao, H., Ko, G., Fei, F., Xu, C., Du, et al 2020; 15 (4): 321-+
- **TNF- α increases the intrinsic excitability of cerebellar Purkinje cells through elevating glutamate release in Bergmann Glia.** *Scientific reports*

- Shim, H. G., Jang, S. S., Kim, S. H., Hwang, E. M., Min, J. O., Kim, H. Y., Kim, Y. S., Ryu, C., Chung, G., Kim, Y., Yoon, B. E., Kim, S. J.
2018; 8 (1): 11589
- **Helicobacter pylori Infection Modulates Host Cell Metabolism through VacA-Dependent Inhibition of mTORC1.** *Cell host & microbe*
Kim, I. J., Lee, J., Oh, S. J., Yoon, M. S., Jang, S. S., Holland, R. L., Reno, M. L., Hamad, M. N., Maeda, T., Chung, H. J., Chen, J., Blanke, S. R.
2018; 23 (5): 583-593.e8
 - **Electroconvulsive Seizures in Rats and Fractionation of Their Hippocampi to Examine Seizure-induced Changes in Postsynaptic Density Proteins.** *Journal of visualized experiments : JoVE*
Jang, S. S., Jeong, H. G., Chung, H. J.
2017
 - **mGlu1 receptor mediates homeostatic control of intrinsic excitability through Ih in cerebellar Purkinje cells.** *Journal of neurophysiology*
Shim, H. G., Jang, S. S., Jang, D. C., Jin, Y., Chang, W., Park, J. M., Kim, S. J.
2016; 115 (5): 2446-55
 - **Seizure-Induced Regulations of Amyloid- β , STEP61, and STEP61 Substrates Involved in Hippocampal Synaptic Plasticity.** *Neural plasticity*
Jang, S. S., Royston, S. E., Lee, G., Wang, S., Chung, H. J.
2016; 2016: 2123748
 - **Emerging Link between Alzheimer's Disease and Homeostatic Synaptic Plasticity.** *Neural plasticity*
Jang, S. S., Chung, H. J.
2016; 2016: 7969272
 - **Regulation of STEP61 and tyrosine-phosphorylation of NMDA and AMPA receptors during homeostatic synaptic plasticity.** *Molecular brain*
Jang, S. S., Royston, S. E., Xu, J., Cavaretta, J. P., Vest, M. O., Lee, K. Y., Lee, S., Jeong, H. G., Lombroso, P. J., Chung, H. J.
2015; 8 (1): 55
 - **The phosphorylation of STAT6 during ischemic reperfusion in rat cerebral cortex.** *Neuroreport*
Jang, S. S., Choi, J. H., Im, D. S., Park, S., Park, J. S., Park, S. M., Joe, E. H., Jou, I., Suh, Y. H.
2014; 25 (1): 18-22
 - **Endothelial progenitor cells functionally express inward rectifier potassium channels.** *American journal of physiology. Cell physiology*
Jang, S. S., Park, J., Hur, S. W., Hong, Y. H., Hur, J., Chae, J. H., Kim, S. K., Kim, J., Kim, H. S., Kim, S. J.
2011; 301 (1): C150-61
 - **A role of canonical transient receptor potential 5 channel in neuronal differentiation from A2B5 neural progenitor cells.** *PloS one*
Shin, H. Y., Hong, Y. H., Jang, S. S., Chae, H. G., Paek, S. L., Moon, H. E., Kim, D. G., Kim, J., Paek, S. H., Kim, S. J.
2010; 5 (5): e10359
 - **Agonist-induced internalization of mGluR1 alpha is mediated by caveolin** *JOURNAL OF NEUROCHEMISTRY*
Hong, Y. H., Kim, J. Y., Lee, J. H., Chae, H. G., Jang, S. S., Jeon, J. H., Kim, C. H., Kim, J., Kim, S. J.
2009; 111 (1): 61-71