

Publications

Publications

1. Berglund, K., Wen, L., Dunbar, R.L., Feng, G. and **G.J. Augustine** (2016).
Optogenetic visualization of presynaptic tonic inhibition of cerebellar parallel fibers.
J. Neurosci. 36:5709-5723.
2. S-H. Song and **G.J. Augustine**. (2016)
Synapsin isoforms regulating GABA release from hippocampal interneurons.
J. Neurosci. 36:6742-6757.
3. K. Berglund, K. Clissold, L. Wen, S.Y. Park, J. Gleixner, M.E. Klein, J.W. Barter, M.A. Rossi, **G.J. Augustine**, H.H. Yin, and U. Hochgeschwender (2016)
Luminopsins: integrating opto- and chemogenetics by using physical and biological light sources for opsin activation.
Proc Natl Acad Sci U S A. 113:E358-67.
4. S. Chen, **G.J. Augustine** and P. Chadderton (2016) The cerebellum linearly encodes whisker position during voluntary movement.
eLife 5: e10509.
5. Kim, J., Lee, S., Tsuda, S., Zhang, X., Asrican, B., Gloss, B., Feng, G. and **G.J. Augustine** (2014)
Optogenetic mapping of local inhibitory circuitry in cerebellum reveals spatial coordination of interneurons via electrical synapses.
Cell Reports 7: 1601-1613.
6. Heiney SA, Kim J, **Augustine GJ**, Medina JF. (2014) Precise control of movement kinematics by optogenetic inhibition of Purkinje cell activity.
J Neurosci. 34:2321-2330.
7. Grimley, J.S., L. Li, W. Wang, L.S. Beese, H.W. Hellinga, and **G.J. Augustine** (2013)
Visualization of synaptic inhibition with an optogenetic sensor developed by cell-free protein engineering automation.]
J. Neurosci. 33:16297-16309.
8. Asrican, B., **Augustine, G.J.**, Berglund, K., Chen, S., Chow N., Deisseroth, K., Feng, G., Gloss, B., Hira, R., Hoffman, C., Kasai, H., Katarya, M., Kim, J., Kudolo, J., Lee,

L.M., Lo, S.Q., Mancuso, J., Matsuzaki, M., Nakajima, R., Qiu, L., Tan, G., Tang, Y., Ting, J.T., Tsuda, S., Wen, L., Zhang, X. and Zhao, S. (2013)
Next-generation transgenic mice for optogenetic analysis of neural circuits.
Front. Neural Circuits 7:160.

9. Kim A, Latchoumane C, Lee S, Kim GB, Cheong E, **Augustine GJ**, Shin HS. (2012)
Optogenetically induced sleep spindle rhythms alter sleep architectures in mice.
Proc Natl Acad Sci U S A.109:20673-20678.

10. Lee S, Yoon BE, Berglund K, Oh SJ, Park H, Shin HS, **Augustine GJ**, Lee CJ. (2010)
Channel-mediated tonic GABA release from glia.
Science. 330:790-796.