KOREA-US
Frontiers in Health and Life Sciences
2025. 11. 6(Thu) - 7(Fri)
Four Seasons Hotel, Grandballroom(3F)

Curriculum Vitae

Name	**First Name**	Gloria	**Last Name**	Choi
Country	USA			
Affiliation	The Picower Institute for Learning and Memory, MIT			

Educational Background

1995 University of California, Berkeley
B.A. in Molecular and Cellular Biology

2005 California Institute of Technology
Ph.D. in Biology, Thesis Advisor: Professor David Anderson

Professional Career

2005–2006 Postdoctoral Research Scientist, Department of Biology, California Institute of Technology, Pasadena, CA, Laboratory of David J. Anderson
2006–2012 Postdoctoral Research Scientist, Center for Neurobiology & Behavior, Columbia University, New York, NY, Laboratory of Richard Axel
2012–2013 Associate Research Scientist, Center for Neurobiology & Behavior, Columbia University, New York, NY, Laboratory of Richard Axel
2013–2018 Investigator, McGovern Institute for Brain Research, MIT, Cambridge, MA
2013–2020 Assistant Professor, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA
2019 – Investigator, Picower Institute for Learning and Memory, MIT, Cambridge, MA
2020 – Associate Professor, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA

Research Field

Neuroscience, Neuro-immunology

Papers, Books, etc. presented or published by your name

Selected Publications

Yang, L., Andina, M.L., King, H., Wickersham, I., Huh, R.H.* and **Choi, G.B.*** (2025). IL-1R-expressing dorsal raphe neurons mediate self-imposed social withdrawal during sickness. *Cell*. In Press.

Lu, G., Zhang, S., Feng, M., Kim, E., Cho, D., Kim, J.H., Caris, H., Silberstein, L., **Choi, G.B.*** and Huh, R.H.* (2025). A new approach for detecting immune responses with *in vivo* labeling of cytokine activity. *Cell*. In Press. *co-corresponding author

Lee, B., Kwon, J.T., Jeong, Y., Caris, H., Oh, D., Feng, M., Mejia, I.D., Zhang, X., Ishikawa, T., Watson, B.R., Moffitt, J.R., Chung, K., Huh, J.R.*, **Choi, G.B.*** (2025). Inflammatory and anti-inflammatory cytokines bidirectionally modulate amygdala circuits regulating anxiety. *Cell*. 188(8):2190-2202. PMID:40199321.

Lee, Y., Ishikawa, T., Lee, H., Lee, B., Ryu, C., Mejia, I.D., Kim, M., Lu, G., Hong, Y., Feng, M., Shin, H., Meloche, S., Locksley, R.M., Koltsova, E., Grivennikov, S.I., Heiman, M., **Choi, G.B.*** and Huh, J.R.* (2025). Brain-wide mapping of immune receptors uncovers a neuro-modulatory role of interleukin-17E and the receptor IL-17RB. *Cell*. 18(8):2203-2217. PMID:40199322. *co-corresponding author

Kim, E., Paik, D., **Choi, G.B**.* and Huh, J.R.* (2022). Maternal gut bacteria drive intestinal inflammation in offspring with neurodevelopmental disorders by altering the chromatin landscape of CD4+ T cells. *Immunity*. 55(1):145-158. PMID:34879222. *co-corresponding author

Kwon, J., Ryu, C., Lee, H., Sheffield, A., Fan, J., Cho, D.H., Bigler, S., Sullivan, H.A., Choe, H.K., Wickersham, I.R., Heiman, M. and **Choi, G.B.** (2021). An amygdala circuit that suppresses social engagement. *Nature*. 593(7857):114-118. PMID:33790466.

Reed, M.D., Yim, Y.S., Wimmer, R.D., Kim, H., Ryu, C., Welch, G.M., Andina, M., King, H.O., Waisman, A., Halassa, M.M., Huh, J.R.* and **Choi, G.B.*** (2020). IL-17a promotes sociability in mouse models of neurodevelopmental disorders. *Nature*. 577(7789):249-253. PMID:31853066.

Shin Yim, Y., Park, A., Berrios, J., Lafourcade, M., Pascual, L.M., Soares, N., Yeon Kim, J., Kim, S., Kim, H., Waisman, A., Littman, D.R., Wickersham, I.R., Harnett, M.T., Huh, J.R.* and **Choi, G.B.*** (2017). Reversing behavioural abnormalities in mice exposed to maternal inflammation. *Nature*. 549(7673):482-487. PMID:28902835.

Kim, S.D., Kim, H., Yim, Y.S., Ha, S., Atarashi, K., Tan, T.G., Longman, R.S., Honda, K., Littman, D.R., **Choi, G.B.*** and Huh, J.R.* (2017). Maternal gut bacteria promote neurodevelopmental abnormalities in mouse offspring. *Nature*. 549(7673):528-532. PMID:28902840. *co-corresponding author

Choi, G.B., Yim, Y.S., Wong, H., Kim, S.D., Kim, H.J., Kim, S.V., Hoeffer, C.A., Littman, D.R., and Huh, J.R. (2016). The maternal interleukin-17a pathway in mice promotes autism-like phenotypes in offspring. *Science*. 351(6276):933-9. PMID:26822608.

Choe, H.K., Reed, M.D., Benavidez, N., Montgomery, D., Soares, N., Yim, Y.S. and **Choi, G.B.** (2015). Oxytocin mediates entrainment of sensory stimuli to social cues of opposing valence. *Neuron*. 87(1):152-163. PMID:26139372.

Choi, G.B., Stettler, D.D., Kallman, B.R., Bhaskar, S.T., Fleishman, A. and Axel, R. (2011). Driving opposing behaviors with ensembles of piriform neurons. *Cell*. 146(6):1004-15. PMID:21925321.

Choi, G.B., Dong, H.W., Murphy, A.J., Valenzuela, D.M., Yancopoulos, G.D., Swanson, L.W., and Anderson, D.J. (2005). Lhx6 delineates a pathway mediating innate reproductive behaviors from the amygdala to the hypothalamus. *Neuron.* 46(4):647-60. PMID:15944132.