

Aaron Milstein, PhD

Assistant Professor

Dept. of Neuroscience and Cell Biology/Dept. of Neurosurgery

Resident Faculty at Center for Advanced Biotechnology and Medicine

PhD, University of California, San Francisco, 2009

Postdoc, HHMI Janelia Research Campus, VA, 2009 - 2016

Stanford University School of Medicine, CA, 2016 - 2020

Phone: 848-445-9854

Email: milstein@cabm.rutgers.edu

Lab Website: <https://cabm.rutgers.edu/research/milstein-lab>

Office location: Center for Advanced Biotechnology and Medicine (CABM), Room 238,

Piscataway, NJ 08854

Research Interests: Neural computation and circuit mechanisms of rapid associative learning in health and disease

Current funding: National Institute of Mental Health

Selected Publications: For complete list:

<https://www.ncbi.nlm.nih.gov/myncbi/1Zi3ckjy5rVAD/bibliography/public/>

Milstein AD, Li Y, Bittner KC, Grienberger C, Soltesz I, Magee JC, Romani S. Bidirectional synaptic plasticity rapidly modifies hippocampal representations independent of correlated activity. bioRxiv. 2020 February; :2020.02.04.934182. doi: 10.1101/2020.02.04.934182.

Bittner KC, Milstein AD, Grienberger C, Romani S, Magee JC. [Behavioral time scale synaptic plasticity underlies CA1 place fields.](#) Science. 2017 Sep 8;357(6355):1033-1036. doi:

10.1126/science.aan3846. PubMed PMID: 28883072; PubMed Central PMCID: PMC7289271.

Grienberger C, Milstein AD, Bittner KC, Romani S, Magee JC. [Inhibitory suppression of heterogeneously tuned excitation enhances spatial coding in CA1 place cells.](#) Nat

Neurosci. 2017 Mar;20(3):417-426. doi: 10.1038/nn.4486. Epub 2017 Jan 23. PubMed PMID: 28114296.