

Publications

- [1] Goldberg JH, Farries MA and Fee MS. The role of basal ganglia outputs in behavior-related thalamic signaling: still a paradox. *In preparation*.
- [2] Goldberg JH, Farries MA and Fee MS. Integration of cortical and pallidal inputs in the basal ganglia-recipient thalamus of singing birds. *In press*, Journal of Neurophysiology.
- [3] Goldberg JH and Fee MS. A cortical motor nucleus drives the basal ganglia-recipient thalamus in singing birds. *Nature Neuroscience*. 2012 Feb 12;15(4):620-7.
- [4] Goldberg JH and Fee MS. A hypothesis for basal ganglia dependent reinforcement learning in the songbird. *Neuroscience*. 2011 Dec 15;198:152-70.
- [5] Aronov D, Veit L, Goldberg JH, Fee MS. Two distinct modes of forebrain circuit dynamics underlie temporal patterning in the vocalizations of young songbirds. *Journal of Neuroscience*. 2011 Nov 9;31(45): 16353-68
- [6] Goldberg JH and Fee MS. Vocal babbling in songbirds requires the basal ganglia-recipient motor thalamus. *Journal of Neurophysiology*. 2011 Jun;105(6):2729-39.
- [7] Ölveczky BP, Otchy T, Goldberg JH, Aronov D, Fee MS. "Changes in the neural control of a complex motor sequence during learning." *Journal of Neurophysiology*. 2011 Jul;106(1):386-97.
- [8] Goldberg JH, Adler A, Bergman H, and Fee MS. "Singing related neural activity distinguishes two classes of putative pallidal neuron in the songbird basal ganglia: Comparison to the primate internal and external pallidal segments." *Journal of Neuroscience*. 2010 May 19;30(20):7088-98
- [9] Goldberg JH and Fee MS. "Singing related neural activity distinguishes four classes of putative striatal neuron in the songbird basal ganglia." *Journal of Neurophysiology*. 2010 Apr;103(4):2002-14.
- [10] Petilla Cortical Interneuron Nomenclature Group. "Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex." *Nature Reviews Neuroscience*. 2008 Jul;9(7):557-68. Review
- [11] Skeberdis V, Chevaleyre V, Suadicani SO, Goldberg JH, Bennett MVL, Yuste R, Castillo PE and Zukin RS. "Protein kinase A promotes LTP induction by increasing calcium permeability of NMDA receptors in dendritic spines." *Nature Neuroscience*, 2006 Apr 9(4) 501-510.

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[12] Goldberg JH and Yuste R. "Space Matters: Local and global dendritic calcium compartmentalization in cortical interneurons." Trends in Neurosciences. 2005 Mar;28(3):158-67.

[13] Goldberg JH, Lacefield CO, Yuste R. Global dendritic calcium spikes in mouse layer 5 low-threshold spiking (LTS) interneurons: implications for control of pyramidal bursting. Journal of Physiology. 2004 Jul 15;558(Pt 2):465-78.

[14] Goldberg JH, Tamas G, Aronov D, Yuste R. Calcium microdomains in aspiny dendrites. Neuron (Cover article). 2003 Nov 13;40(4):807-21.

[15] Goldberg JH, Tamas G, Yuste R. Ca²⁺ imaging of mouse neocortical interneuron dendrites: Ia-type K⁺ channels control action potential backpropagation. Journal of Physiology (Previewed article). 2003 Aug 15;551:49-65.

[16] Goldberg JH, Yuste R, Tamas G. Ca²⁺ imaging of mouse neocortical interneuron dendrites: Contribution of Ca²⁺-permeable AMPA and NMDA receptors to subthreshold Ca²⁺ dynamics. Journal of Physiology (Previewed article). 2003 Aug 15;551:67-78.

[17] Goldberg J, Holthoff K, Yuste R. A Problem with Hebb and local spikes. Trends in Neurosciences. 2002 Sep; 25(9): 433-5.

[18] Hirase H, Nikolenko V, Goldberg JH, Yuste R. Multiphoton stimulation of neurons. Journal of Neurobiology. 2002 Jun 5; 51(3):237-47.

[19] Tashiro A, Goldberg J, Yuste R. Calcium oscillations in neocortical astrocytes under epileptiform conditions. Journal of Neurobiology. 2002 Jan;50(1):45-55

[20] Badea T, Tashiro A, Goldberg J, Mao B, Yuste R. Imaging epileptiform events in juvenile neocortical slices with single cell resolution. Journal of Neurobiology. 2001 Sep 5;48(3):215-27.

[21] Cavallaro S, Meiri N, Yi C, Musco S, Ma W, Goldberg JH, Alkon DL. Late memory-related genes in the hippocampus revealed by RNA fingerprinting, PNAS 94 (1999): 9669-9673.