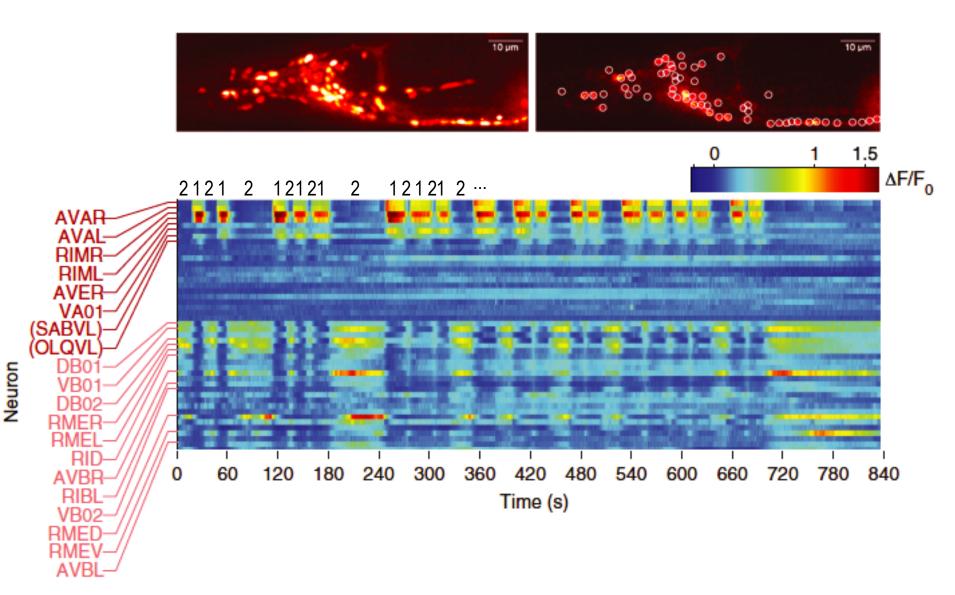
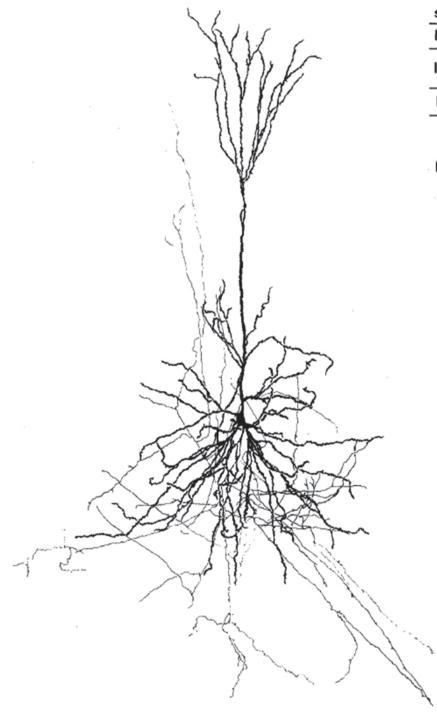
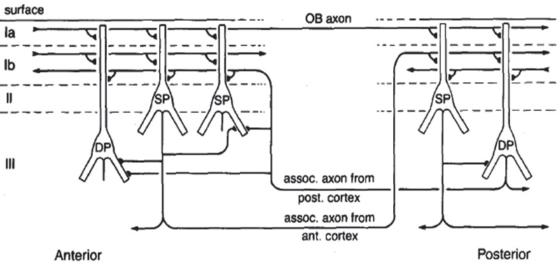
Global Brain Dynamics Embed the Motor Command Sequence of Caenorhabditis elegans

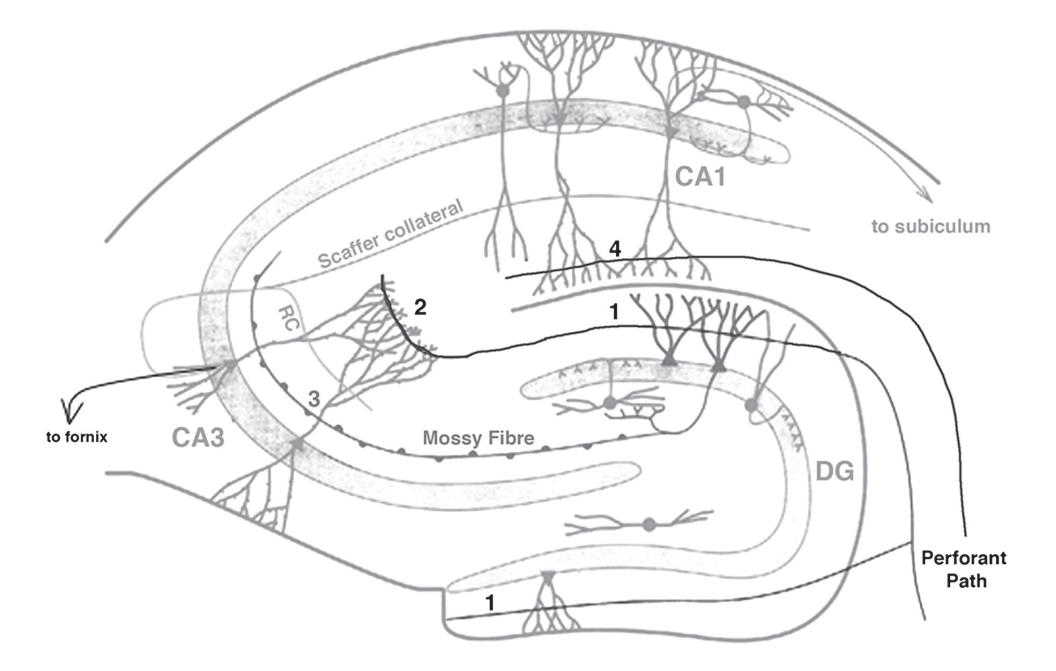
Saul Kato,^{1,4} Harris S. Kaplan,^{1,4} Tina Schrödel,^{1,4} Susanne Skora,¹ Theodore H. Lindsay,^{2,5} Eviatar Yemini,³ Shawn Lockery,² and Manuel Zimmer^{1,*}

http://dx.doi.org/10.1016/j.cell.2015.09.034





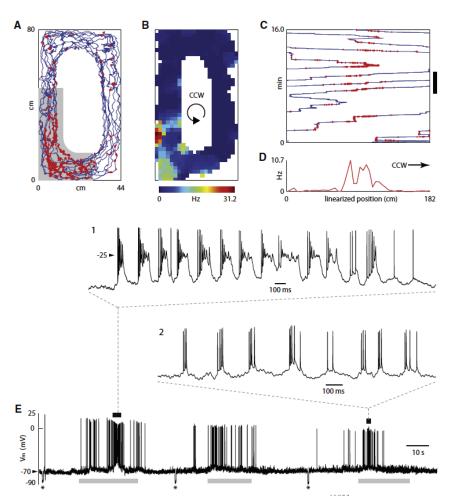




Neuron Article

Intracellular Determinants of Hippocampal CA1 Place and Silent Cell Activity in a Novel Environment

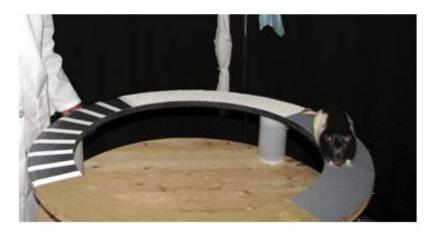
Jérôme Epsztein,^{1,2,3,4} Michael Brecht,¹ and Albert K. Lee^{1,5,*} ¹Bernstein Center for Computational Neuroscience, Humboldt University, Berlin 10115, Germany ²Institut de Neurobiologie de la Méditerranée, Marseille 13273, France ³Institut National de la Santé et de la Recherche Médicale U901, Marseille 13273, France ⁴Université de la Méditerranée Aix-Marseille II, UMR S901, Marseille 13273, France ⁵Howard Hughes Medical Institute, Janelia Farm Research Campus, Ashburn, VA 20147, USA *Correspondence: leea@janelia.hhmi.org DOI 10.1016/j.neuron.2011.03.006



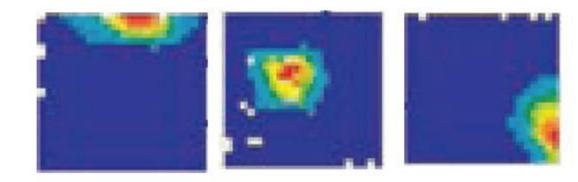
Box

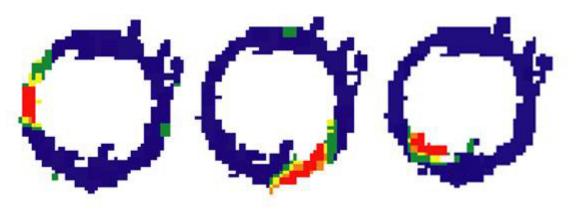


Circular Track

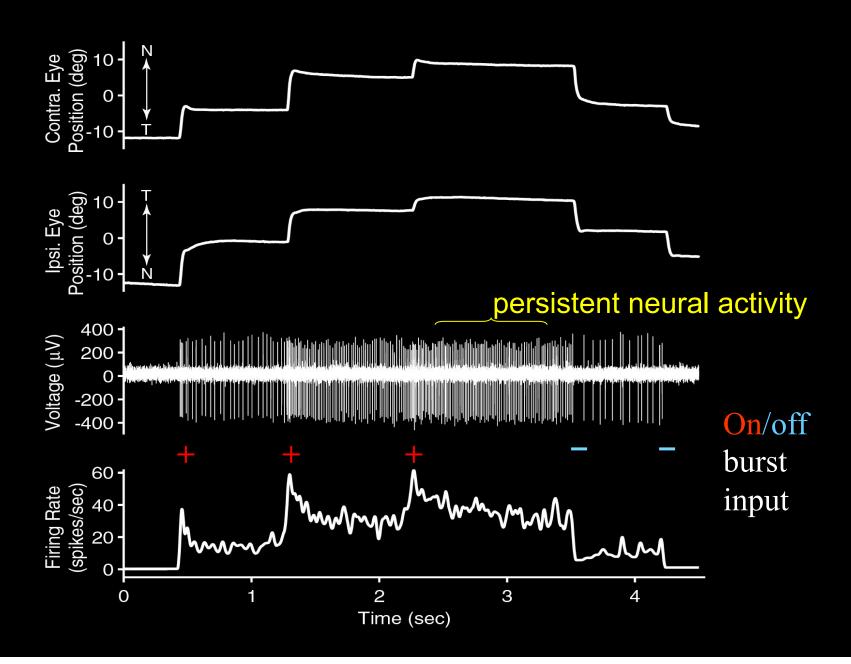


Hippocampal Place Fields





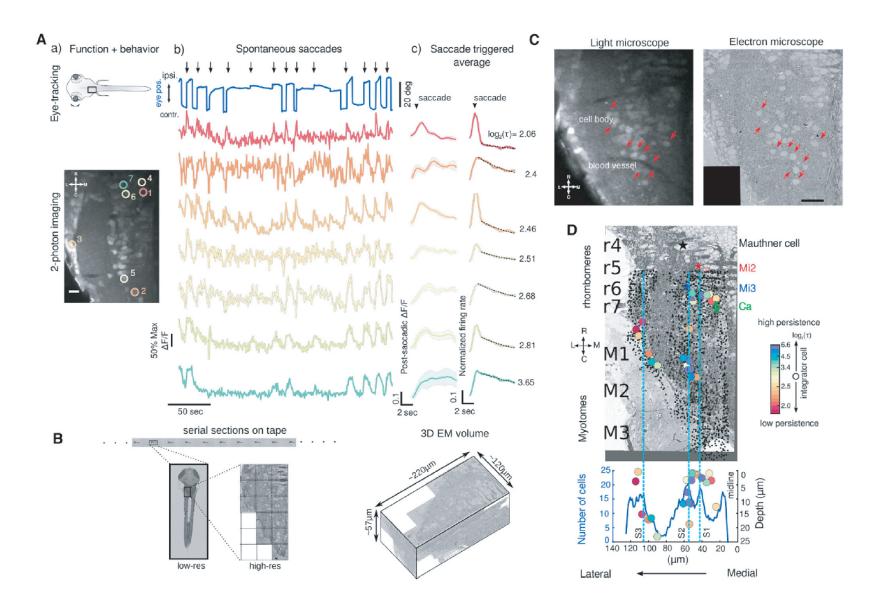
Neural Recording from the Oculomotor Integrator



Current Biology

Electron Microscopic Reconstruction of Functionally Identified Cells in a Neural Integrator

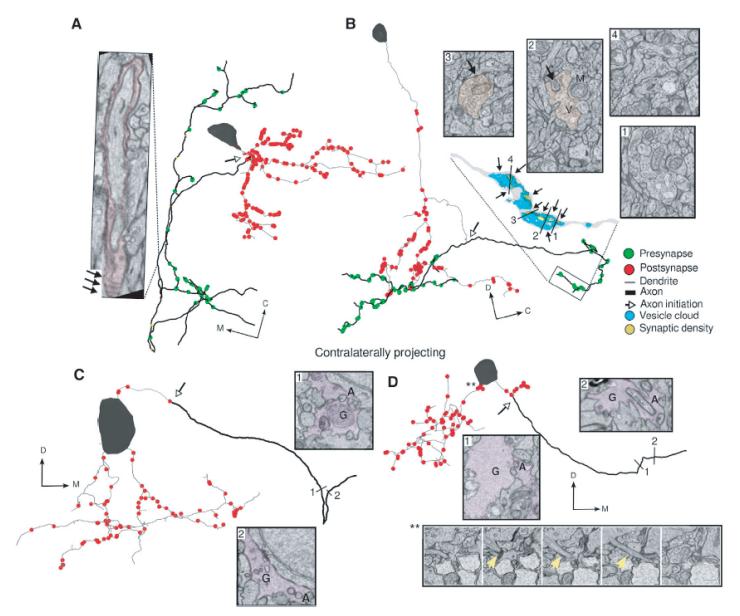
Ashwin Vishwanathan,^{1,5,*} Kayvon Daie,³ Alexandro D. Ramirez,³ Jeff W. Lichtman,⁴ Emre R.F. Aksay,³ and H. Sebastian Seung^{1,2,*}



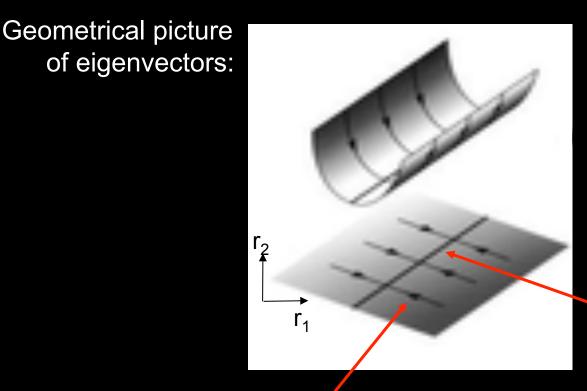
Current Biology

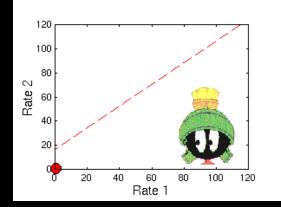
Electron Microscopic Reconstruction of Functionally Identified Cells in a Neural Integrator

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Line Attractor Picture of the Neural Integrator





 No decay along direction of eigenvector with eigenvalue = 1

Decay along direction of eigenvectors with eigenvalue < 1

"Line Attractor" or "Line of Fixed Points"

Seung Integrator Model (15 neurons)

