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### Publications

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#### PUBLICATIONS

- **Synaptic molecular imaging in spared and deprived columns of mouse barrel cortex with array tomography.** *Scientific data*  
Weiler, N. C., Collman, F., Vogelstein, J. T., Burns, R., Smith, S. J.  
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- **Synaptic molecular imaging in spared and deprived columns of mouse barrel cortex with array tomography** *SCIENTIFIC DATA*  
Weiler, N. C., Collman, F., Vogelstein, J. T., Burns, R., Smith, S. J.  
2014; 1
- **The Open Connectome Project Data Cluster: Scalable Analysis and Vision for High-Throughput Neuroscience.** *Scientific and statistical database management : International Conference, SSDBM ... : proceedings. International Conference on Scientific and Statistical Database Management*  
Burns, R., Roncal, W. G., Kleissas, D., Lillaney, K., Manavalan, P., Perlman, E., Berger, D. R., Bock, D. D., Chung, K., Grosenick, L., Kasthuri, N., Weiler, N. C., Deisseroth, et al  
2013
- **Deep molecular diversity of mammalian synapses: why it matters and how to measure it** *NATURE REVIEWS NEUROSCIENCE*  
O'Rourke, N. A., Weiler, N. C., Micheva, K. D., Smith, S. J.  
2012; 13 (6): 365-379
- **Single-Synapse Analysis of a Diverse Synapse Population: Proteomic Imaging Methods and Markers** *Neuron*  
Micheva KD, Busse B, Weiler NC, O'Rourke N, Smith SJ  
2010; 68: 639-653
- **Top-down laminar organization of the excitatory network in motor cortex** *NATURE NEUROSCIENCE*  
Weiler, N., Wood, L., Yu, J., Solla, S. A., Shepherd, G. M.  
2008; 11 (3): 360-366