[1] Bock, D. D., Lee, W. C., Kerlin, A. M., Andermann, M. L., Hood, G., Wetzel, A. W., *et al.* (2011) Network anatomy and in vivo physiology of visual cortical neurons. Nature 471:177–182.

[2] Bumbarger DJ, Riebesell M, Rödelsperger C, Sommer RJ. (2013) System-wide Rewiring Underlies Behavioral Differences in Predatory and Bacterial-Feeding Nematodes. Cell. 152(1–2):109-119. https://doi.org/10.1016/ j.cell.2012.12.013.

[3] Dowell, W. C. T. (1959). Unobstructed mounting of serial section. *J. Ultrastruct. Res.,* 28,634.

[4] Gur M, Purple RL, Whitehead R. (1972) Ultrastructure within the Lateral Plexus of the *Limulus* Eye.  *J. Gen. Phys.* 1972;59(3):285-304.

[5] Hall DH & and Russella RL. (1991) The Posterior Nervous System of the Nematode Caenorhabditis elegans: Serial Reconstruction of Identified Neurons and Complete Pattern of Synaptic Interactions. J Neurosci, 11(1):1-22.

[6] Hamos JE, Van Horn SC, Raczkowski D, Sherman SM. (1987) Synaptic circuits involving an individual retinogeniculate axon in the cat. J Comp Neurol, 15;260(3):481.

[7] Harris KM, et al. (2006) Uniform serial sectioning for transmission electron microscopy. J Neurosci, 26:12101– 12103.

[8] Hoffpauir, B. K., Pope, B. & Spirou, G. (2007) Serial sectioning and electron microscopy of large tissue volumes for 3D analysis and reconstruction: a case study of the calyx of Held. *Nat. Protoc.* **2,** 9–22.

[9] Hua Y, Laserstein P, Helmstaedter M. (2015) Large-volume en-bloc staining for electron microscopy-based connectomics. Nat Commun, 6:7923. doi: 10.1038/ncomms8923.

[10] Kuwajima M, Mendenhall JM, Lindsey LF, Harris KM (2013) Automated Transmission-Mode Scanning Electron Microscopy (tSEM) for Large Volume Analysis at Nanoscale Resolution. PLoS ONE8(3): e59573. https://doi.org/10.1371/ journal.pone.0059573

[11] Lee W-C A, Bonin V *et al.* (2016) Anatomy and function of an excitatory network in the visual cortex. *Nature* 532**:**370–374.

[12] Lee K, & Zung J, Li P, Jain V, Seung H. (2017). Superhuman Accuracy on the SNEMI3D Connectomics Challenge. arXiv: 1706.00120.

[13] Ryan, K., Lu, Z., and Meinertzhagen, I.A. (2016). The CNS connectome of a tadpole larva of Ciona intestinalis (L.) highlights sidedness in the brain of a chordate sibling. eLife 5, e16962.

[14] Spacek J & Lieberman AR. (1974) Ultrastructure and three-dimensional organization of synaptic glomeruli in rat somatosensory thalamus. J Anat., 117(Pt 3): 487–516.

[15] Shepherd GM, Harris KM. (1998) Three-dimensional structure and composition of CA3-->CA1 axons in rat hippocampal slices: implications for presynaptic connectivity and compartmentalization. J Neurosci,18(20):8300-10.

[16] Takemura, S.Y., Lu, Z., and Meinertzhagen, I.A. (2008). Synaptic circuits of the Drosophila optic lobe: 886 the input terminals to the medulla. J Comp Neurol 509, 493-513.

[17] Takemura, S., Bharioke, A., Lu, Z., Nern, A., Vitaladevuni, S., Rivlin, P. K., Chklovskii, D. B. (2013). A visual motion detection circuit suggested by *Drosophila* connectomics. *Nature*, *500*(7461), 175–181. http://doi.org/10.1038/nature12450