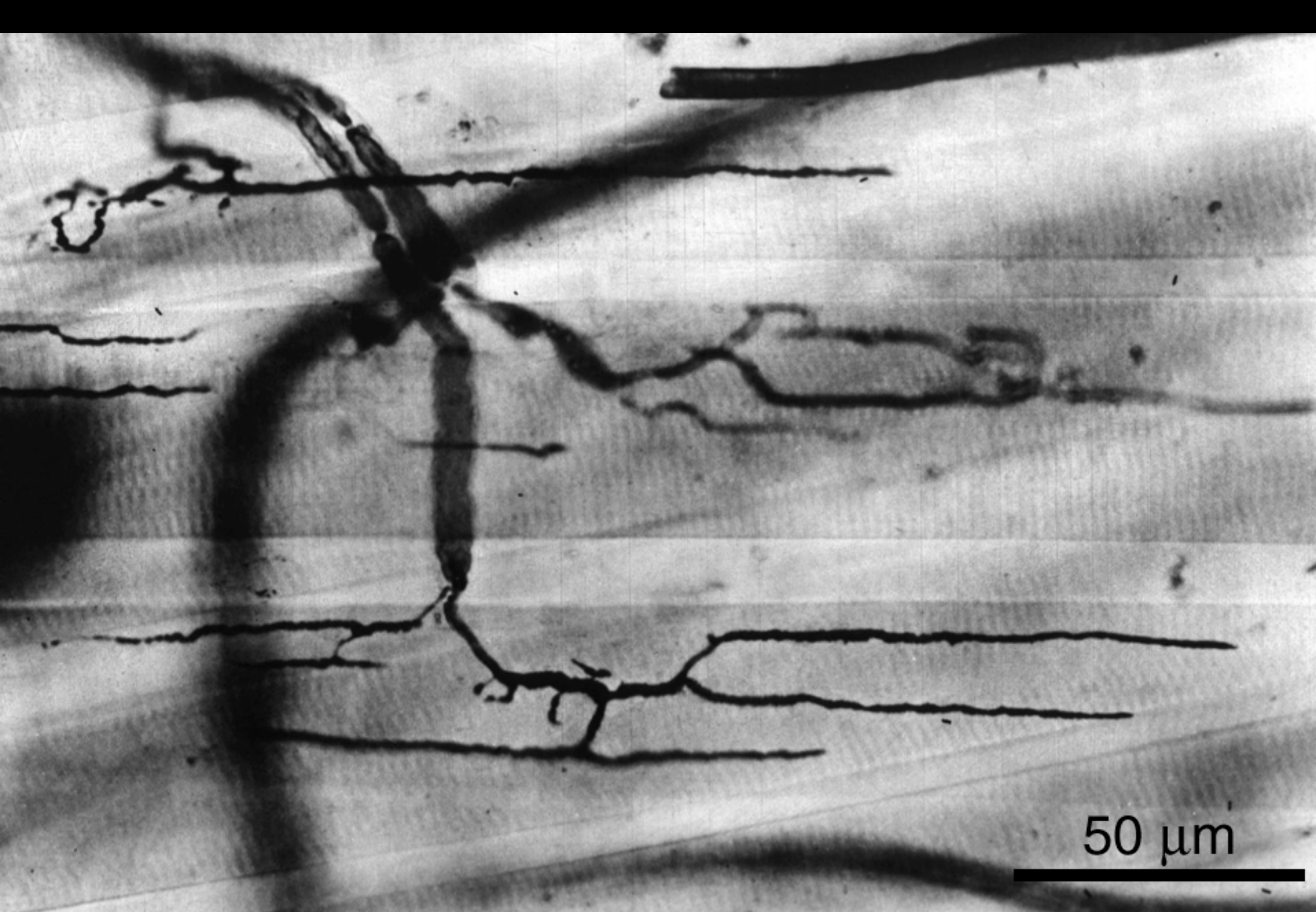


A

A

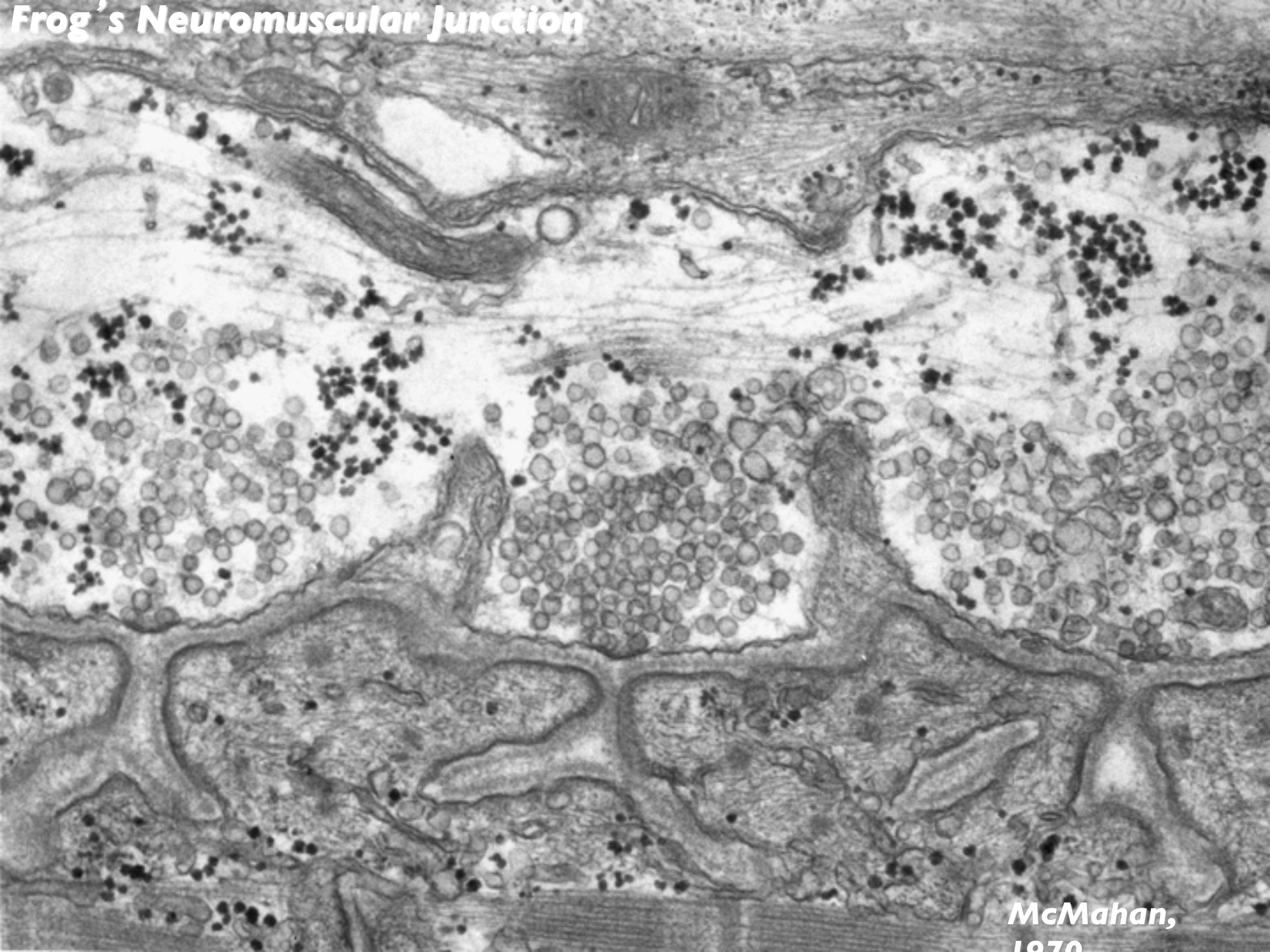




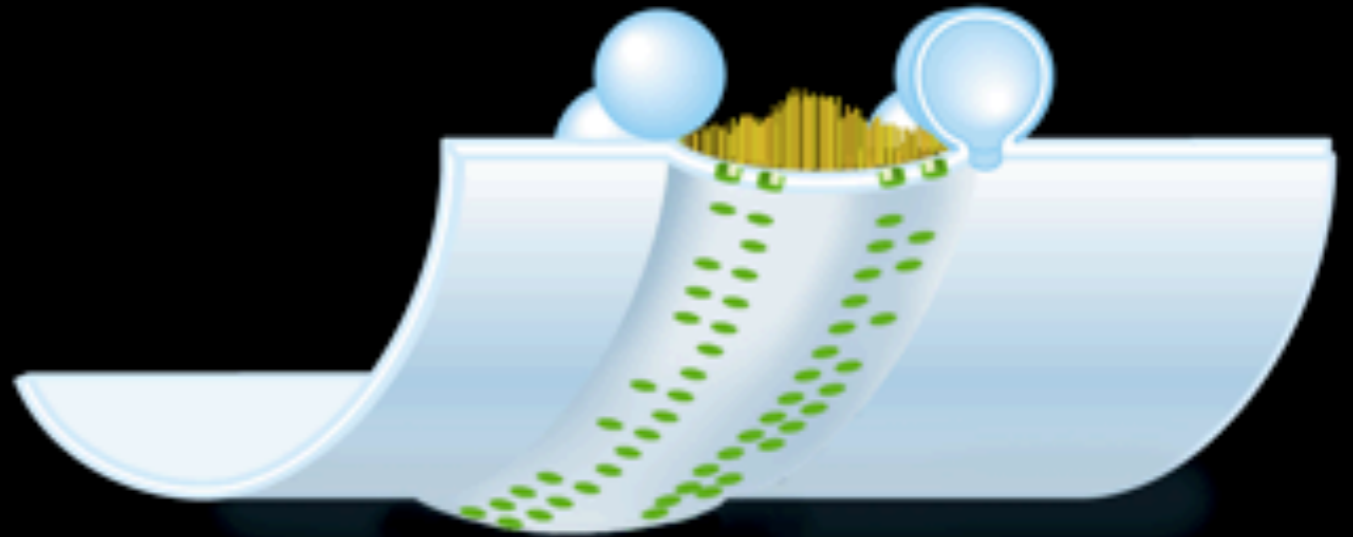
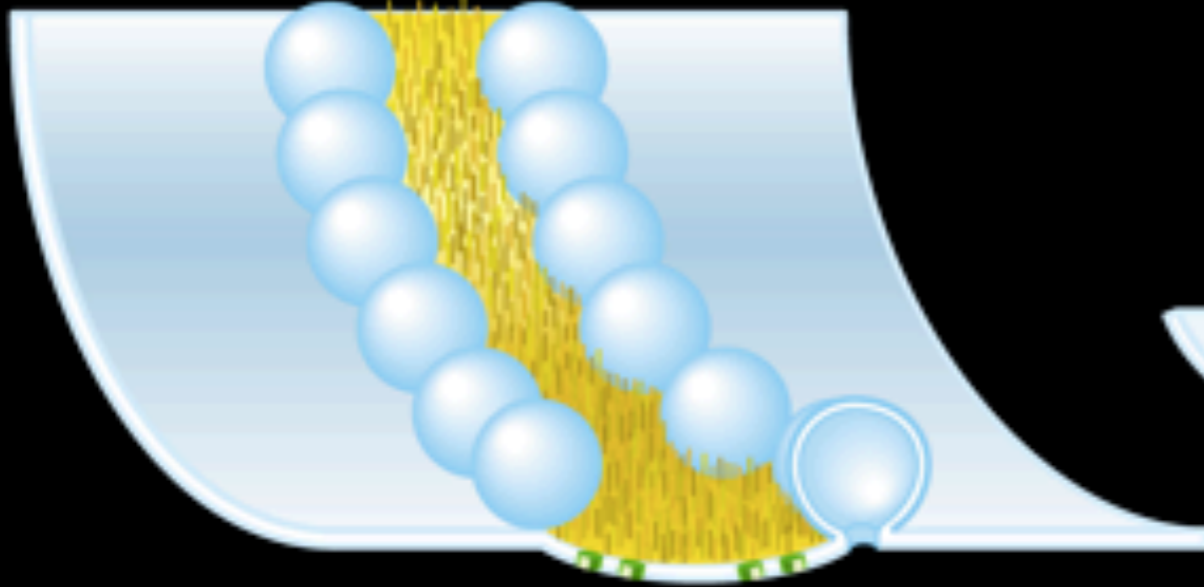
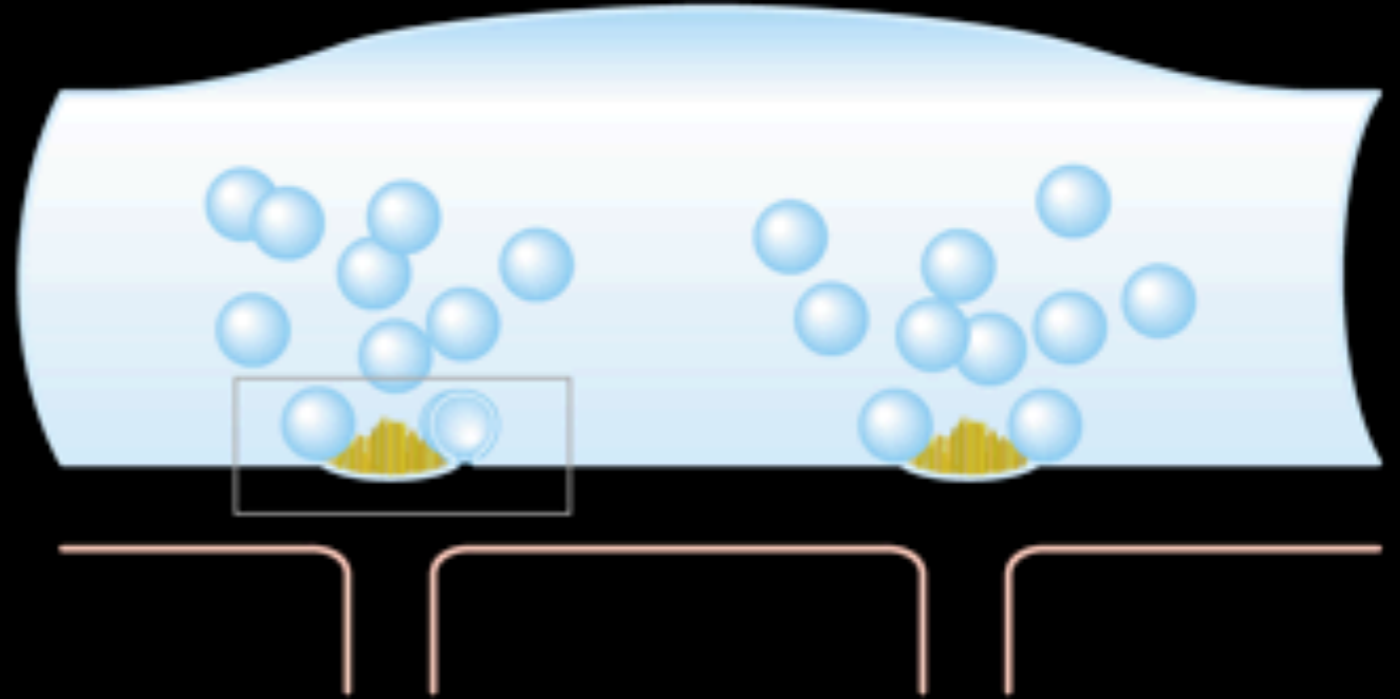
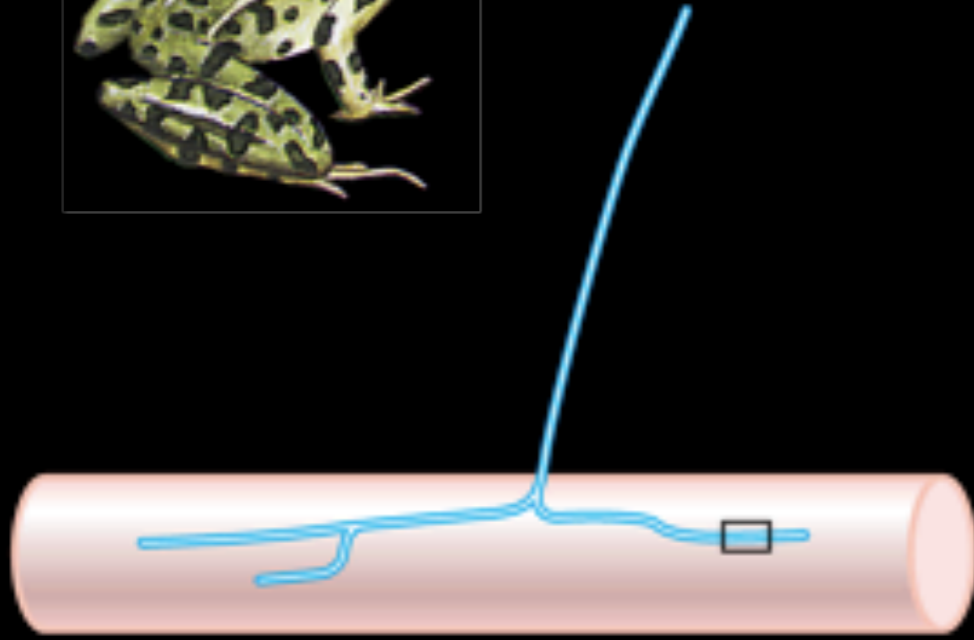
50 μm

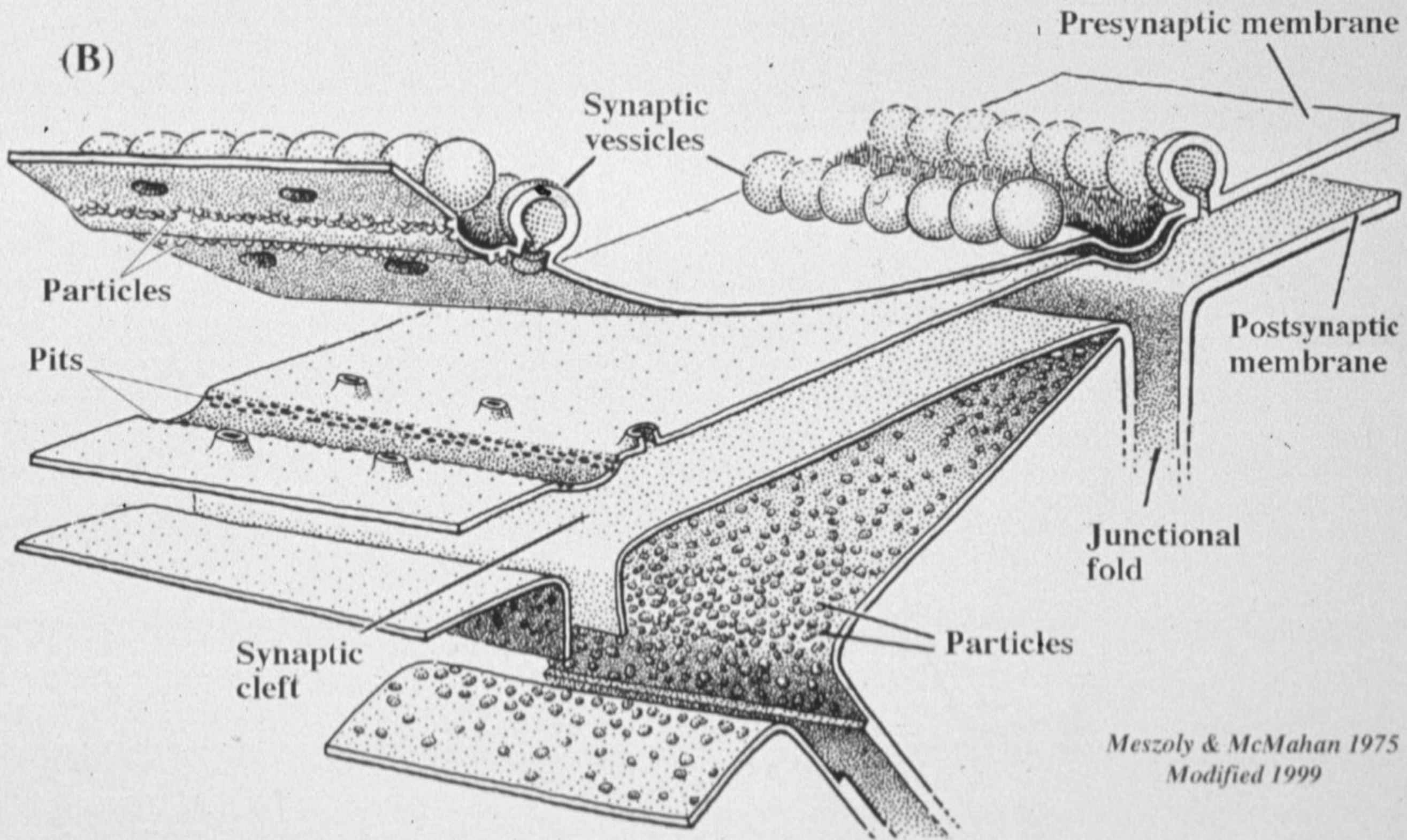
Frog NMJ/ ZIO stain. McMahan, 1972

Frog's Neuromuscular Junction

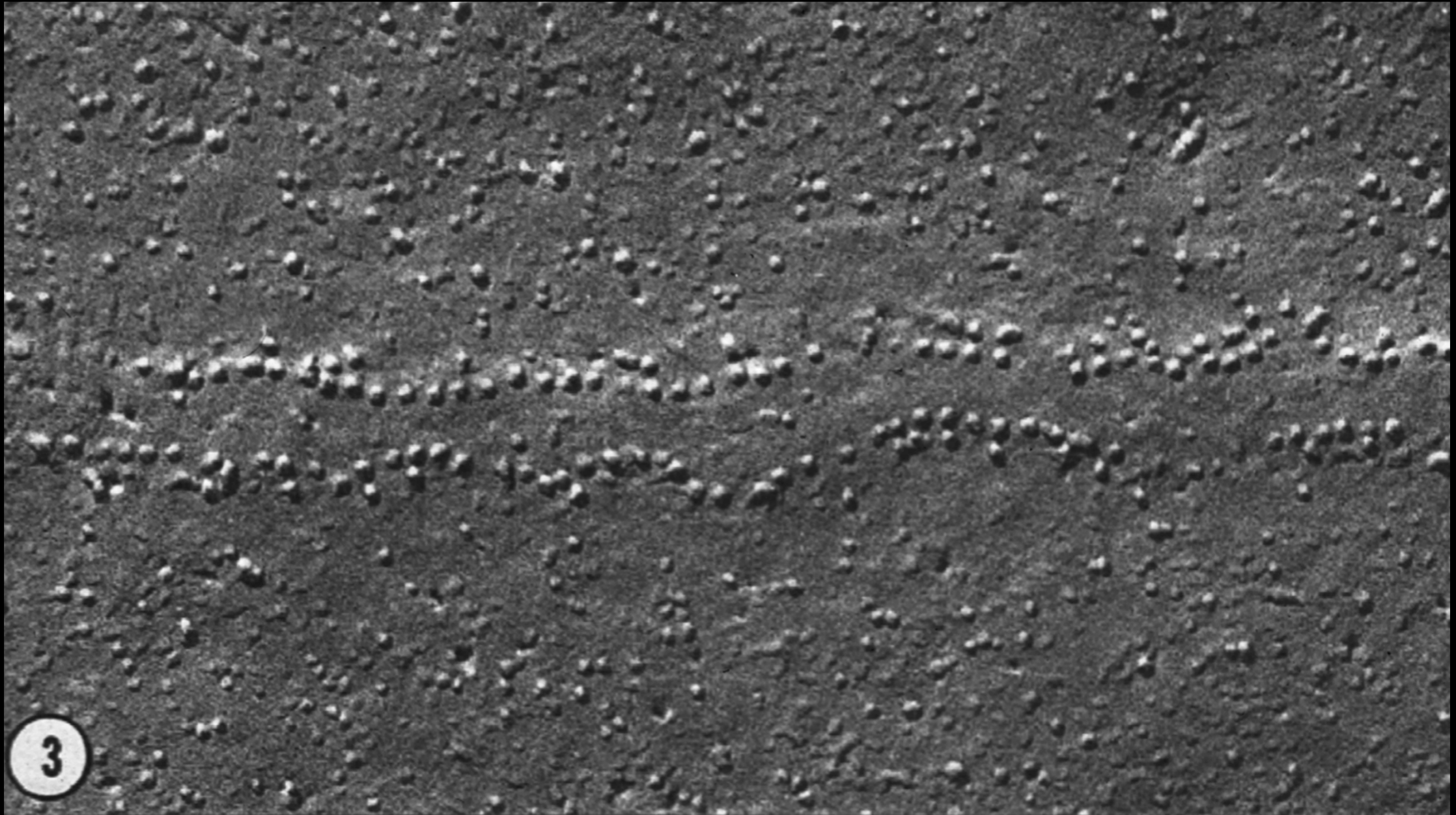


**McMahan,
1970**

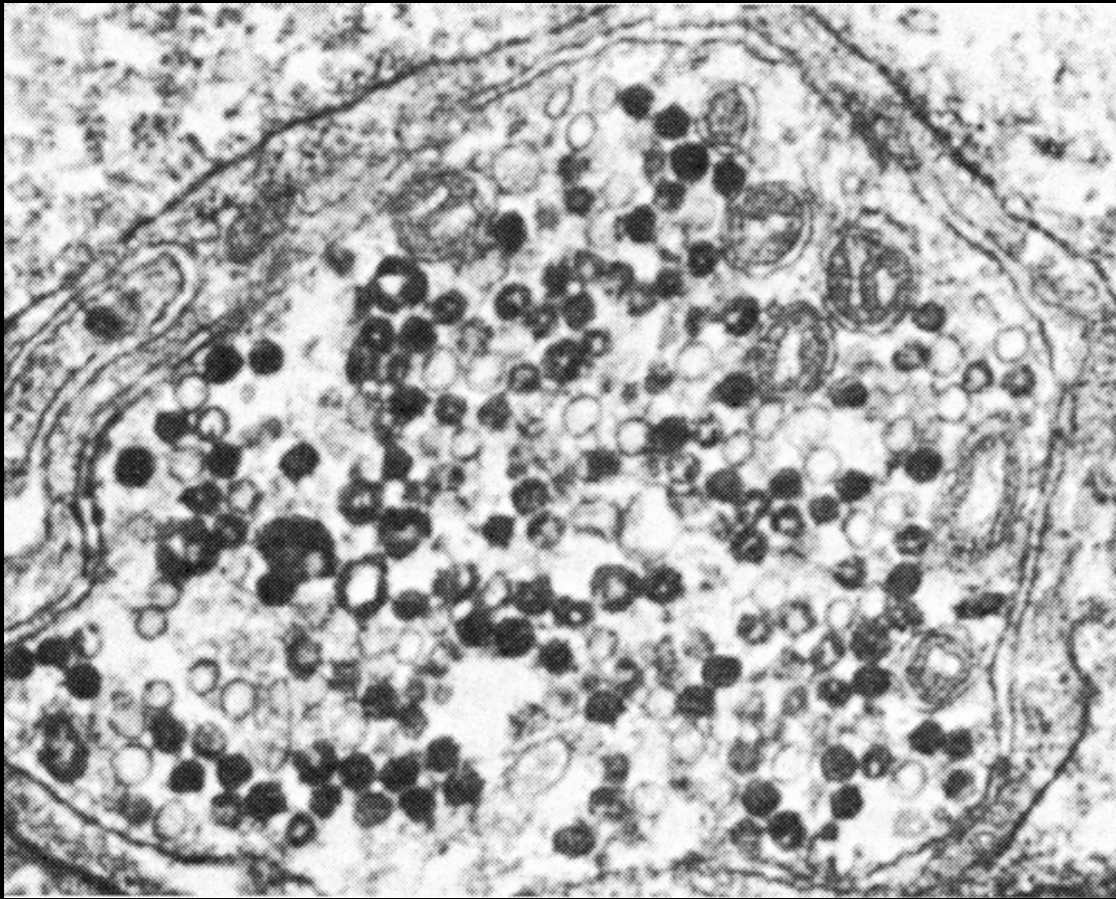




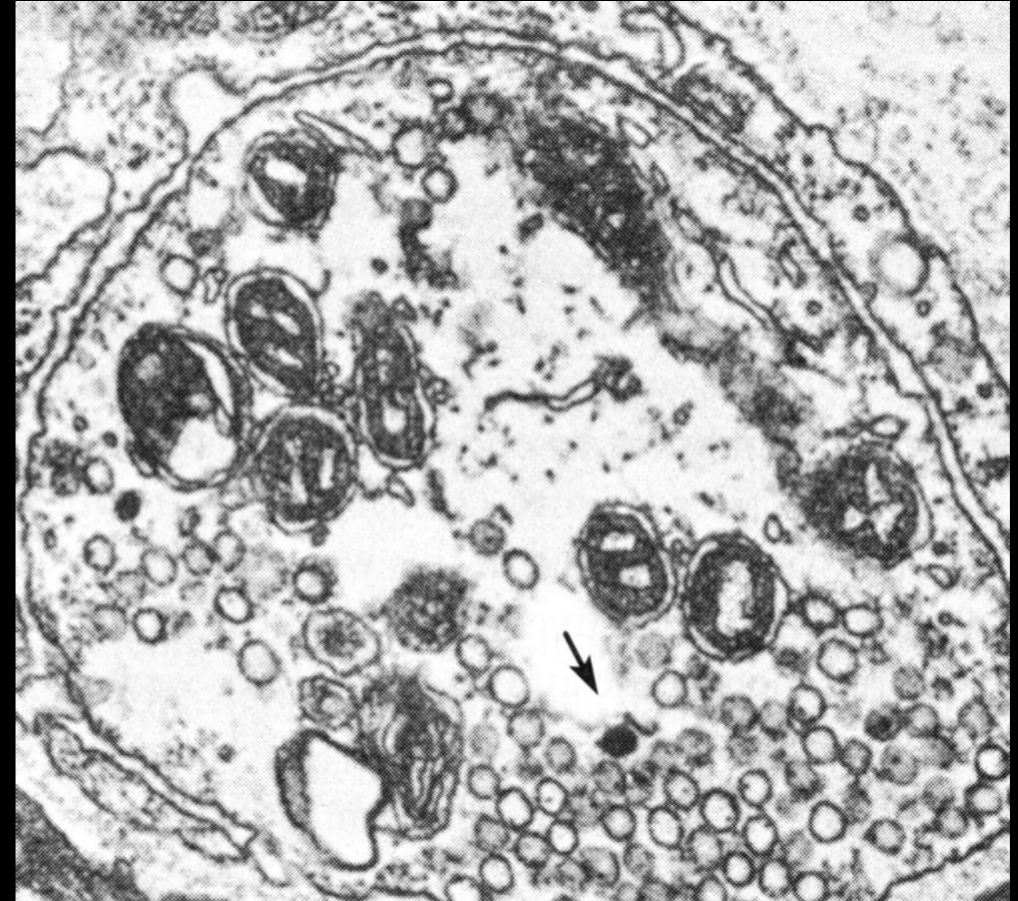
Meszoly & McMahan 1975
Modified 1999



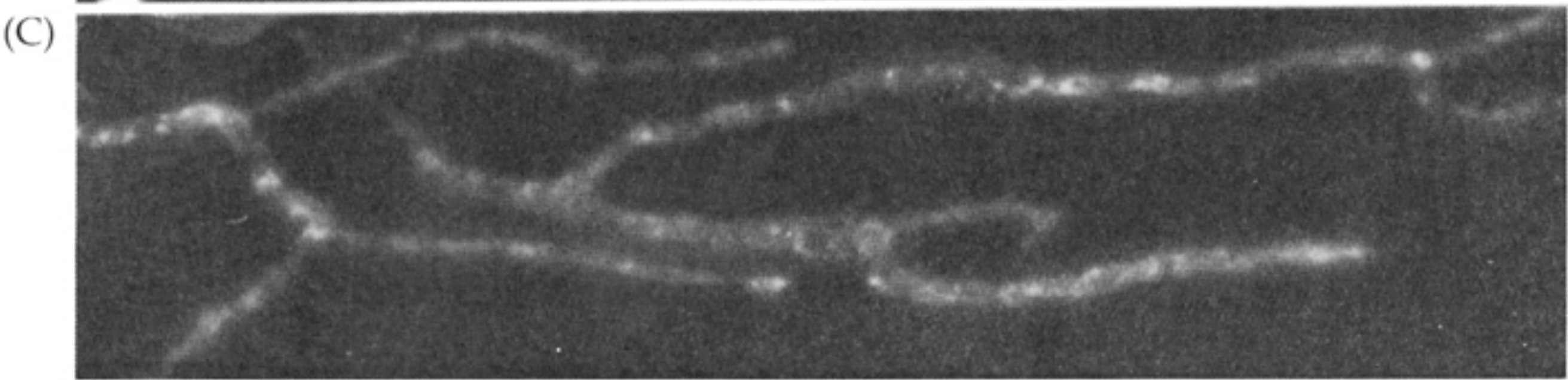
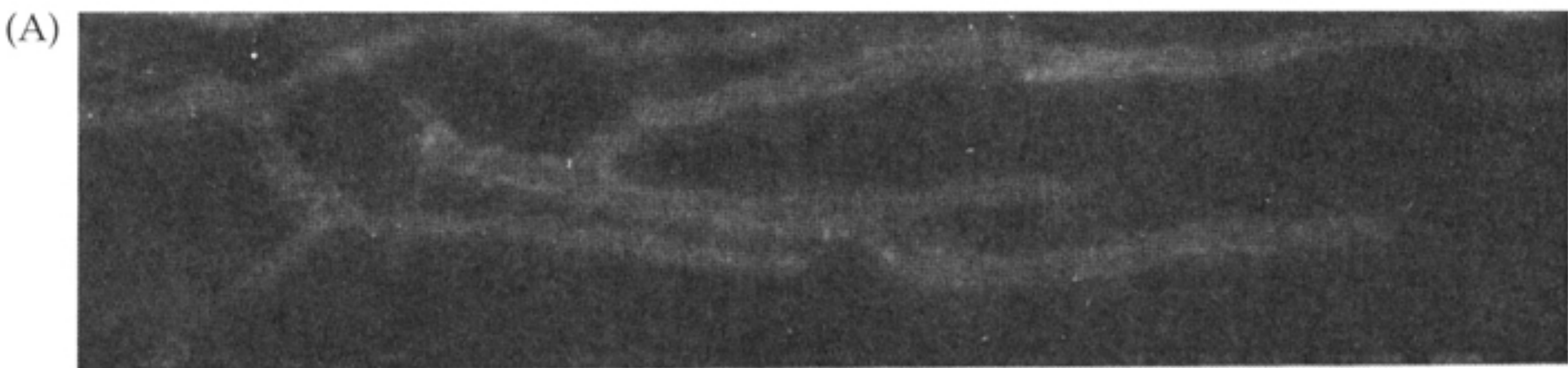
(A)



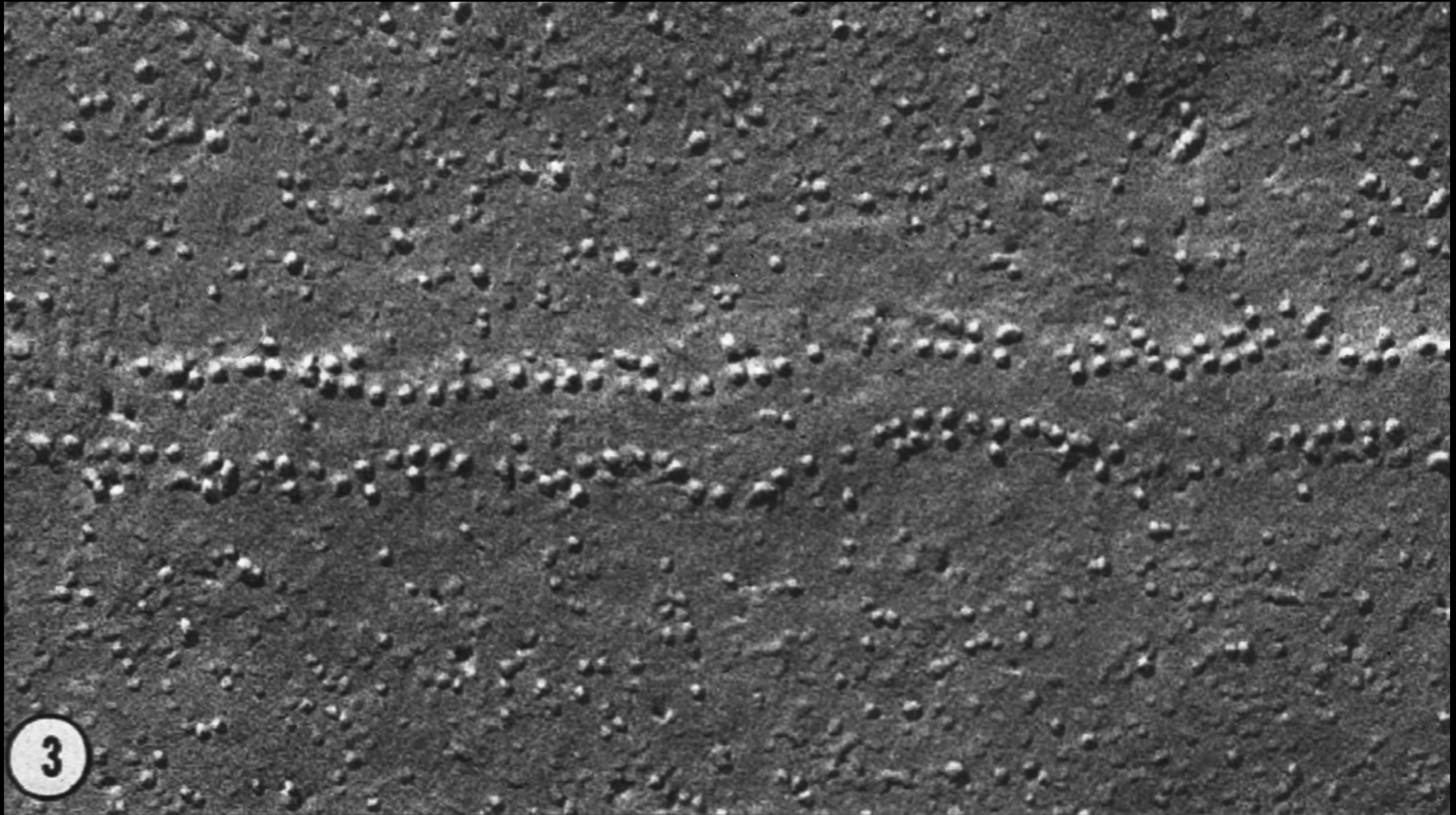
(B)

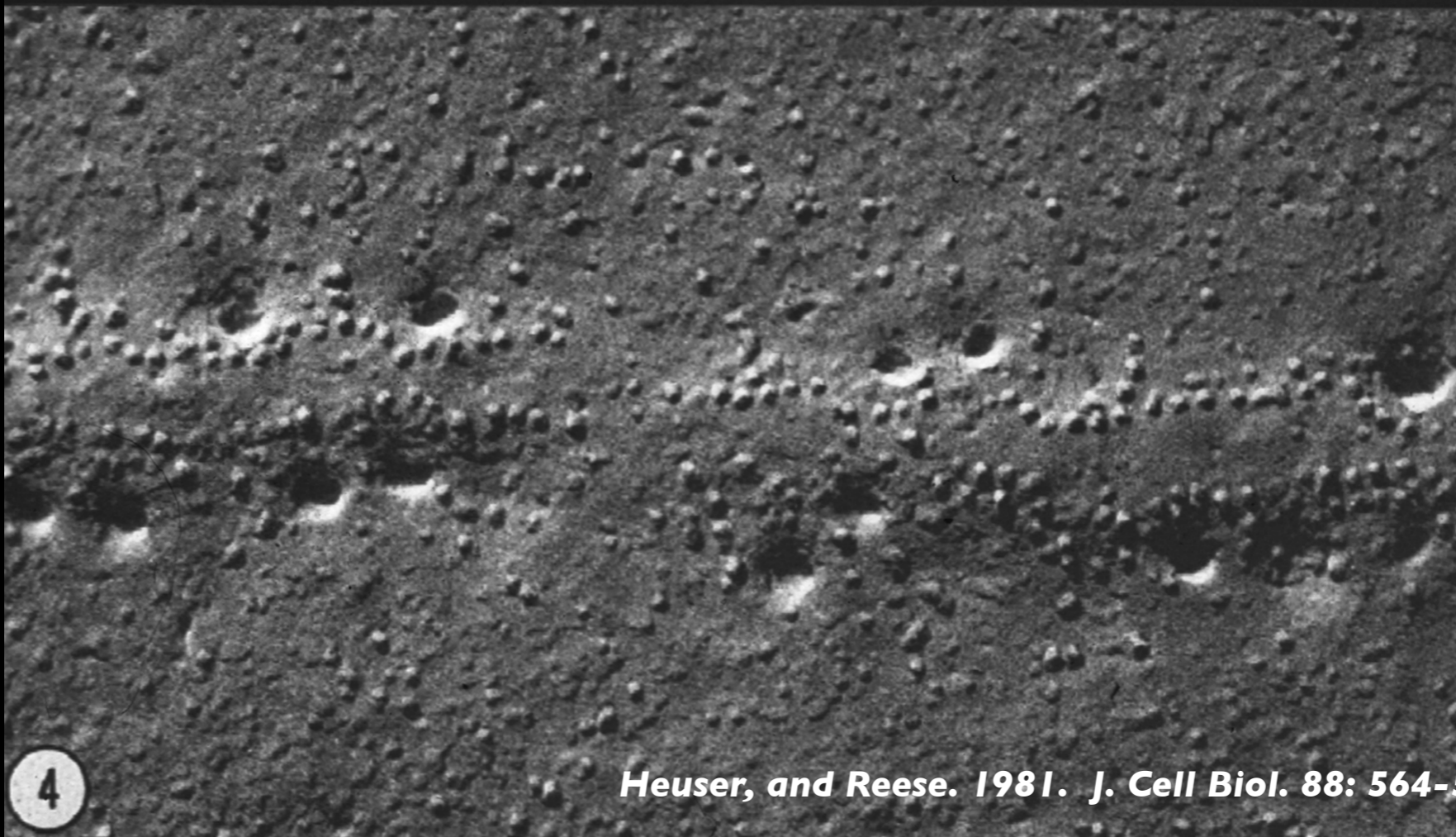
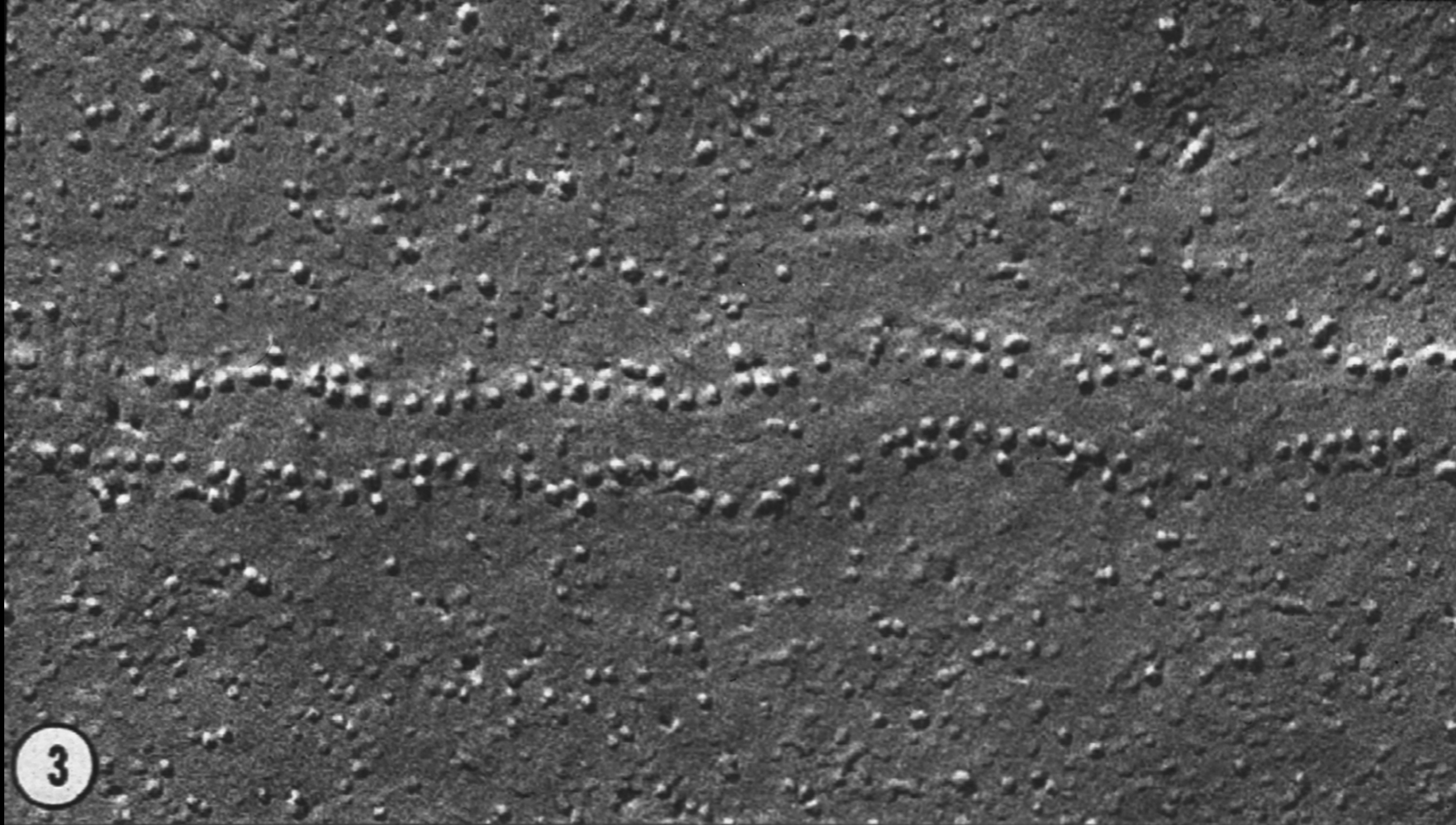


Heuser, J.E. & Reese, T.S. 1973 *J. Cell Biol.* 57:315-344.

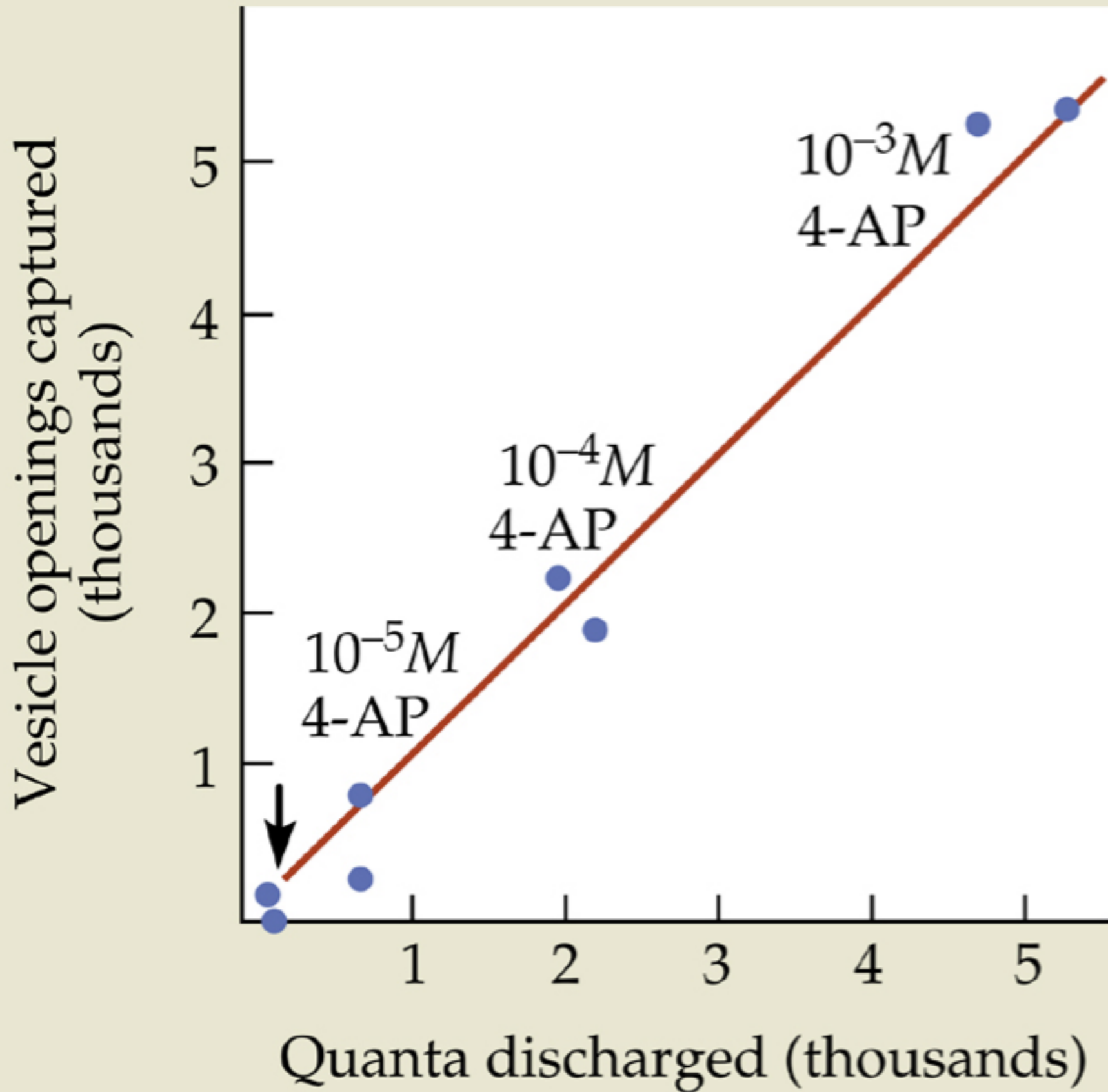


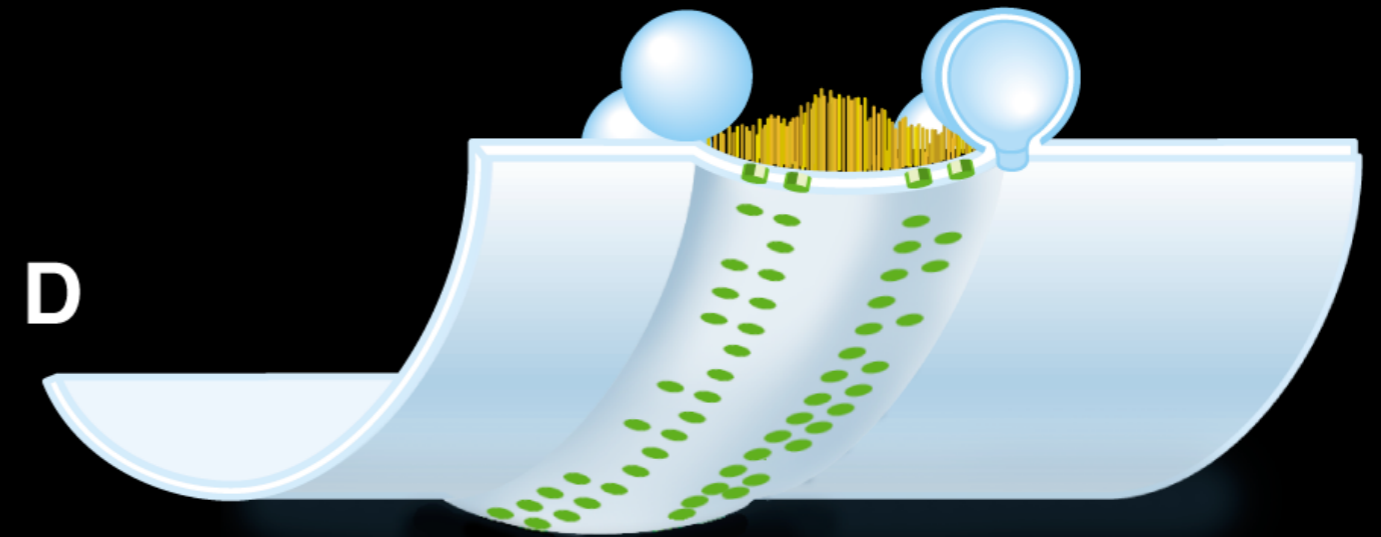
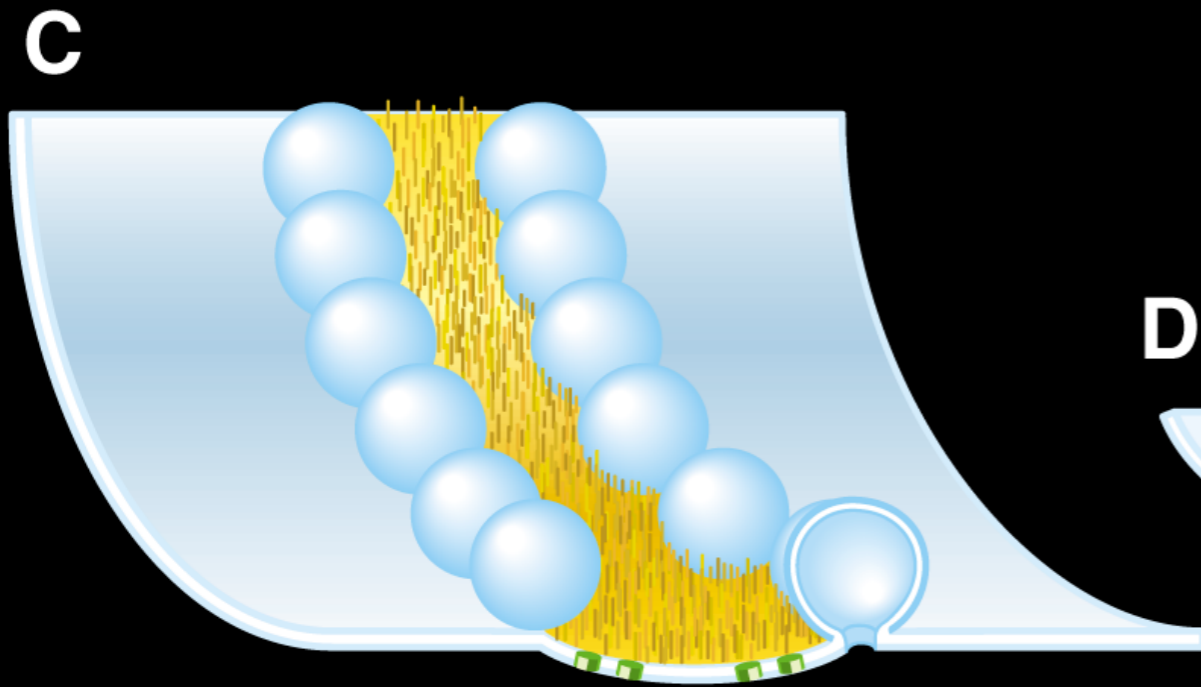
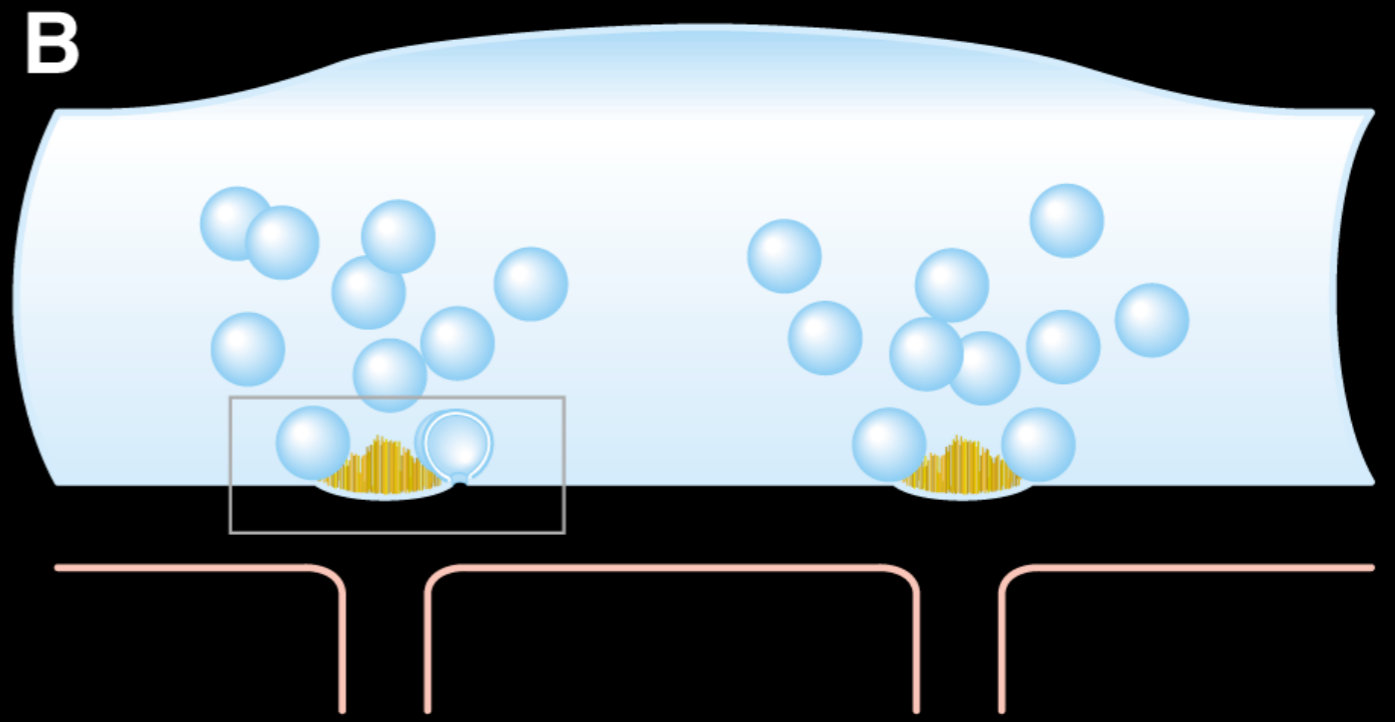
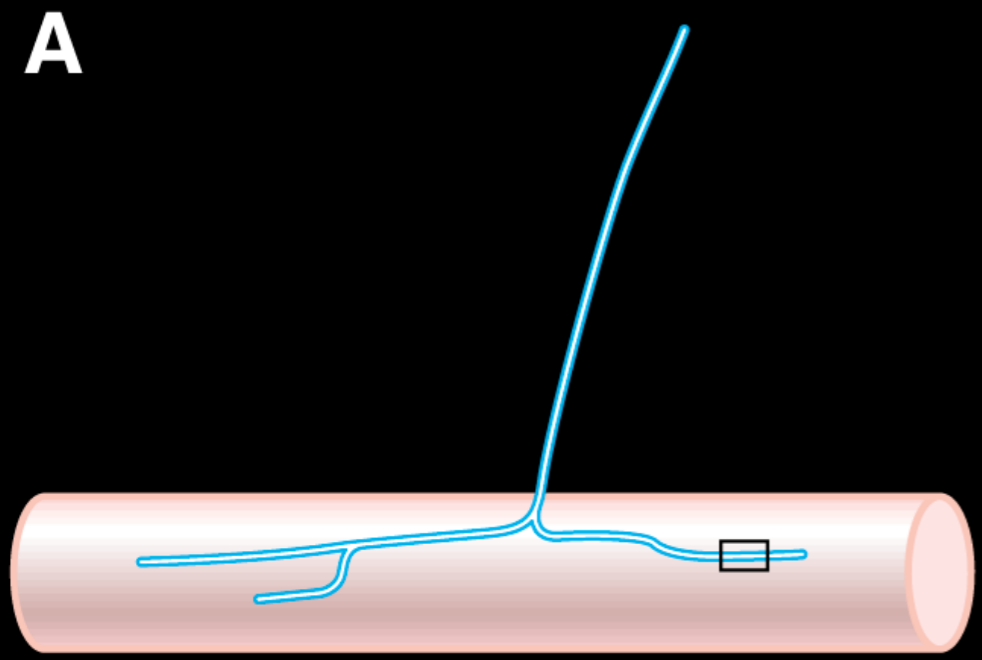
50 μm

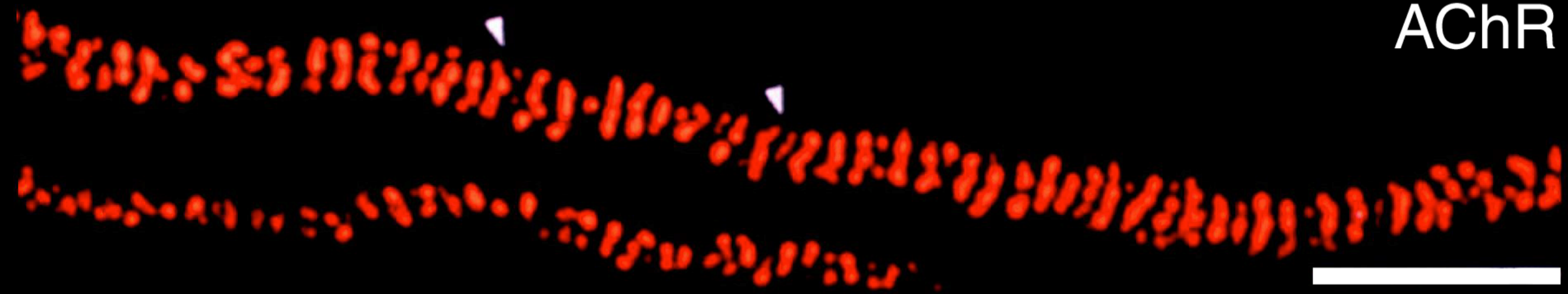




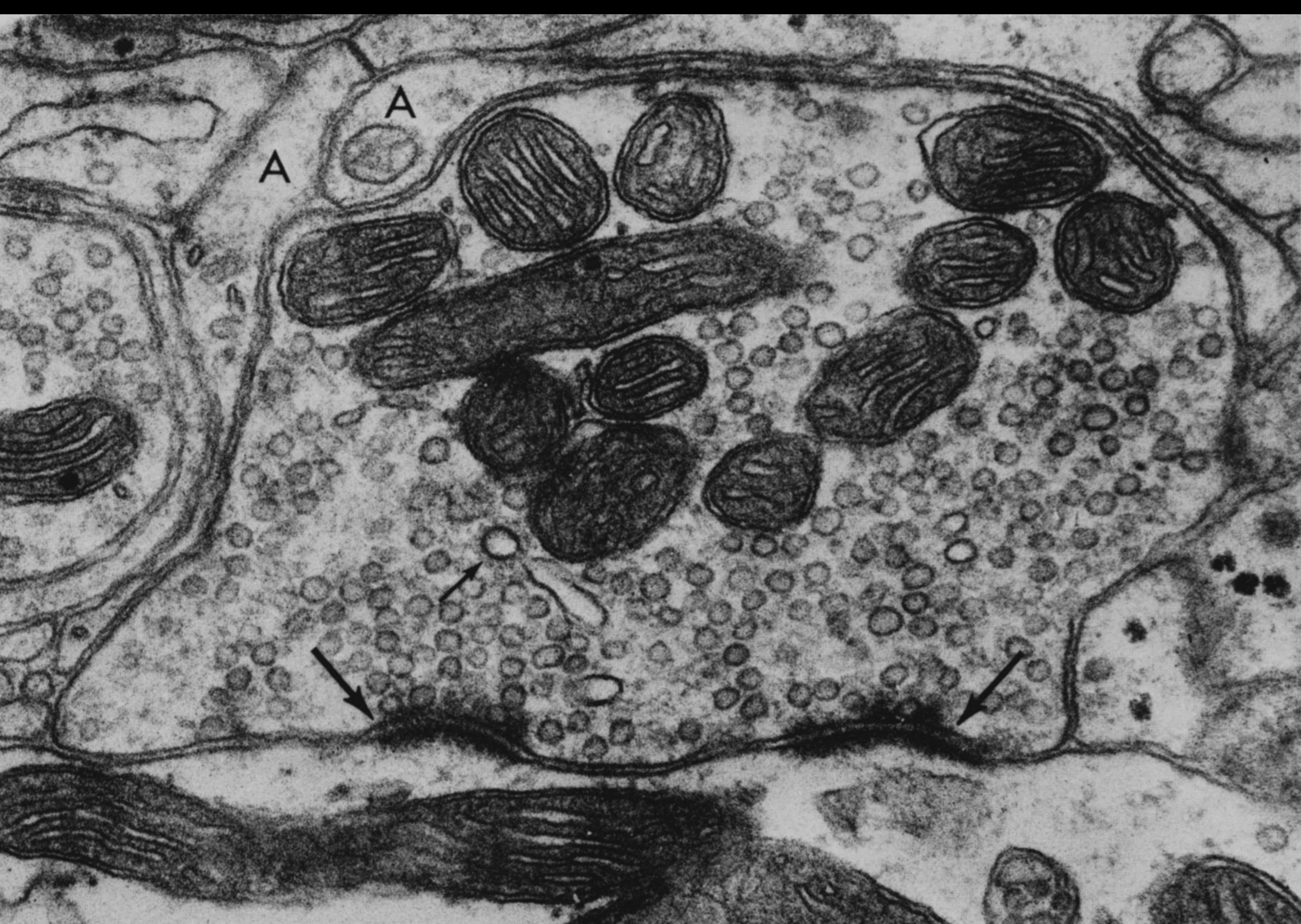
(C)







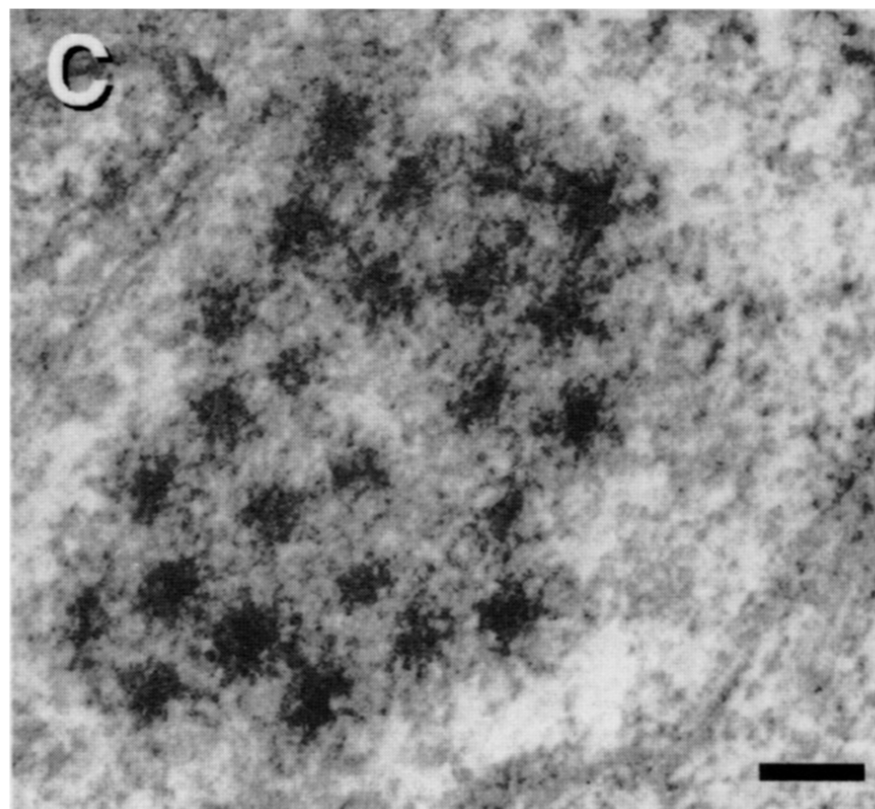
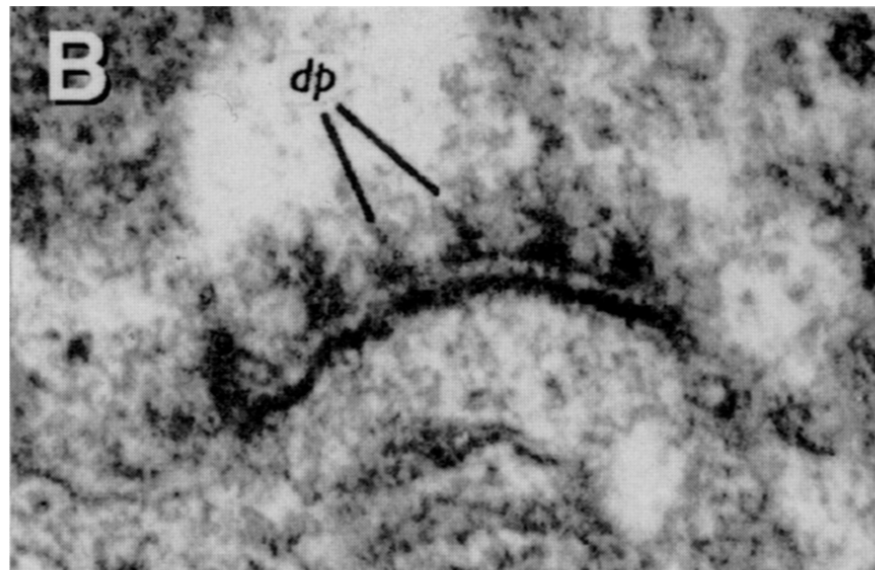
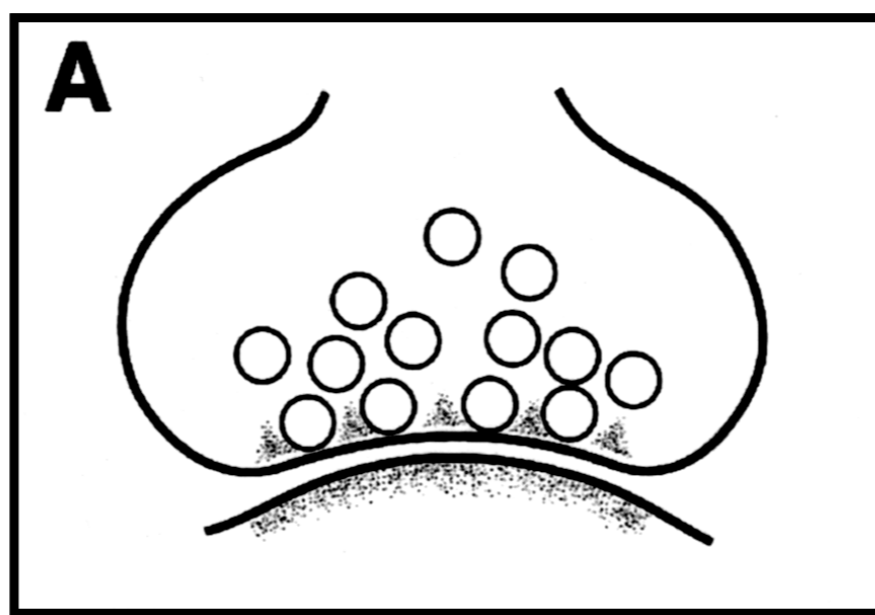
Robitaille, Alder & Charlton. *Neuron* 5, 773-779 (1990).



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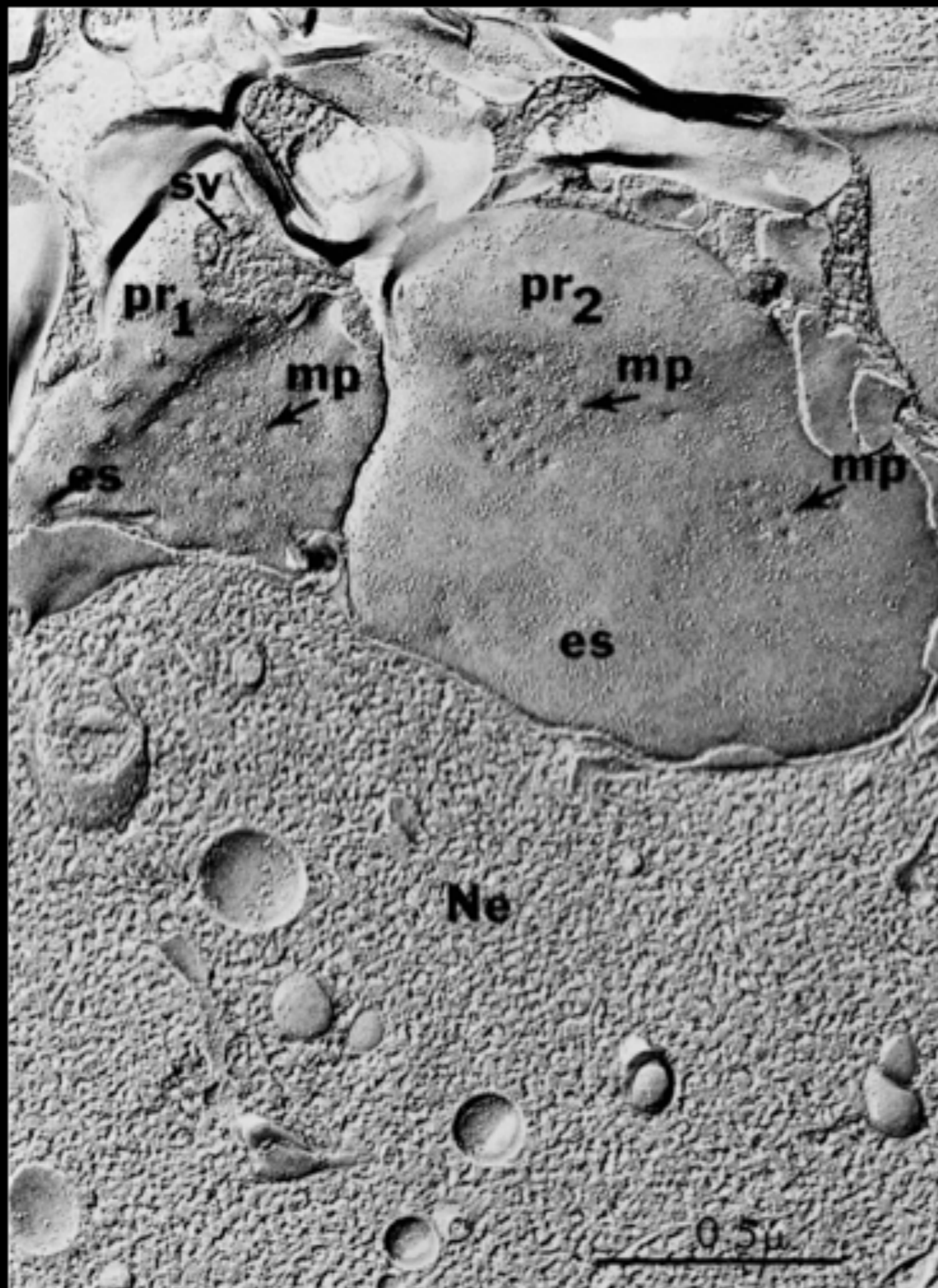
A



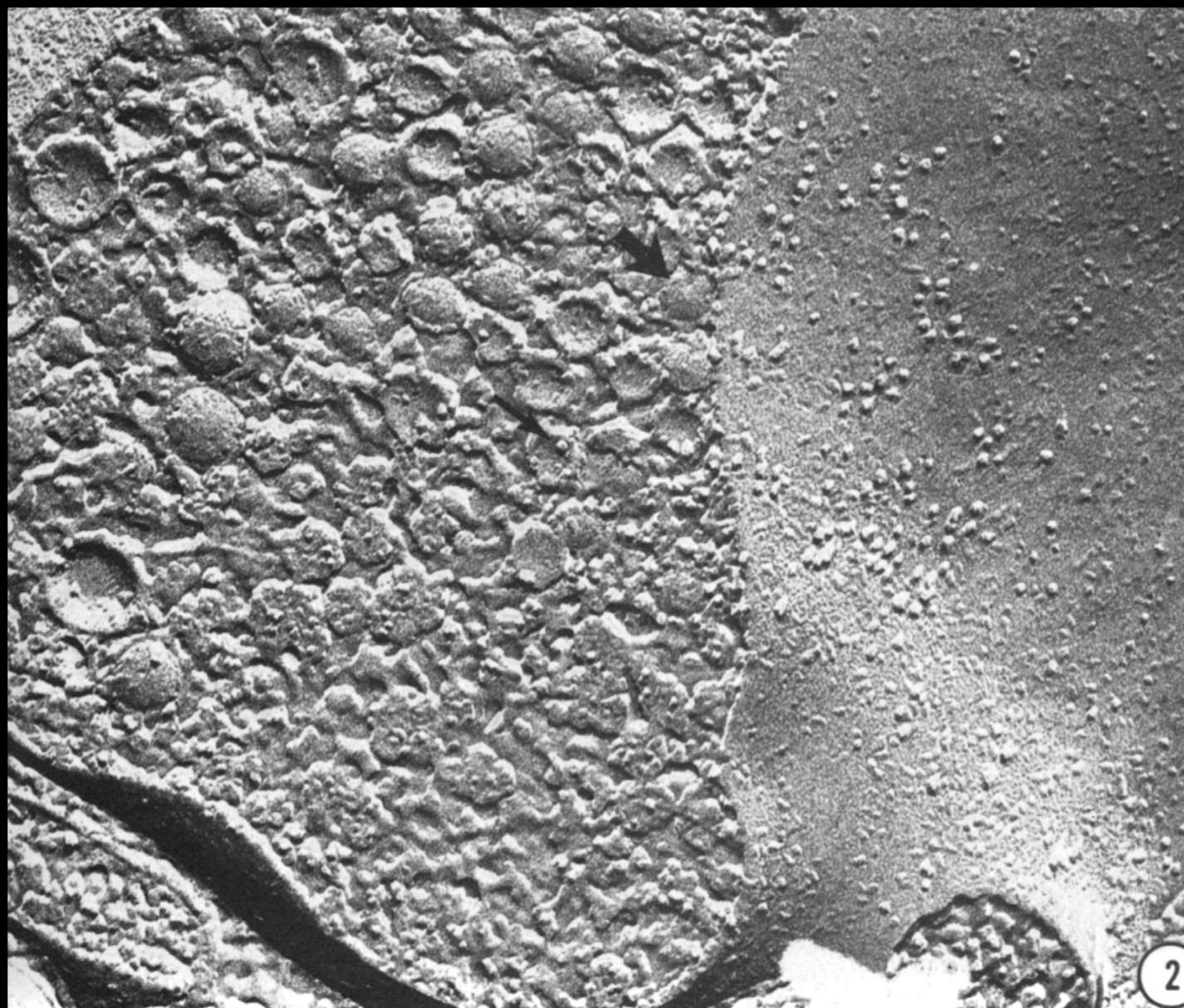
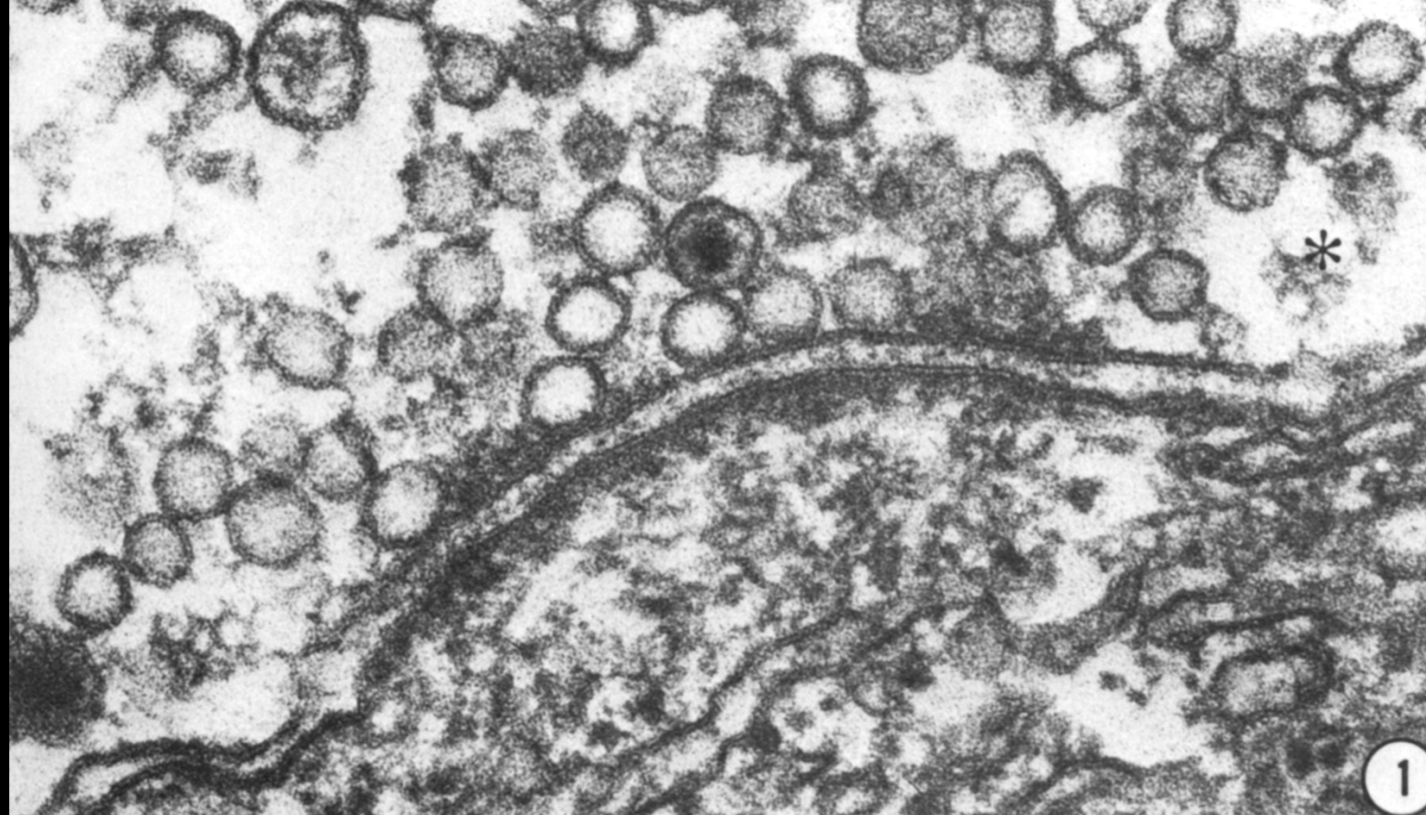


Gray, E. G. 1963 *J. Anat.* 97:101-106.

From: De Camilli P. et al. in *Synapses* (Cowan, Südhof & Stevens, eds., Johns Hopkins Univ. Press/ Baltimore) pp 89-134 (2001).

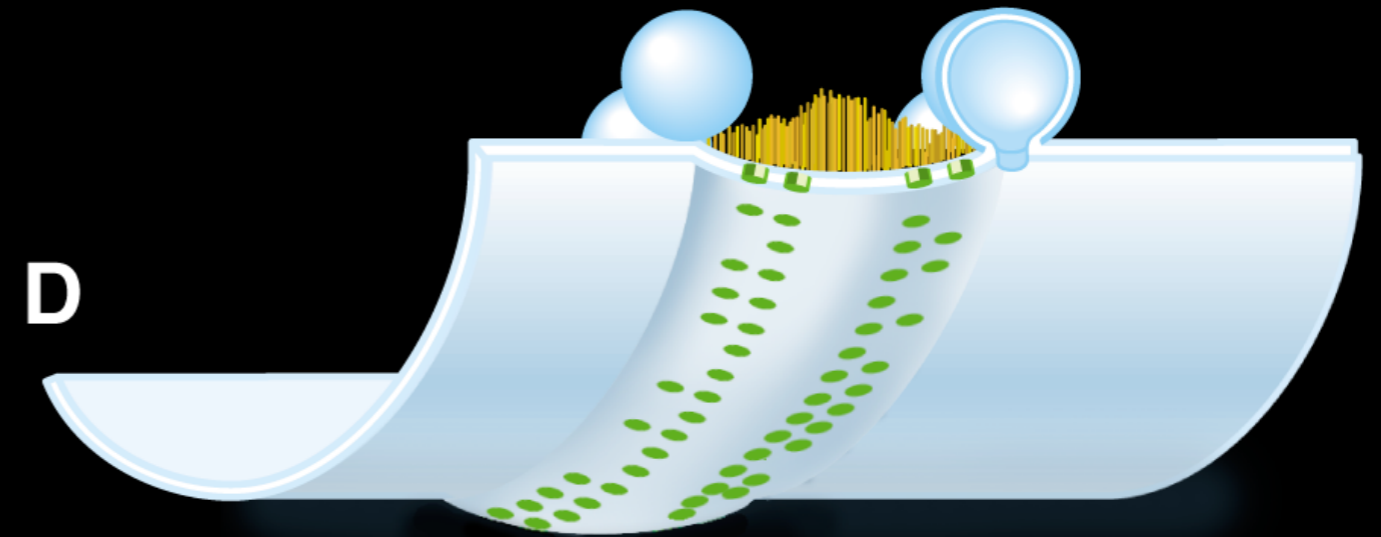
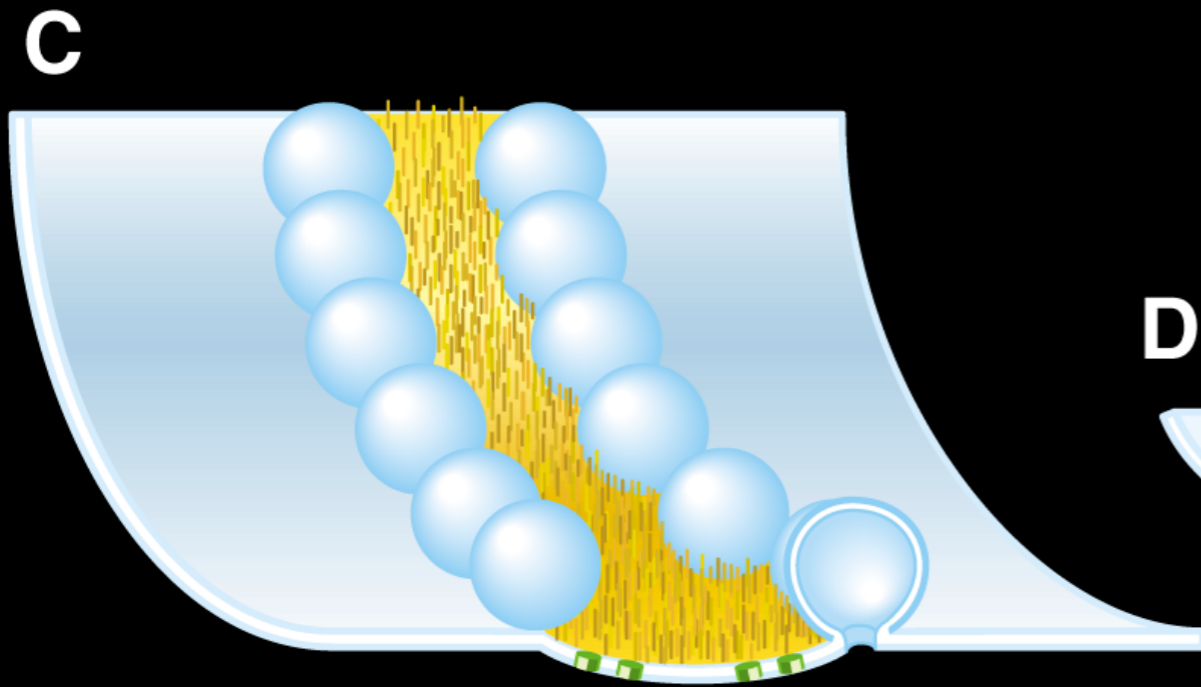
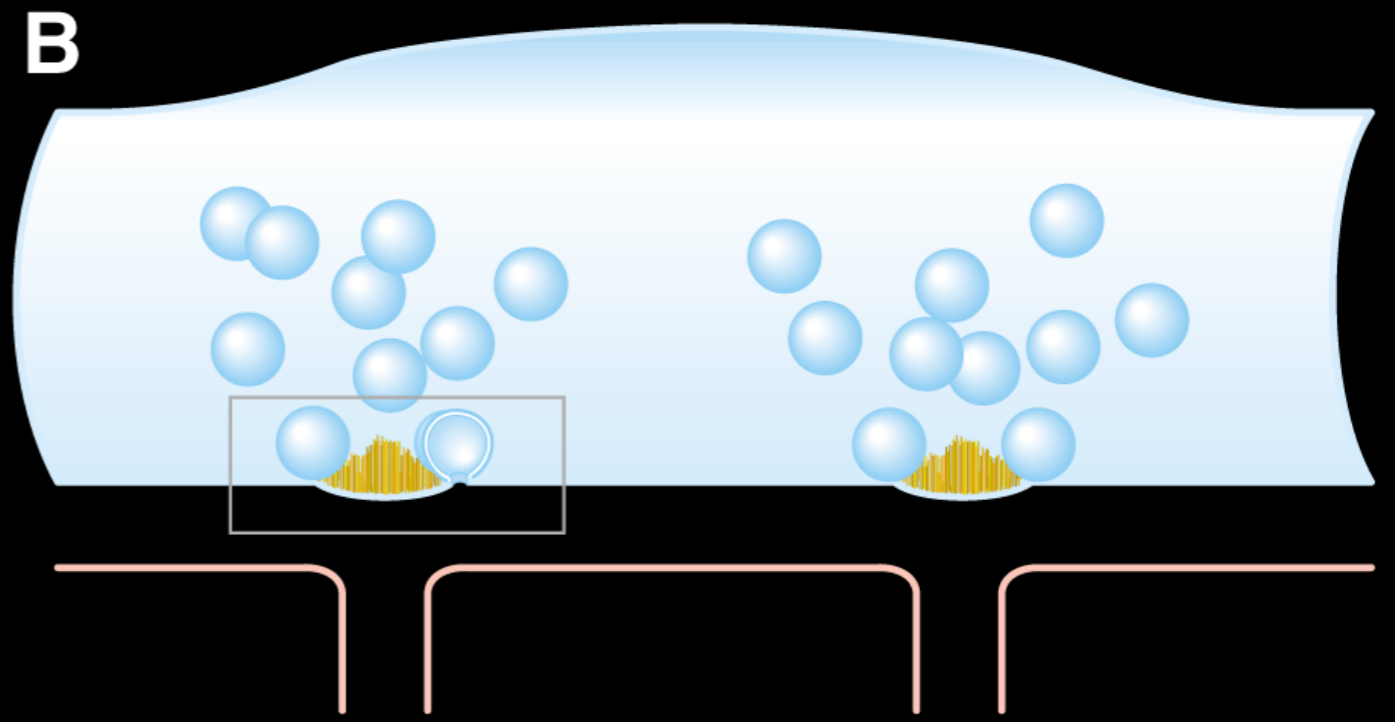
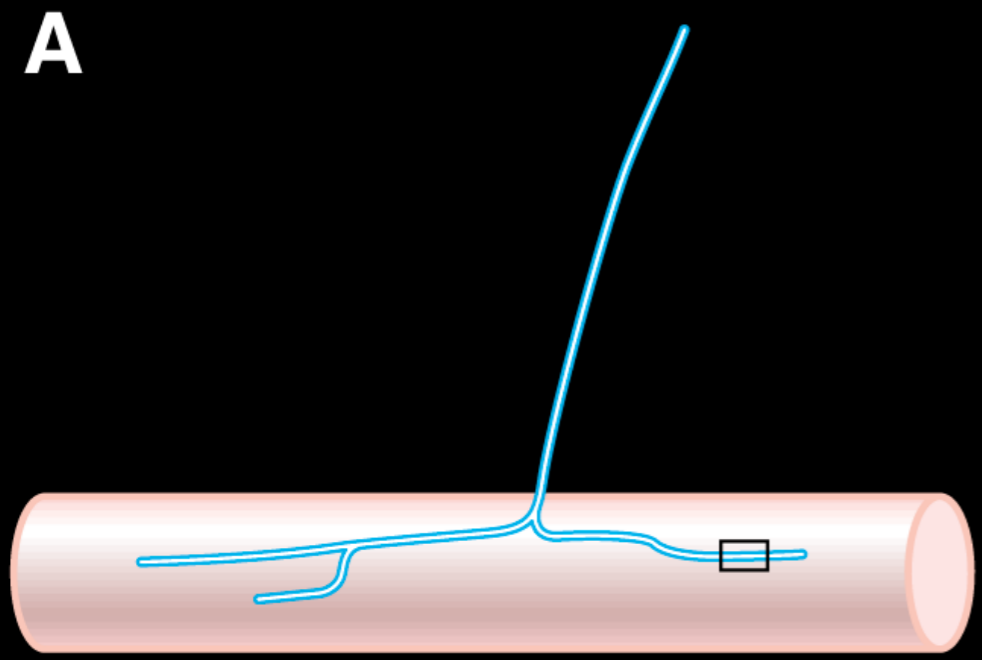


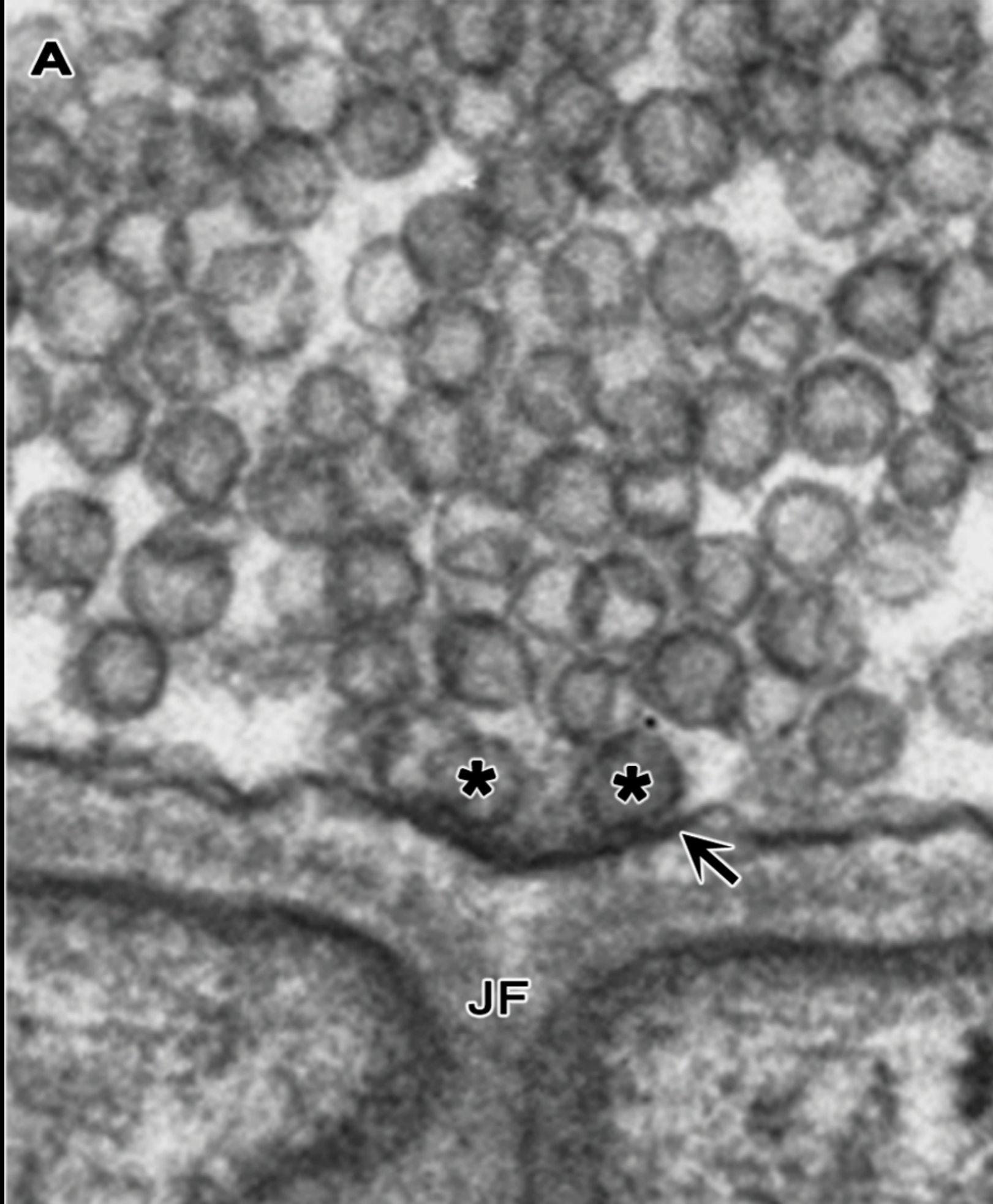
Akert, Pfenninger, Sandri & Moor in *Structure and Function of Synapses* (eds. Pappas & Purpura) Raven Press, New York 1972



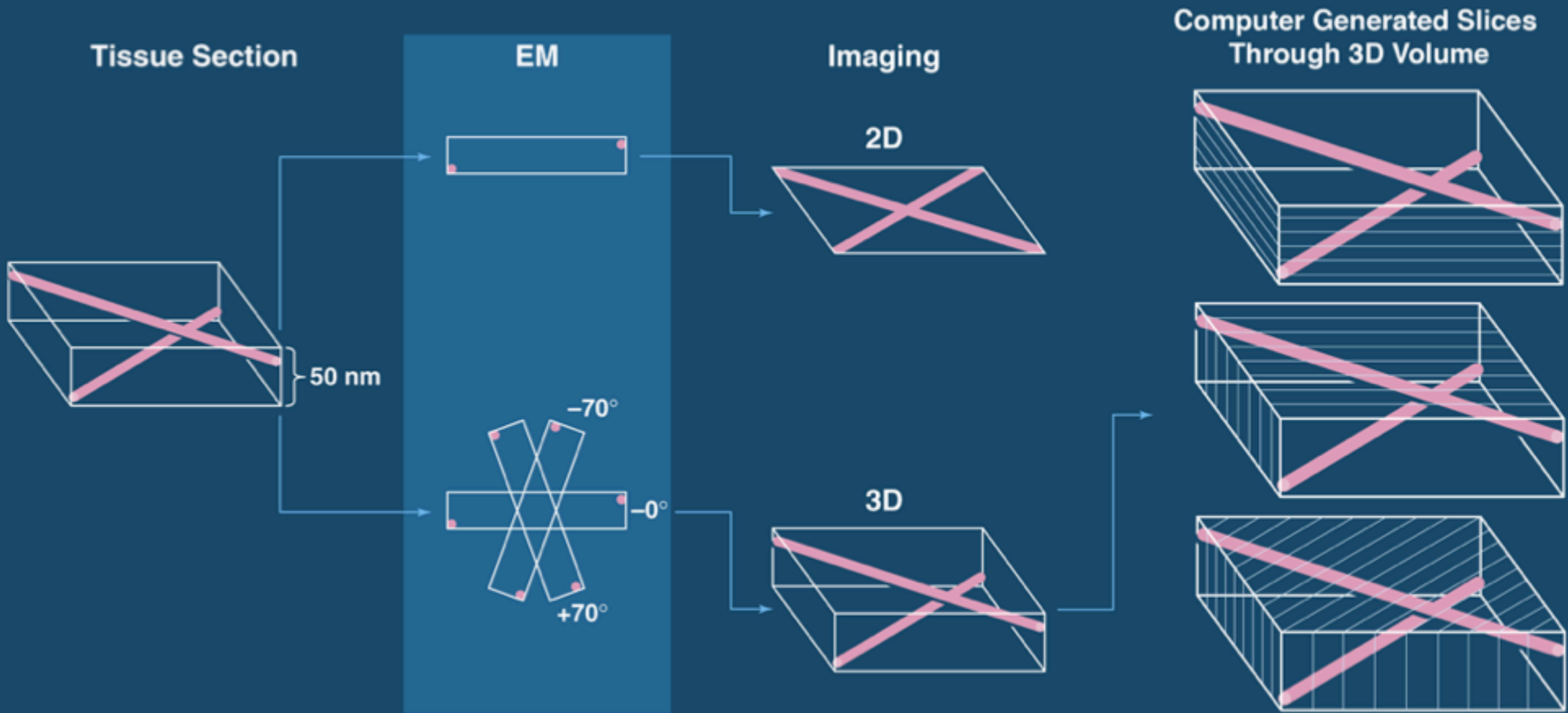
*Dickinson-Nelson A. & Reese TS.
J. Neurosci., 3:42-52 (1983).*

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Szule, Harlow, Jung, De-Miguel, Marshall, McMahan (2012) PLoS ONE 7(3): e33333.



Stanford University
Laboratory of Uel Jackson McMahan



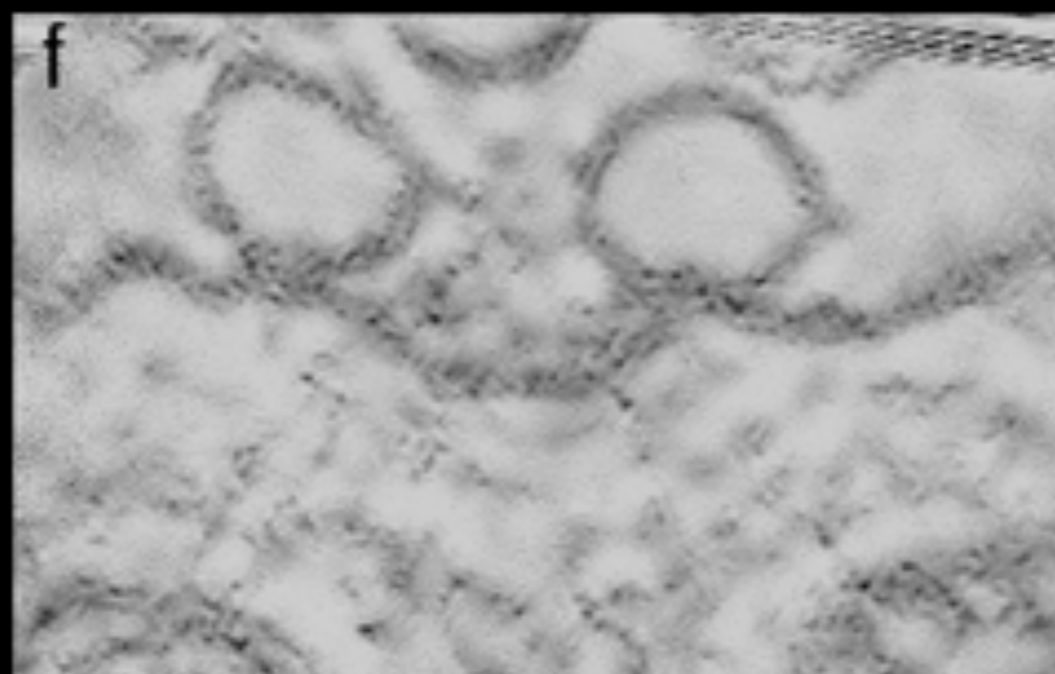
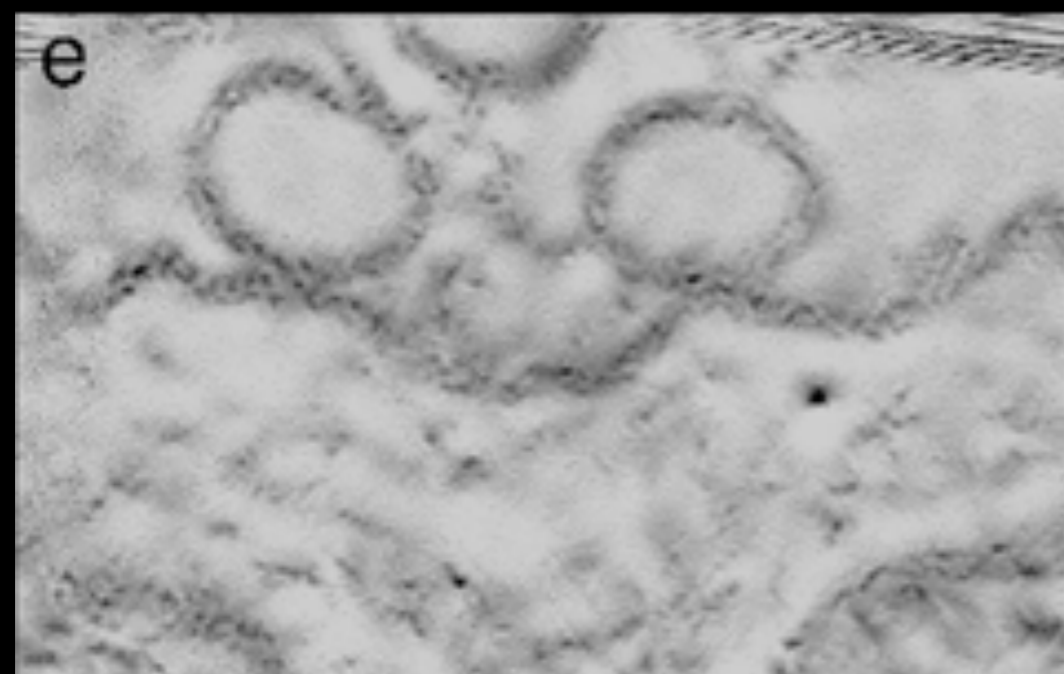
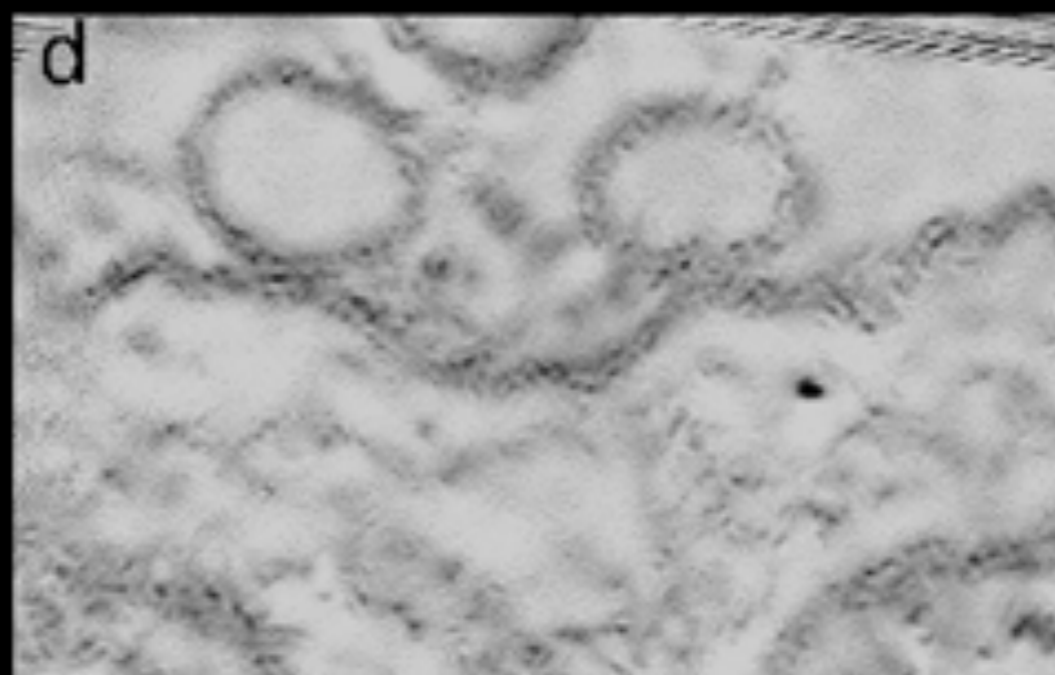
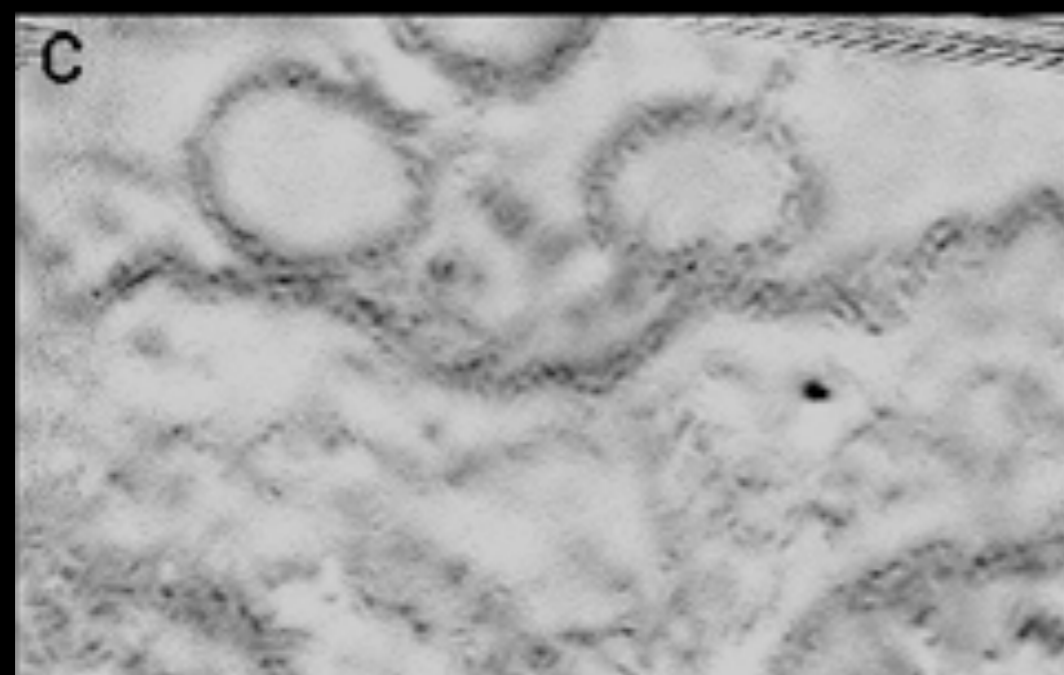
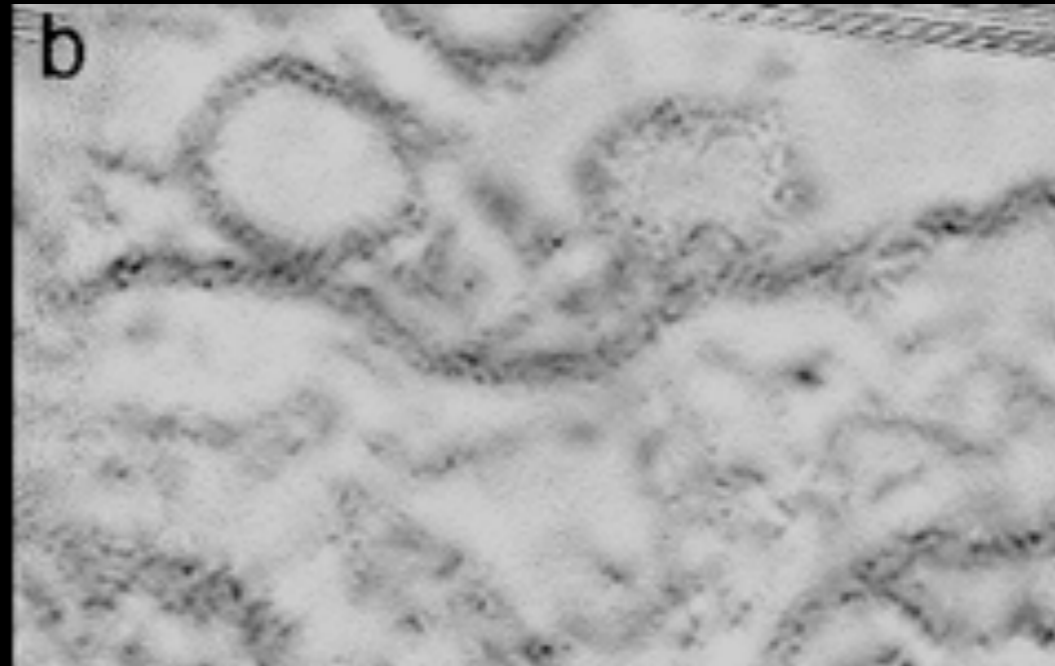
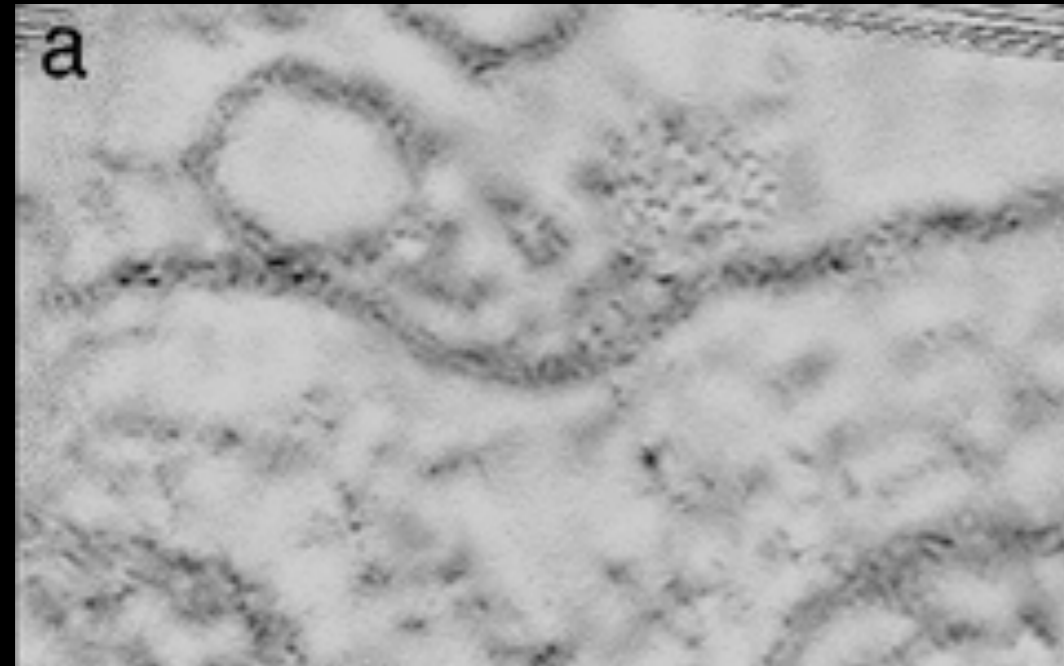
Using EM3D[®]

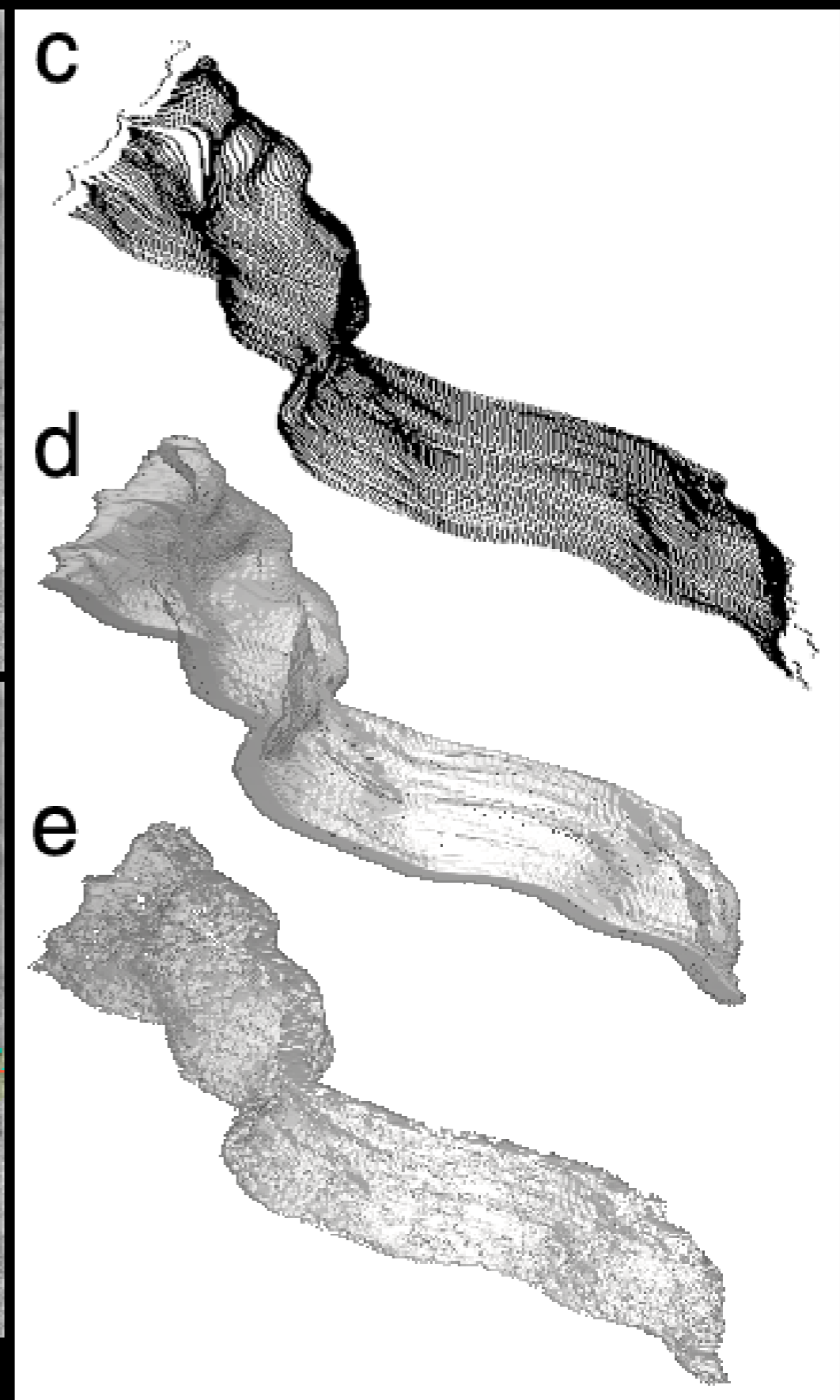
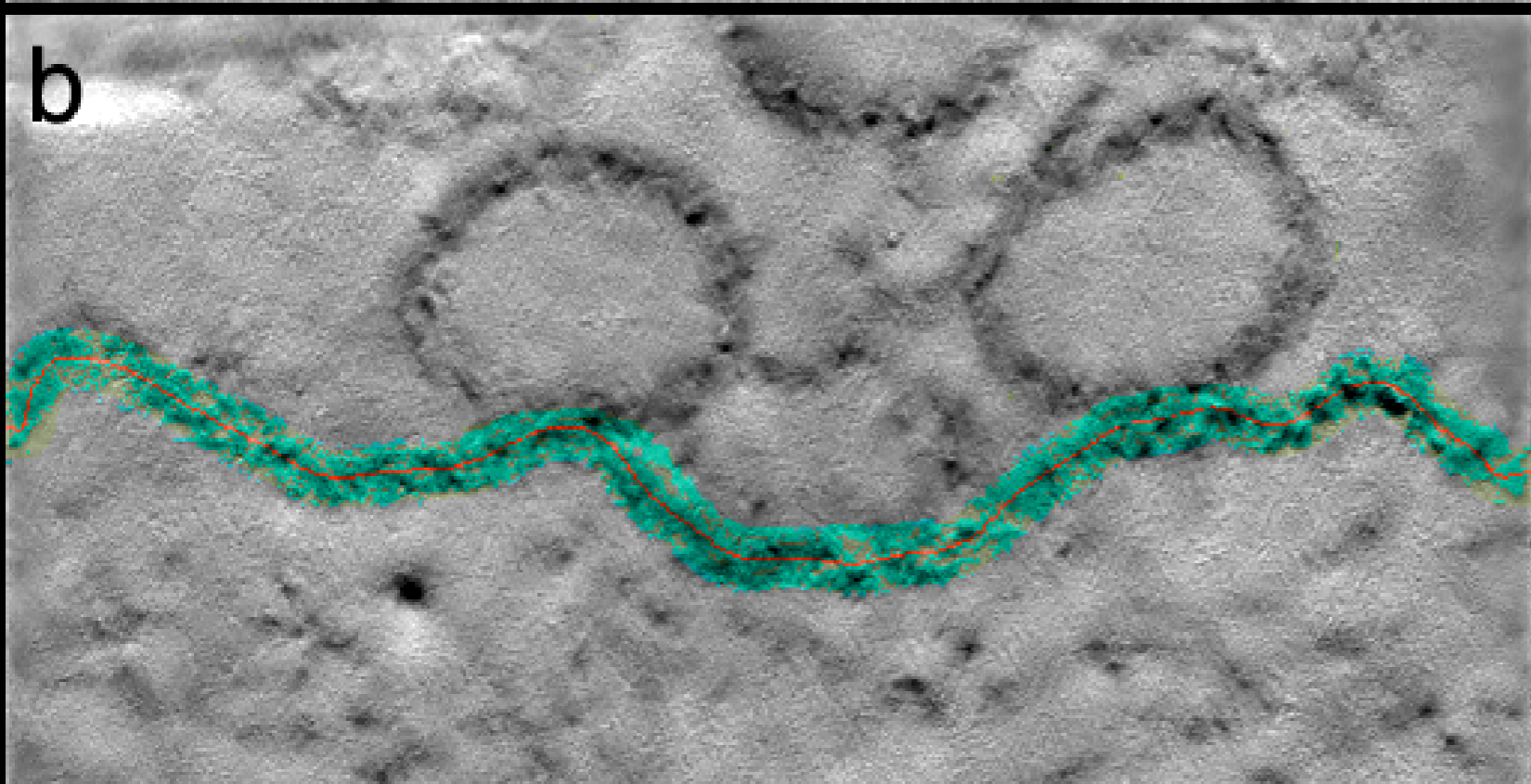
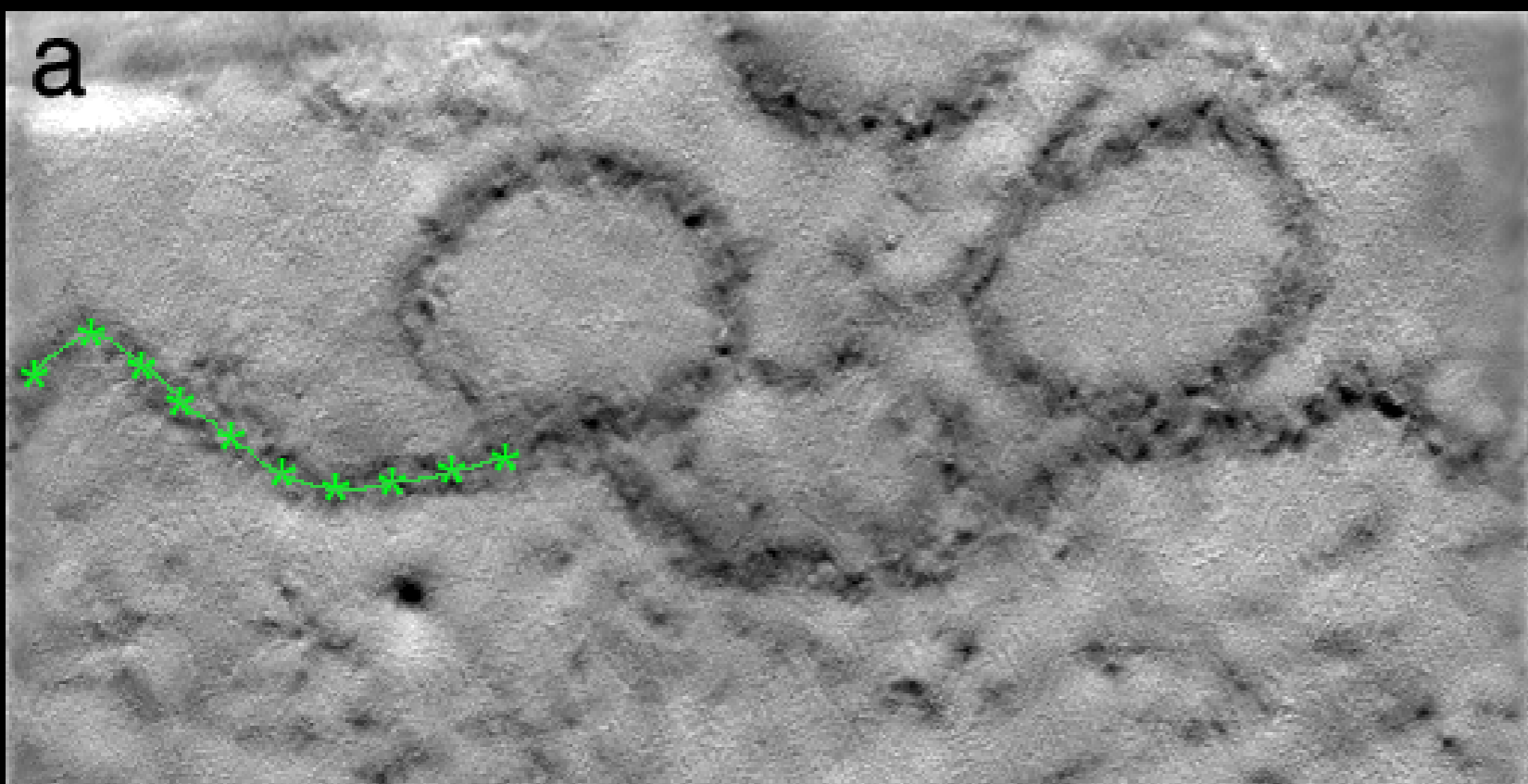
Software for Electron Microscope Tomography

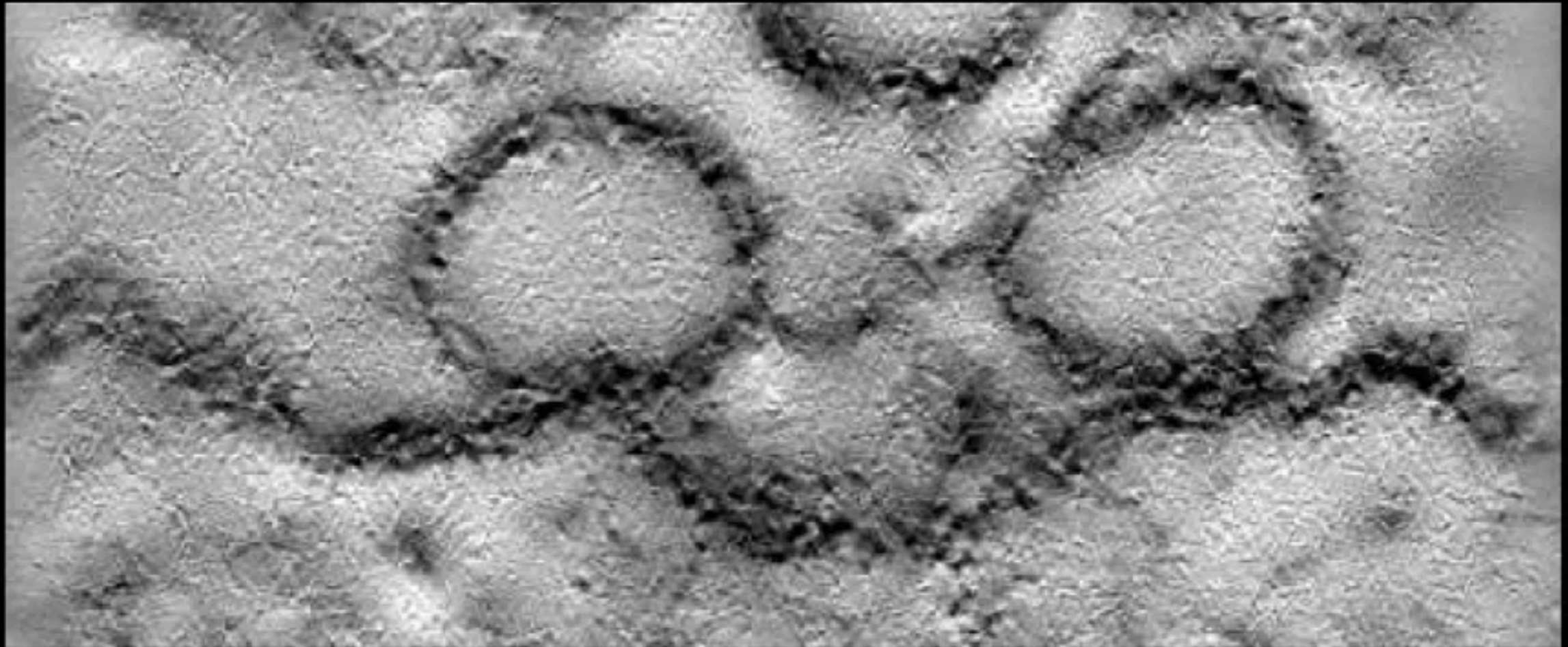
David Ress, Mark Harlow, Robert Marshall, Cornelia Koch-Stoschek, David Yip,
Mira Roman and U.J. McMahan

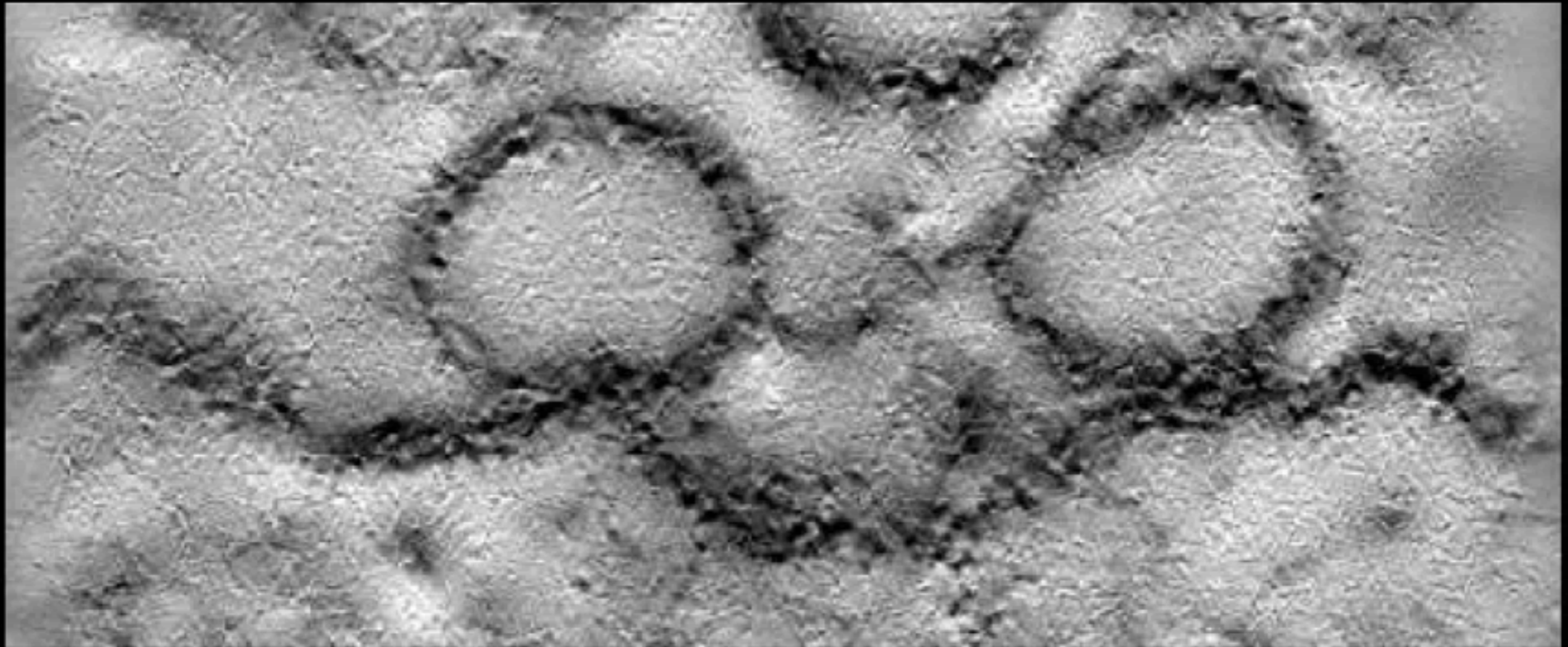


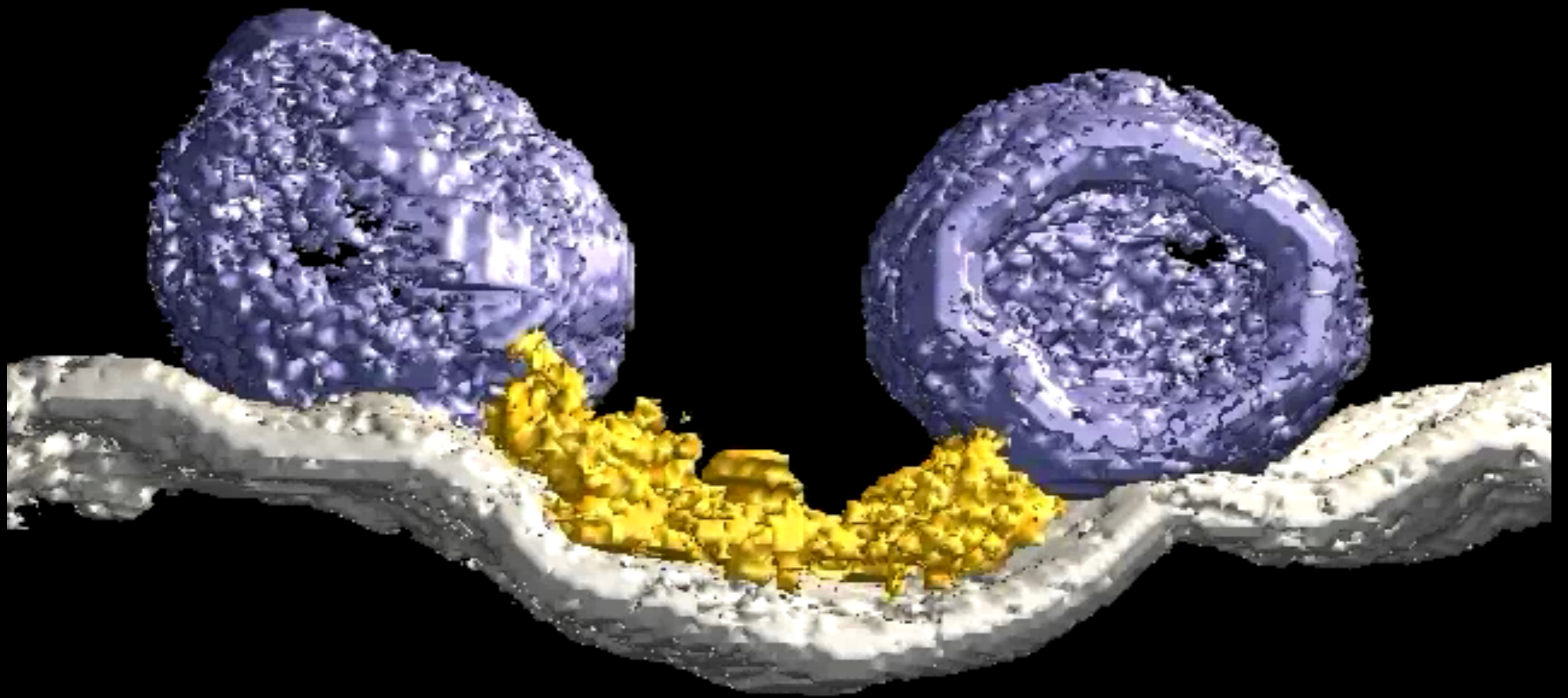
This Human Brain Project/Neuroinformatics
research is funded by the
National Institute of Mental Health

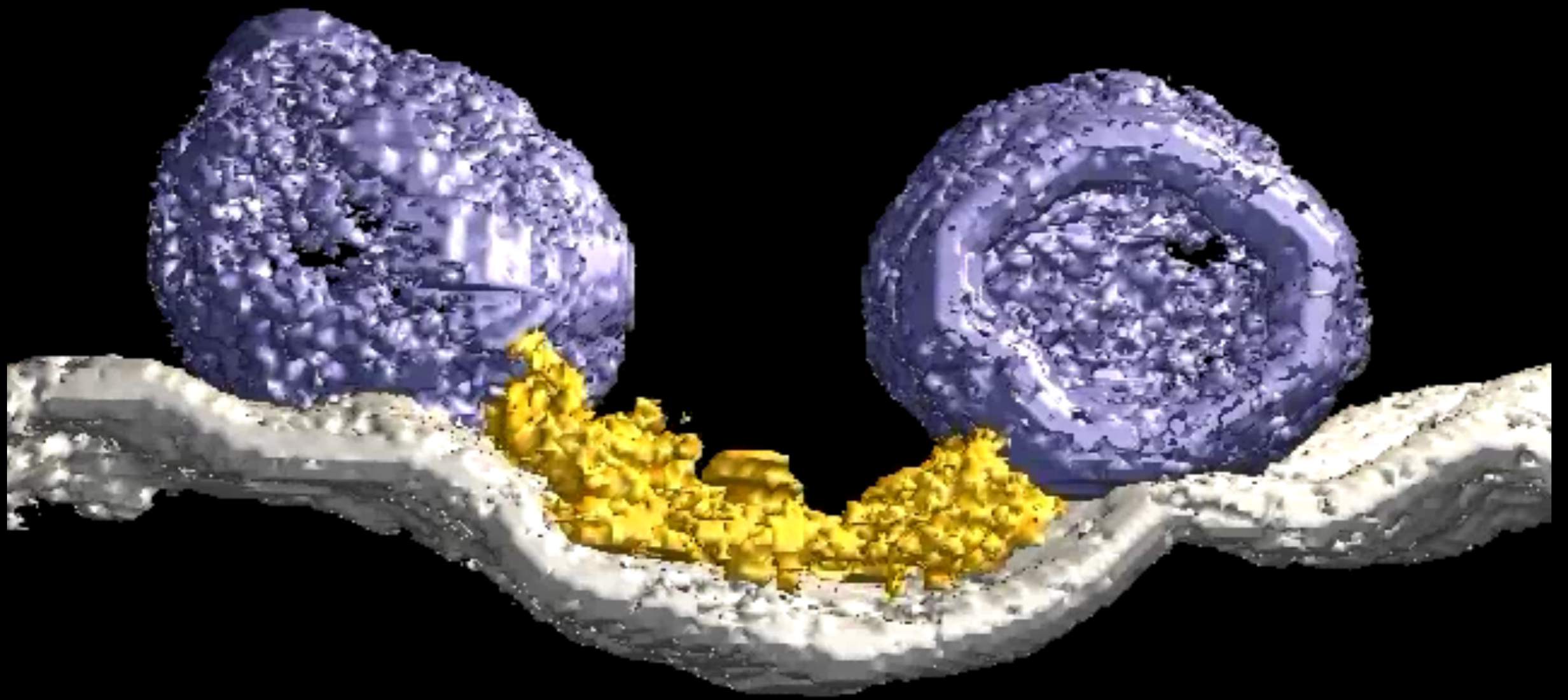


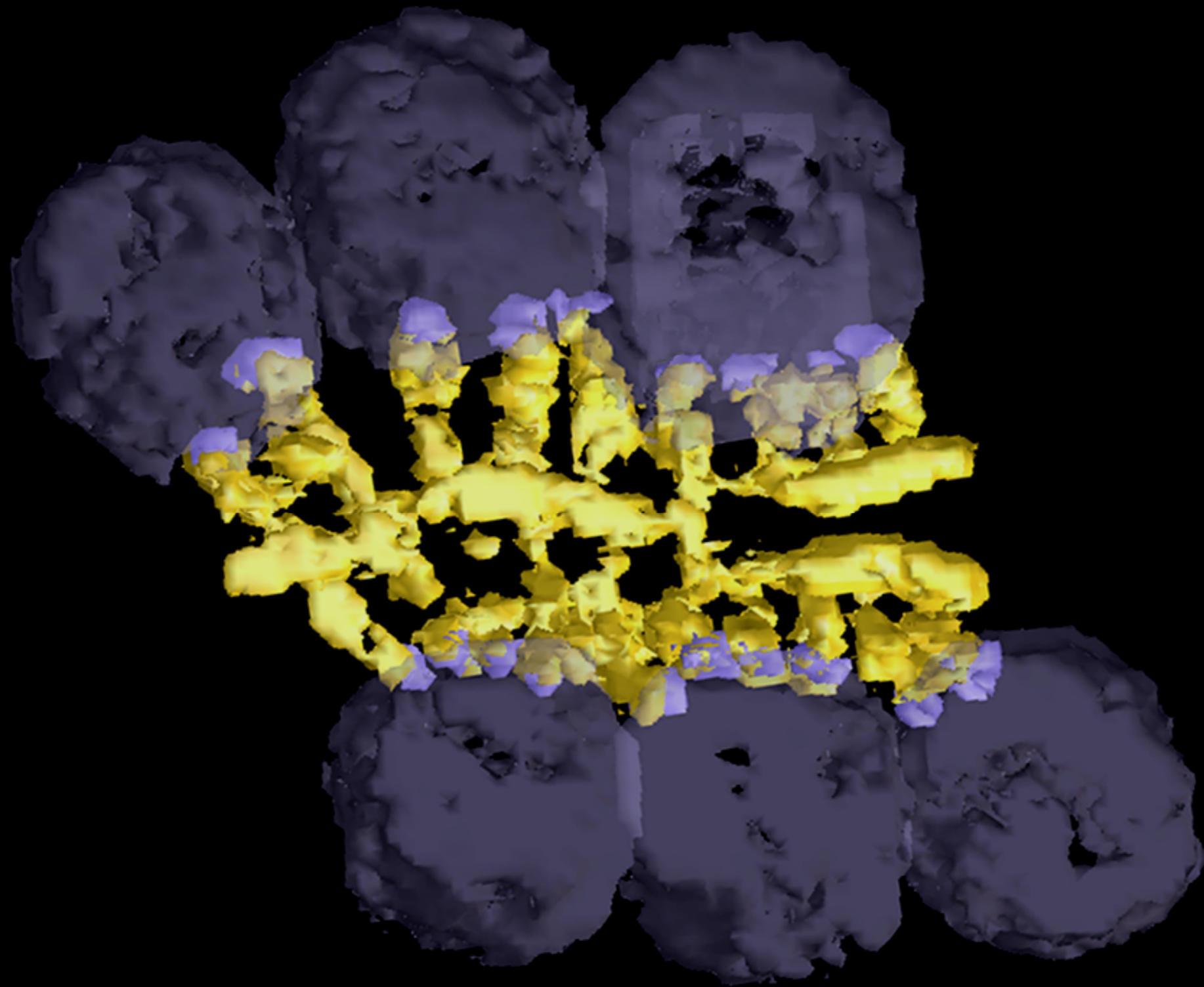


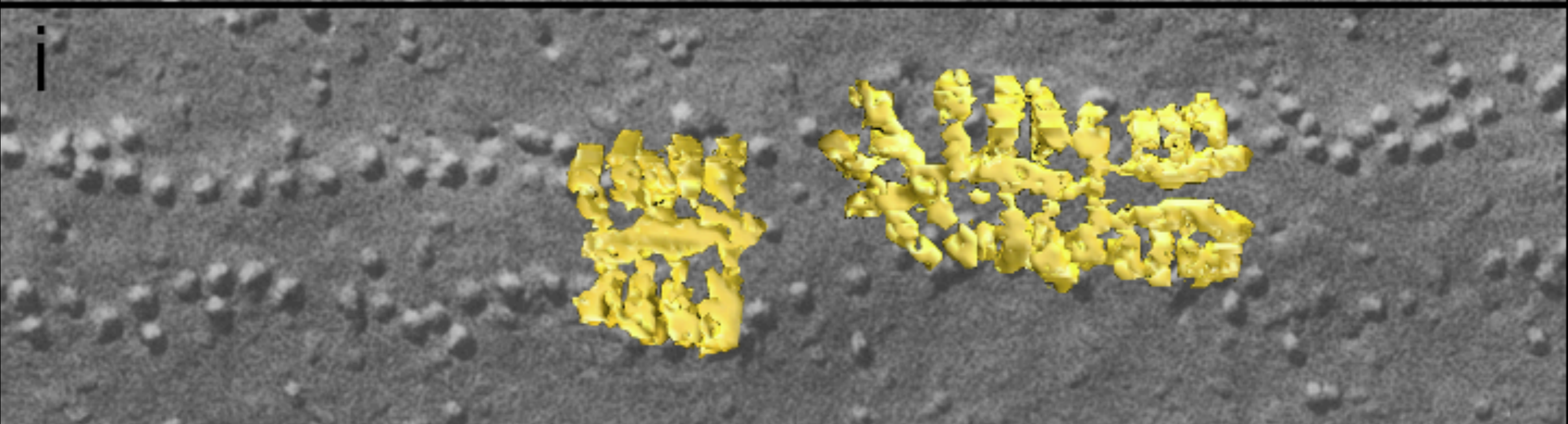






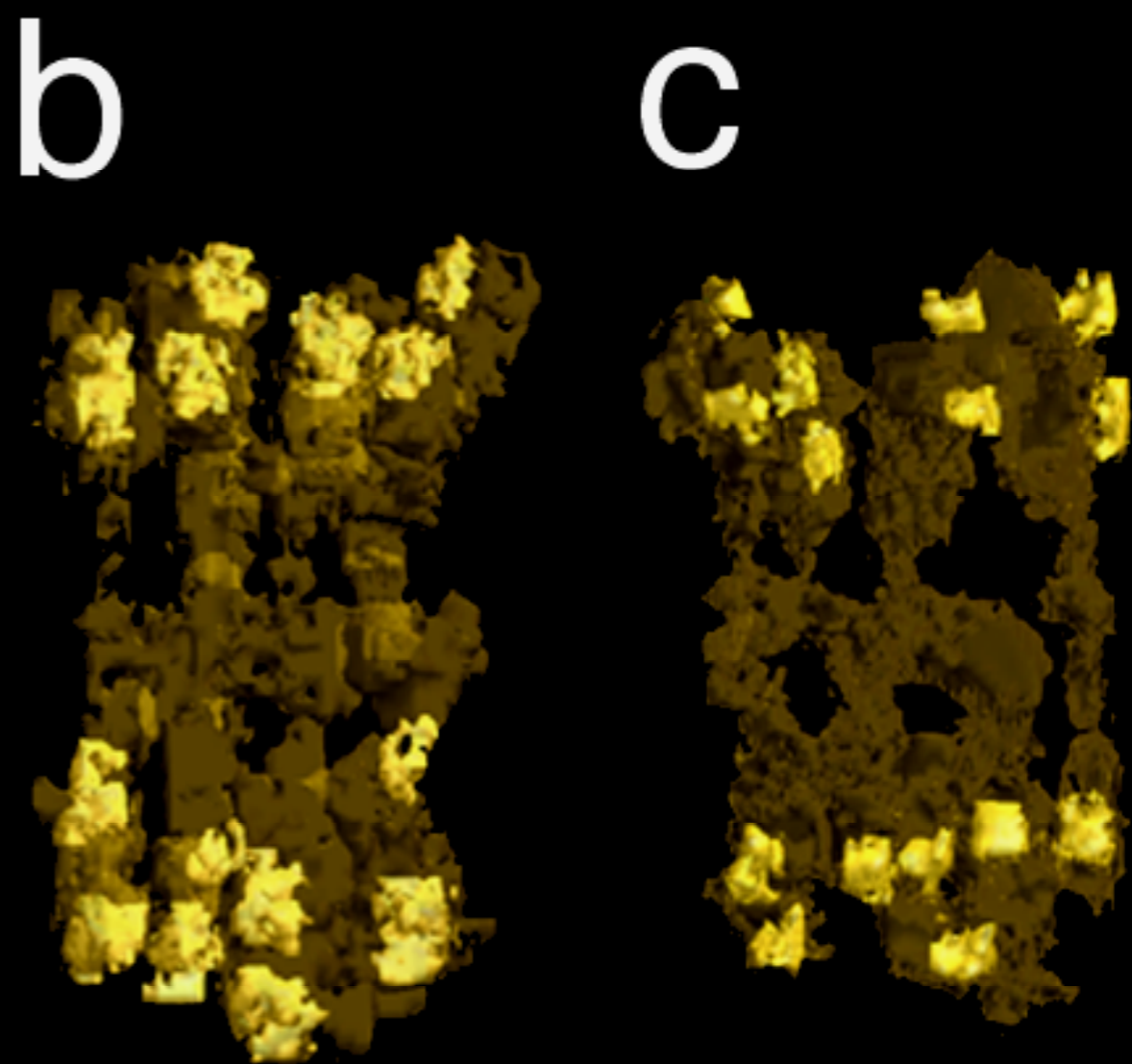
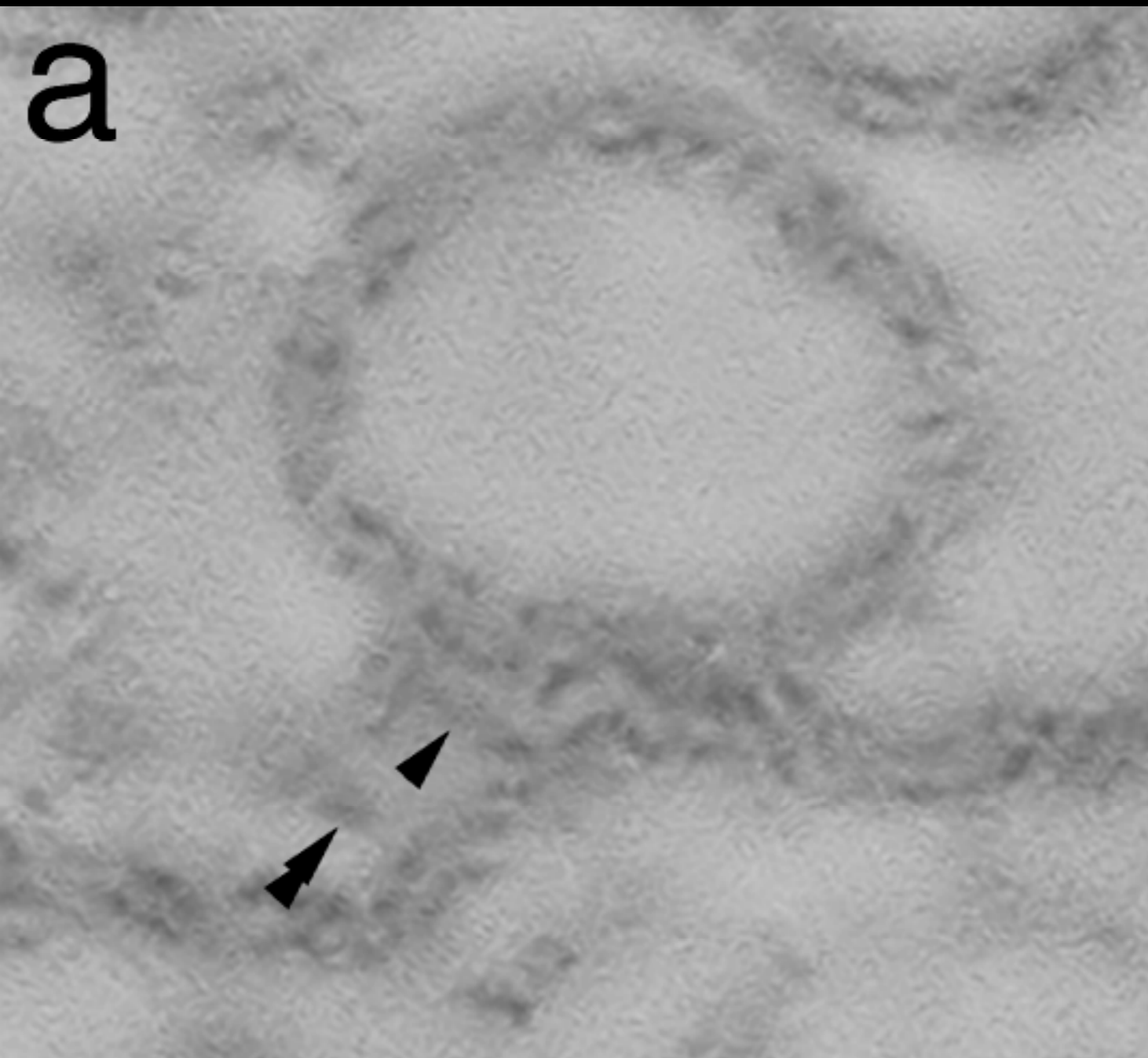


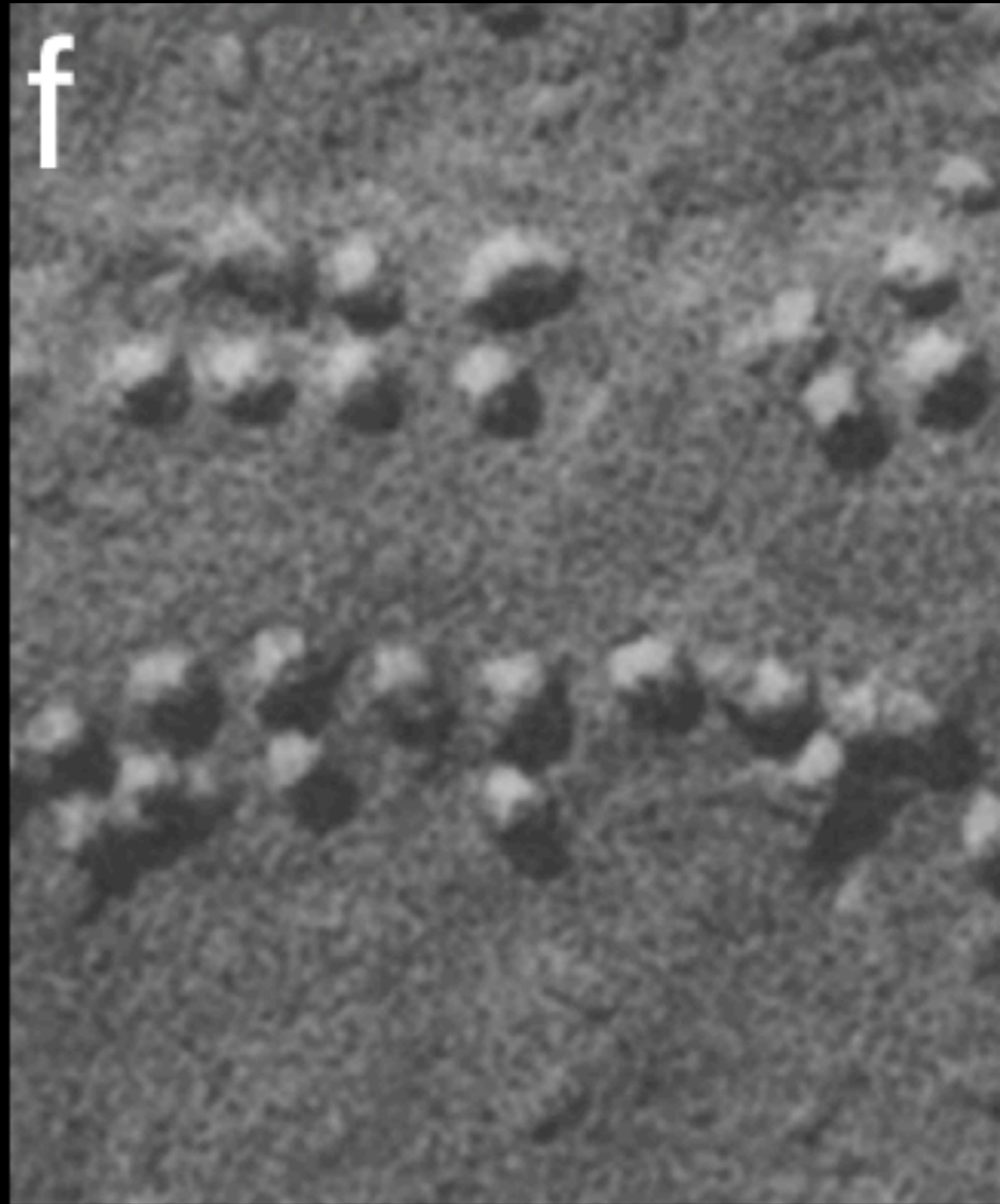




Heuser & Reese (1981) J. Cell Biol. 88: 564-560.

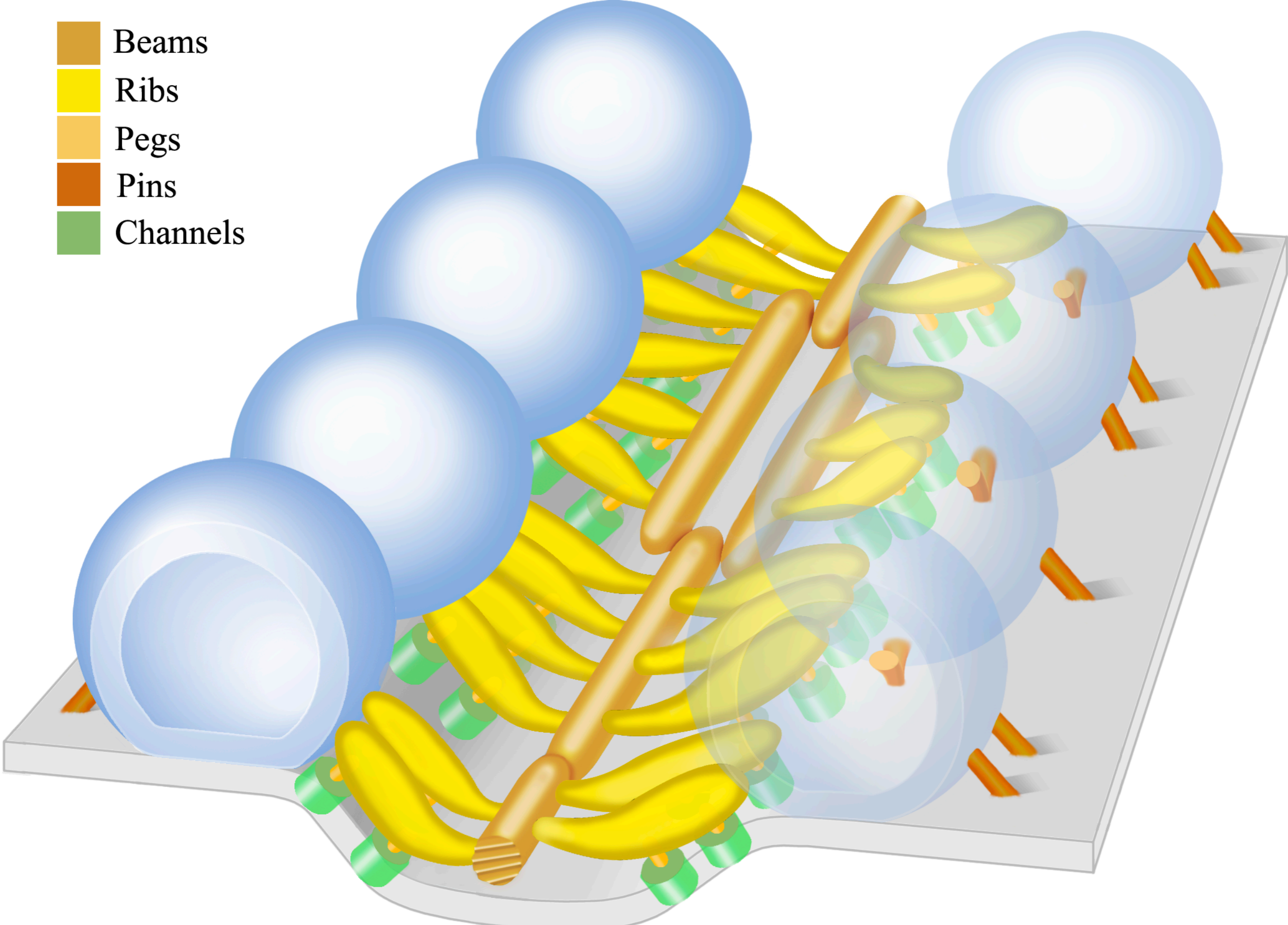
Harlow, Ress, Marshall & McMahan (2001) Nature 409: 479-484.



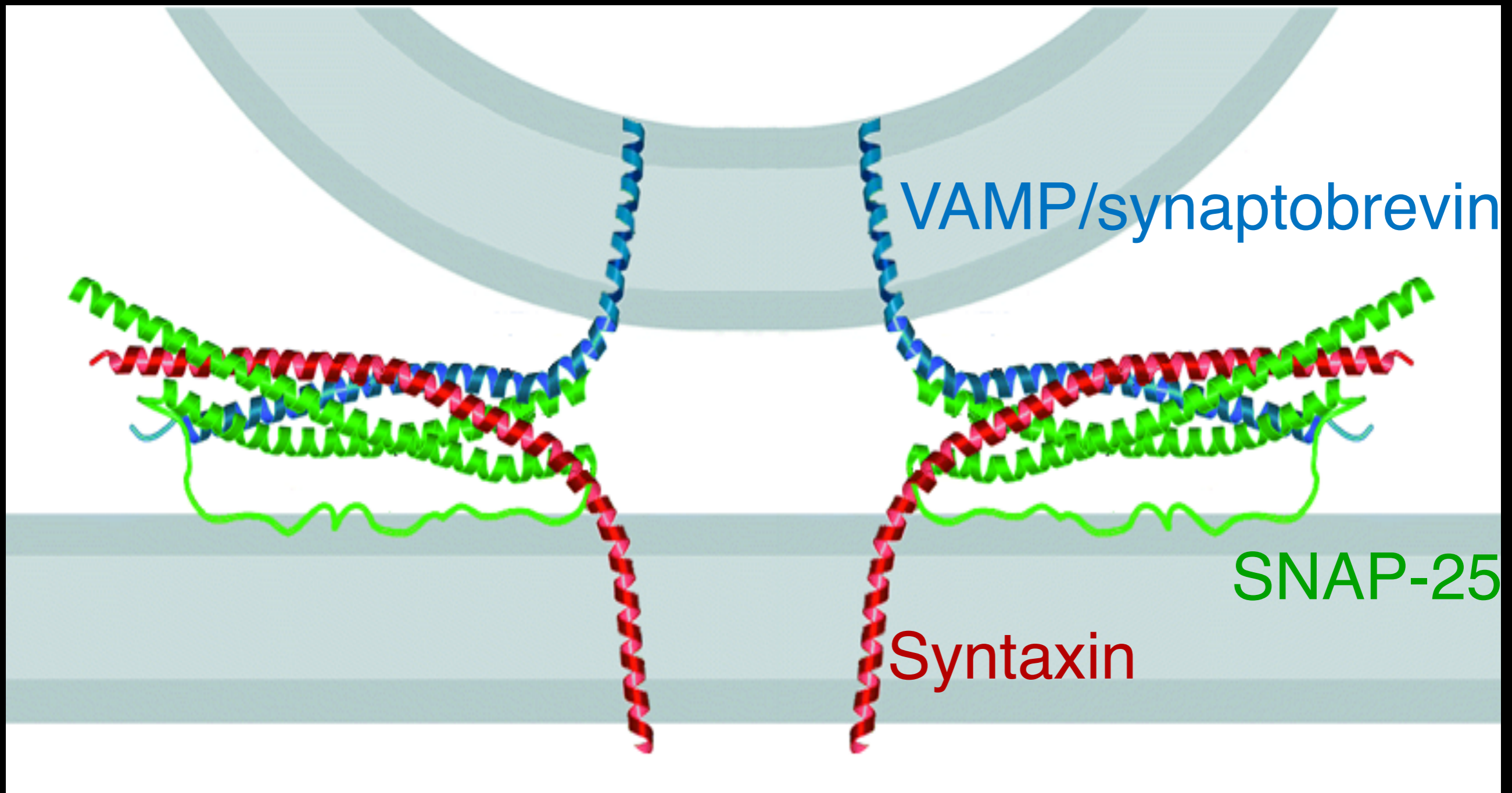


Harlow, Ress, Marshall & McMahan (2001) Nature 409: 479-484.

- Beams
- Ribs
- Pegs
- Pins
- Channels

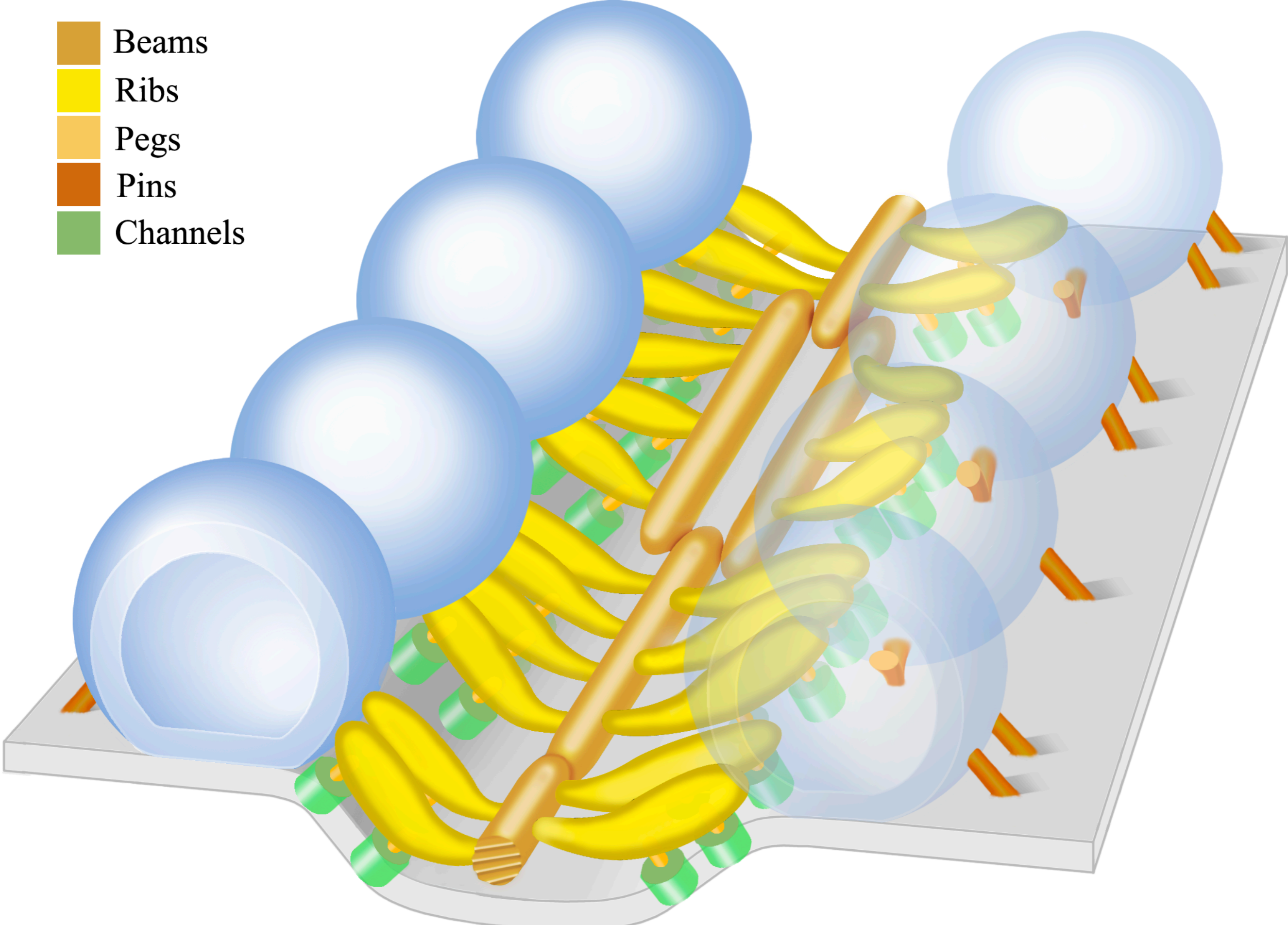


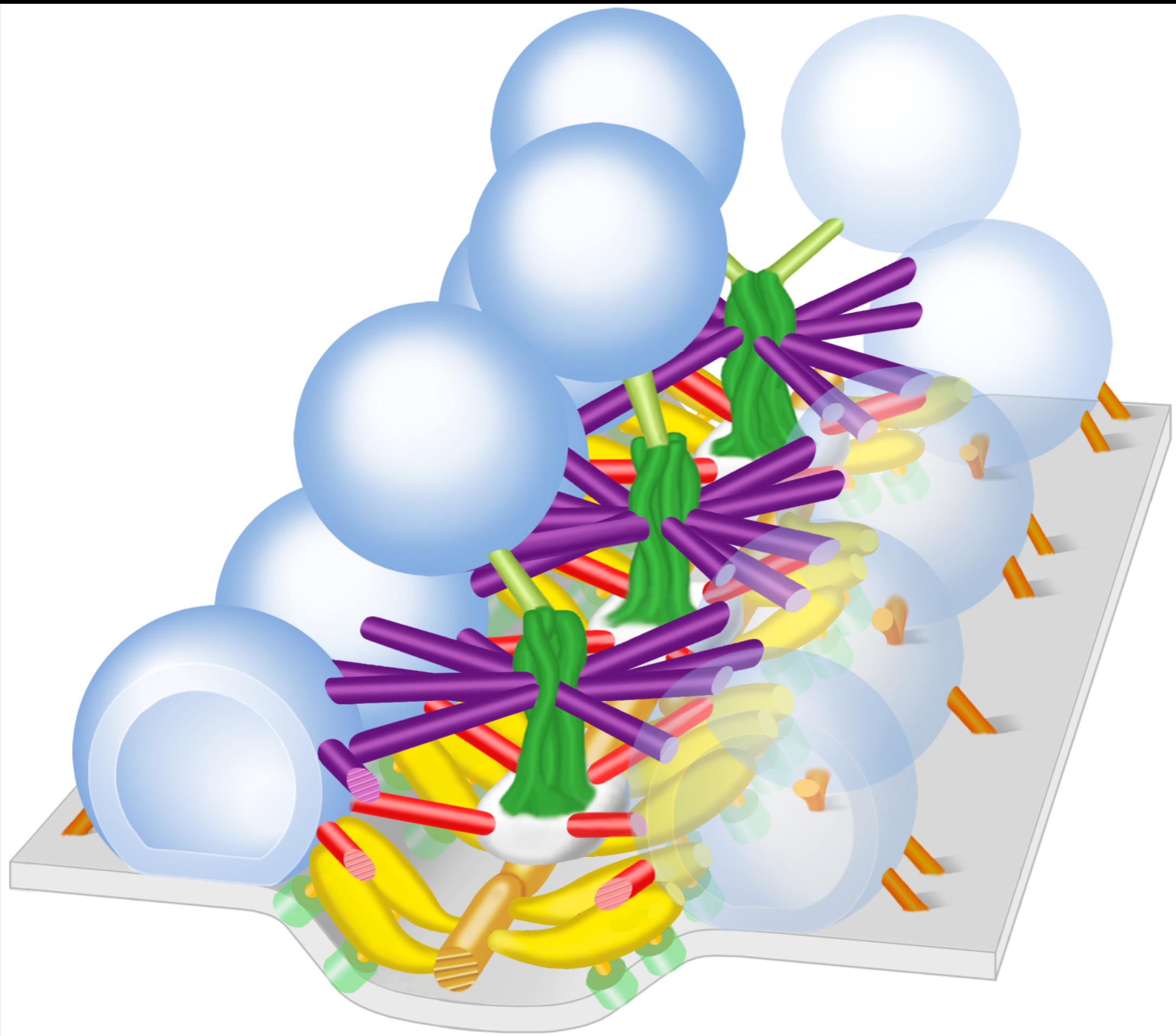
SNARE Hypothesis



Adapted from Sutton et al. (1998) Nature 395:347-353

- Beams
- Ribs
- Pegs
- Pins
- Channels





Szule, Harlow, Jung, De-Miguel, Marshall, McMahan (2012) PLoS ONE 7(3): e33333.

