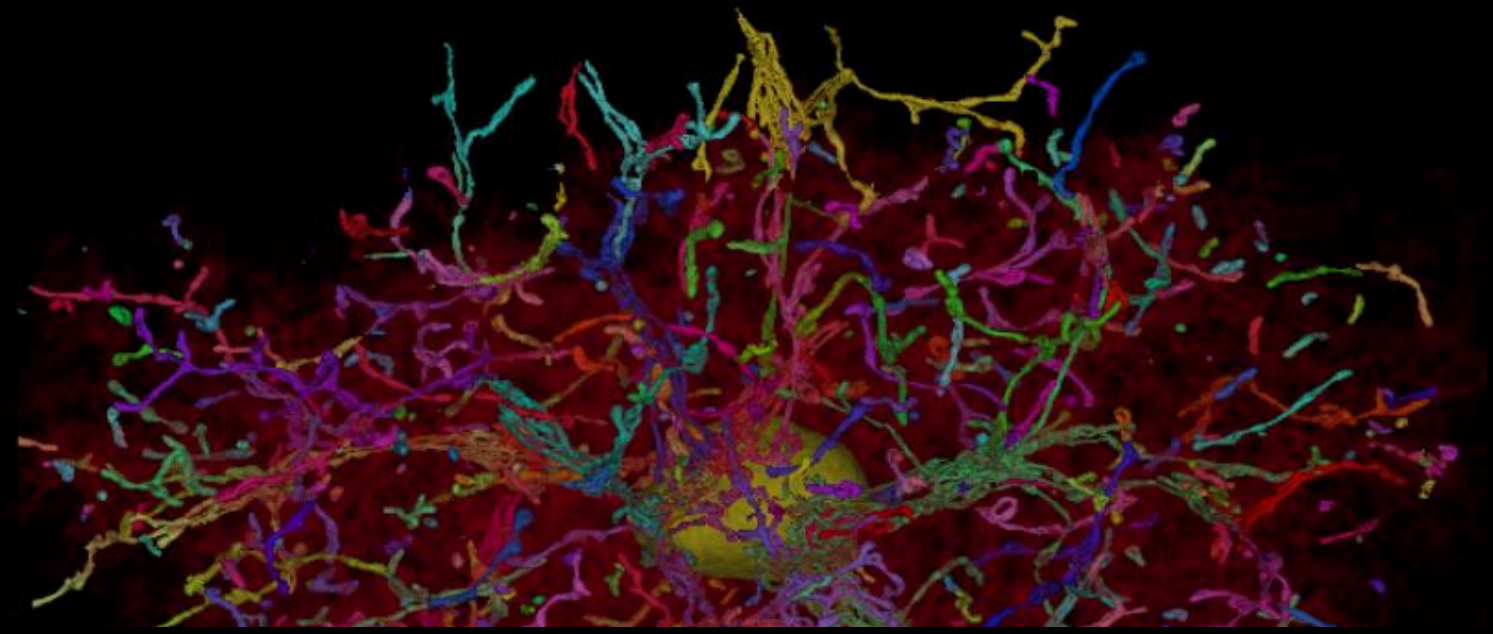
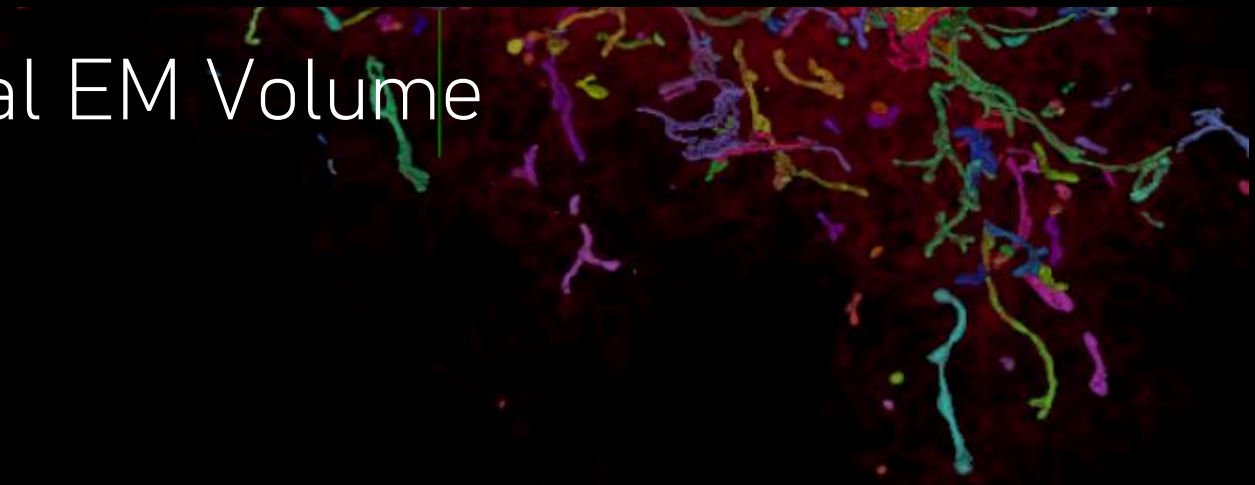
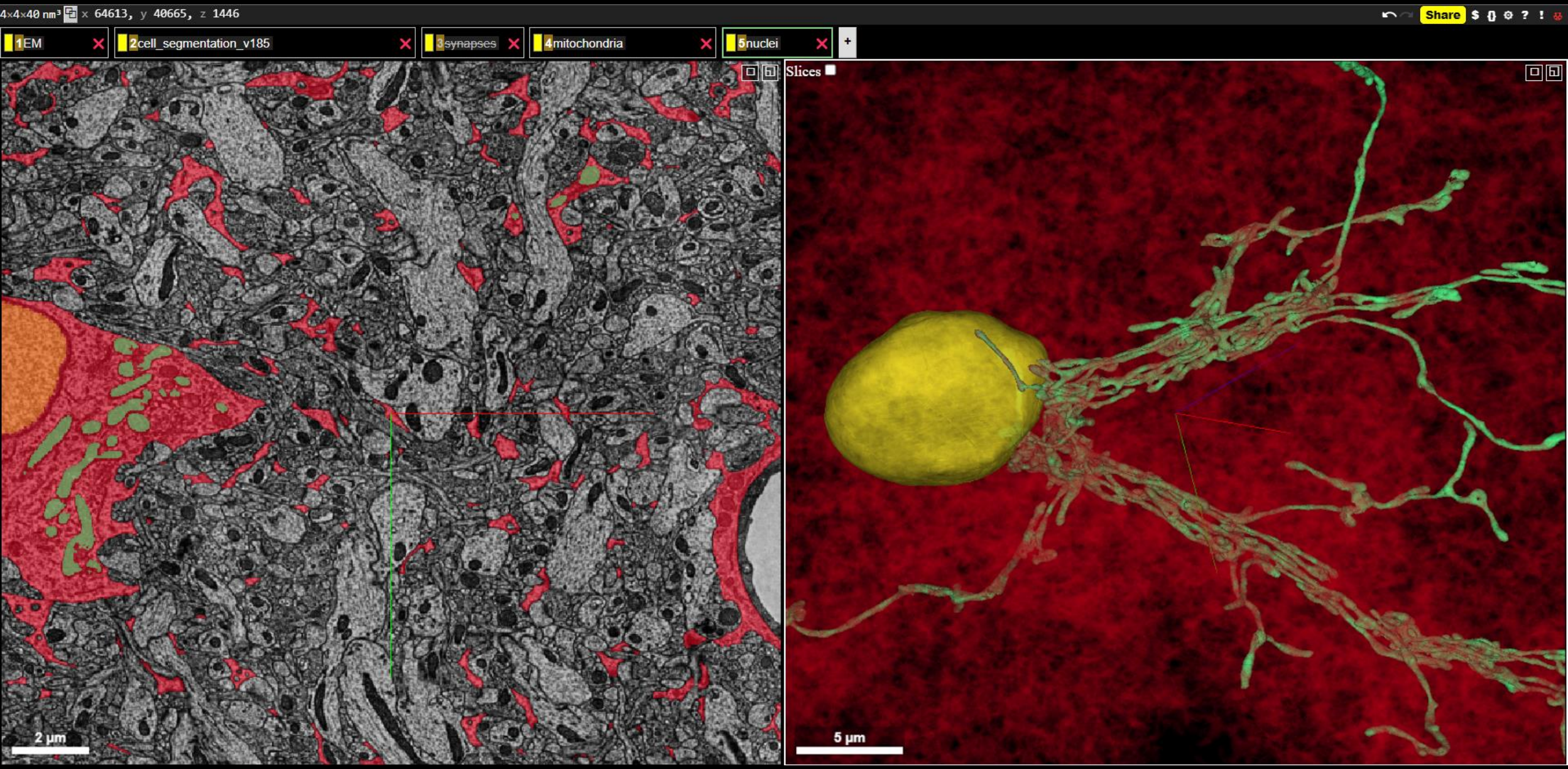


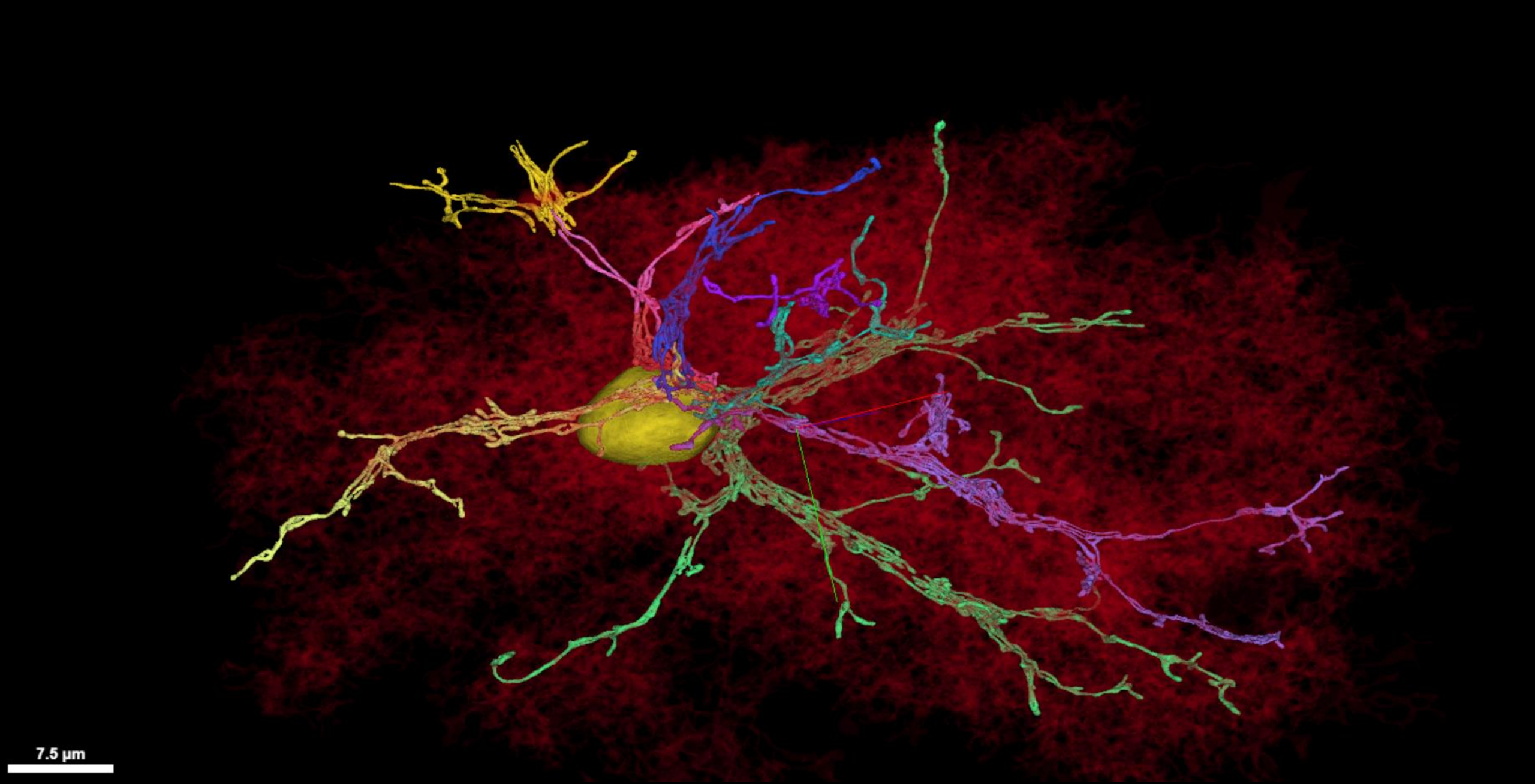
MITOCHONDRIA

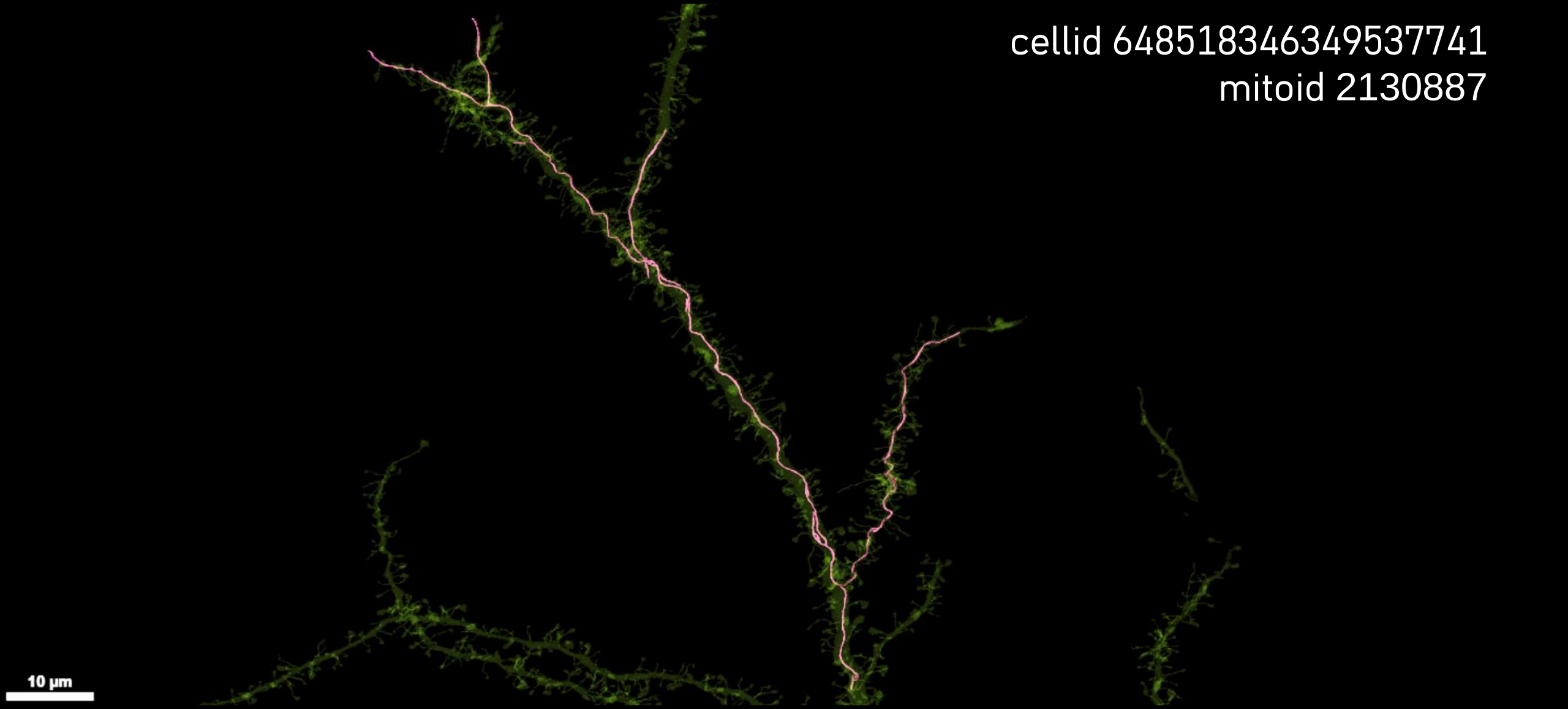
Layer 2/3 Serial EM Volume





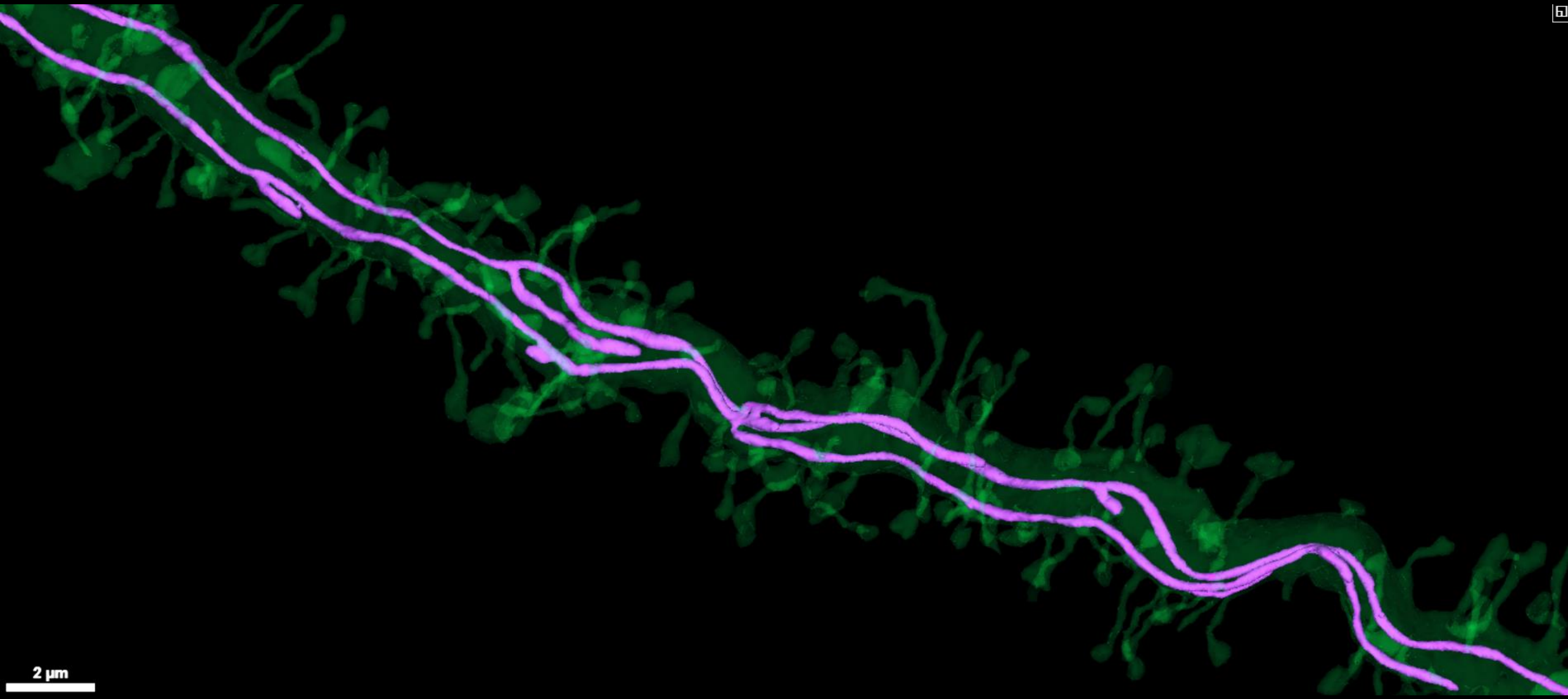
largest contiguous mitochondrion in the entire volume (astrocyte 6485183463495273 19)

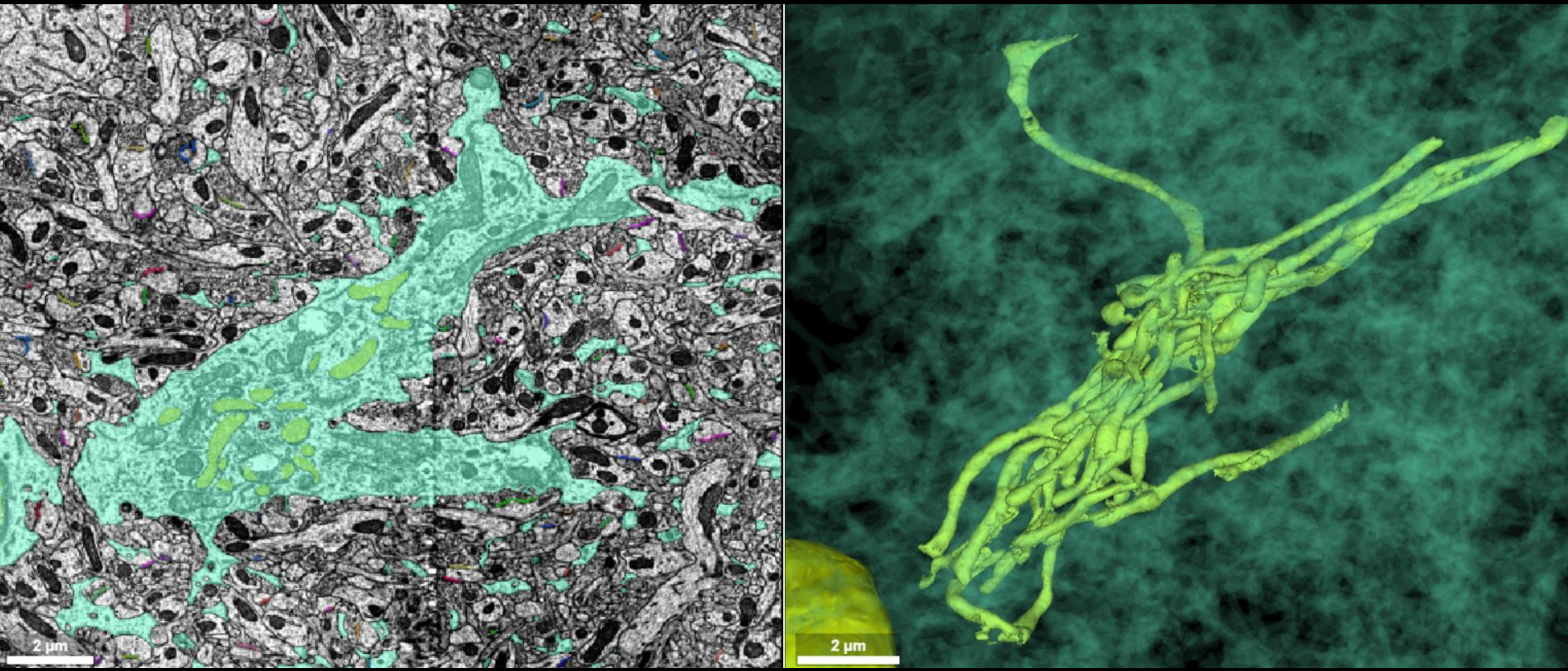

7.5 µm



cellid 64851834634953774l
mitoid 2130887

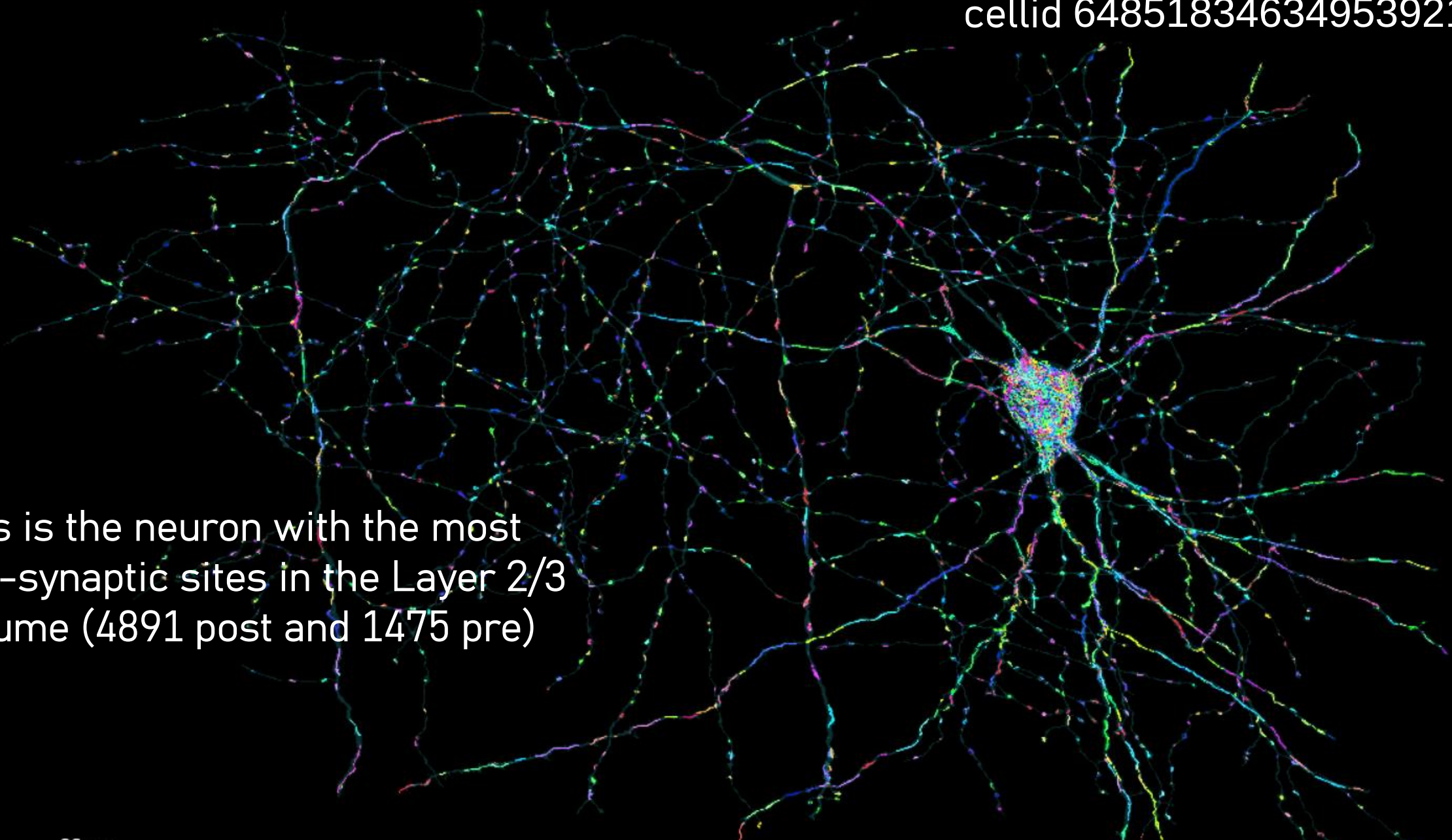
largest contiguous mitochondrion in a neuron


2 µm



largest mitochondrion by voxels in an OPC glial cell (64851834634952554 5)

cellid 648518346349539215



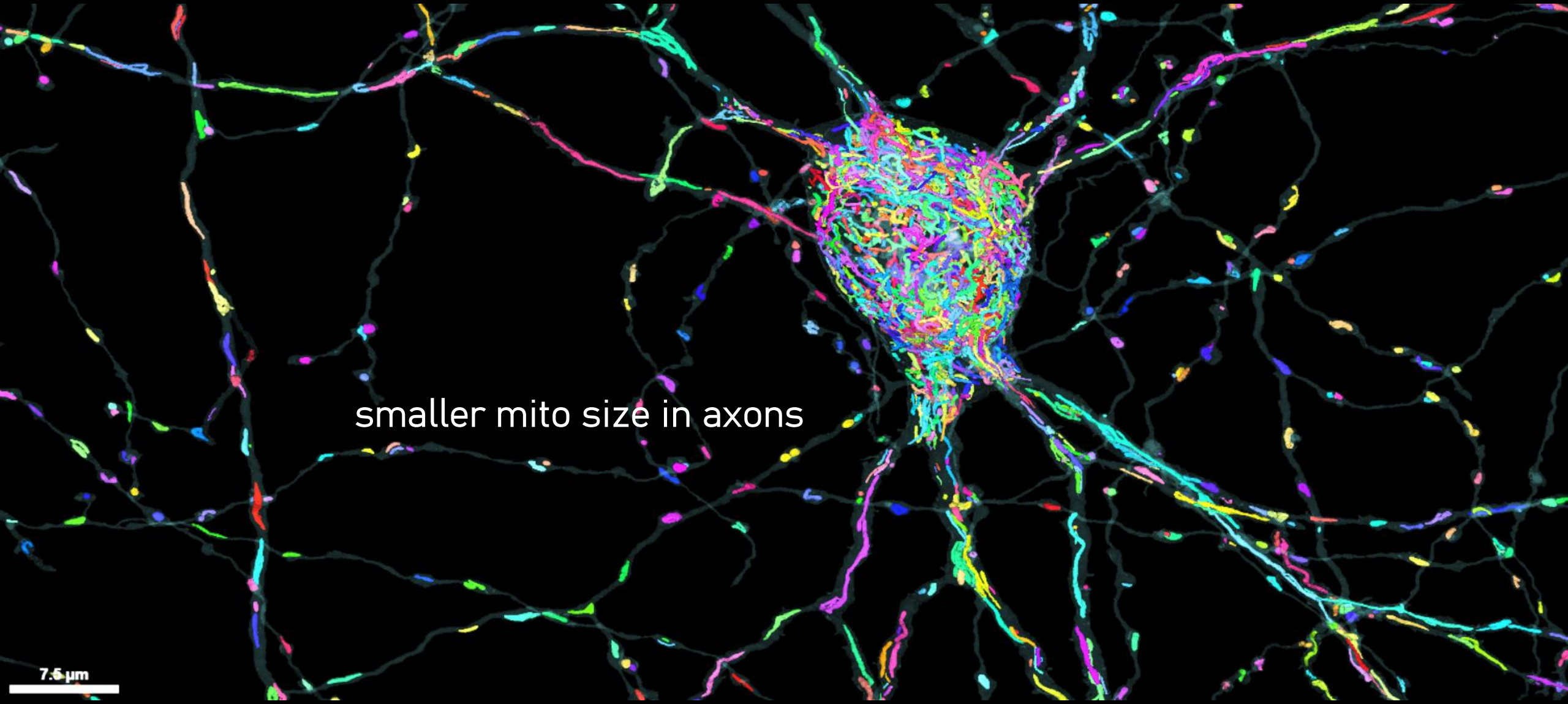
This is the neuron with the most pre-synaptic sites in the Layer 2/3 volume (4891 post and 1475 pre)

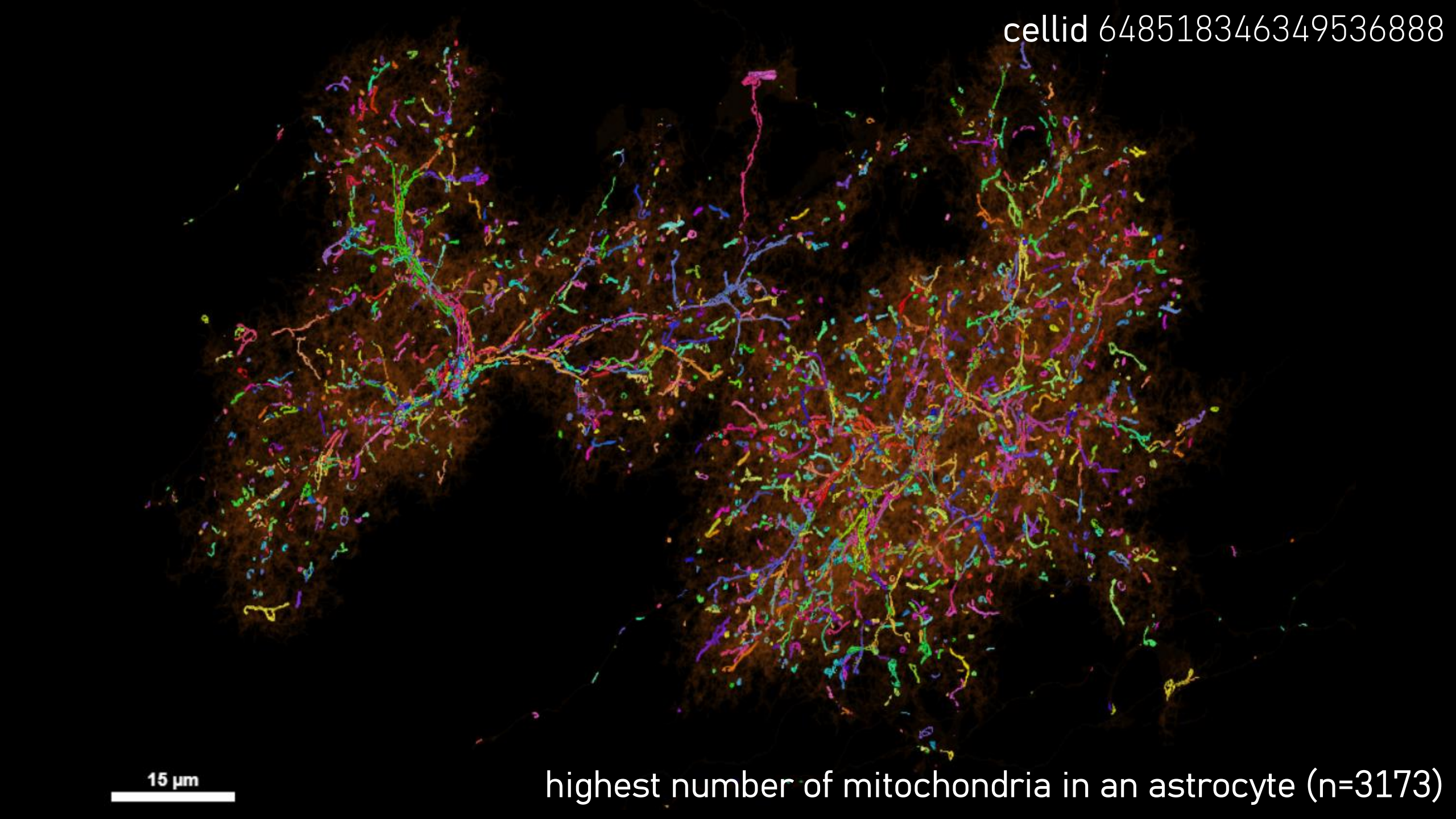
30 µm

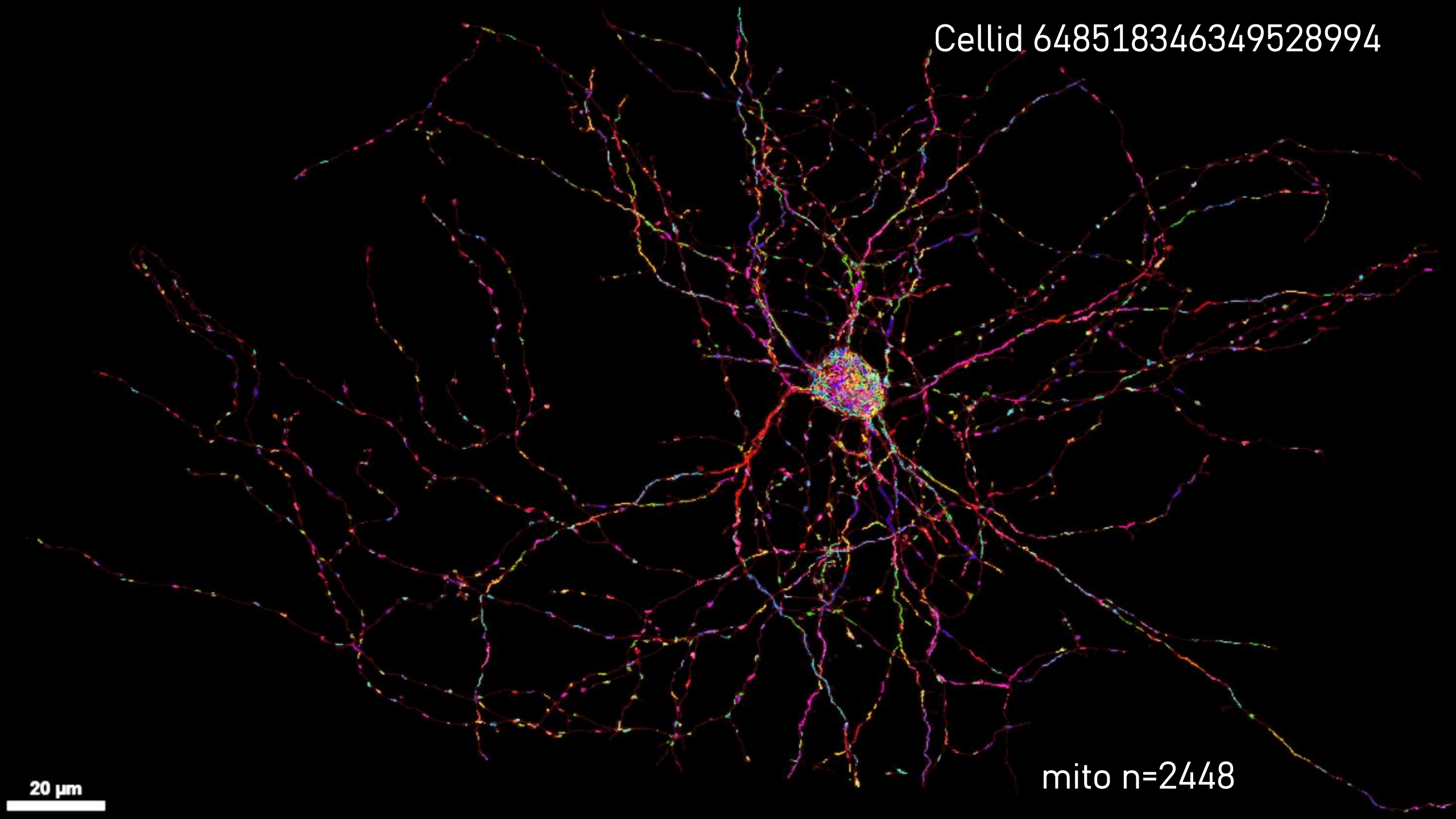
highest number of mitochondria in a neuron (n=3213)

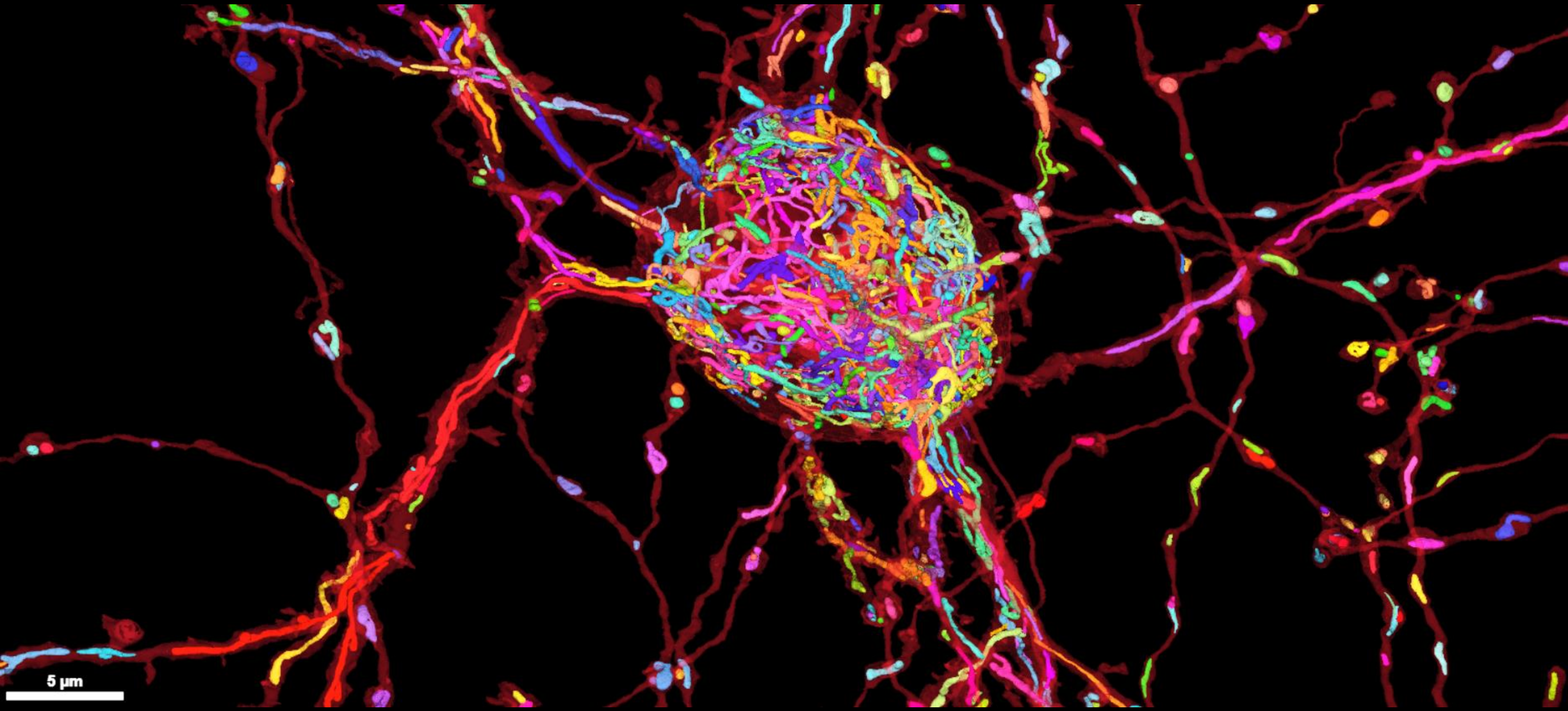
longer mito length in dendrites

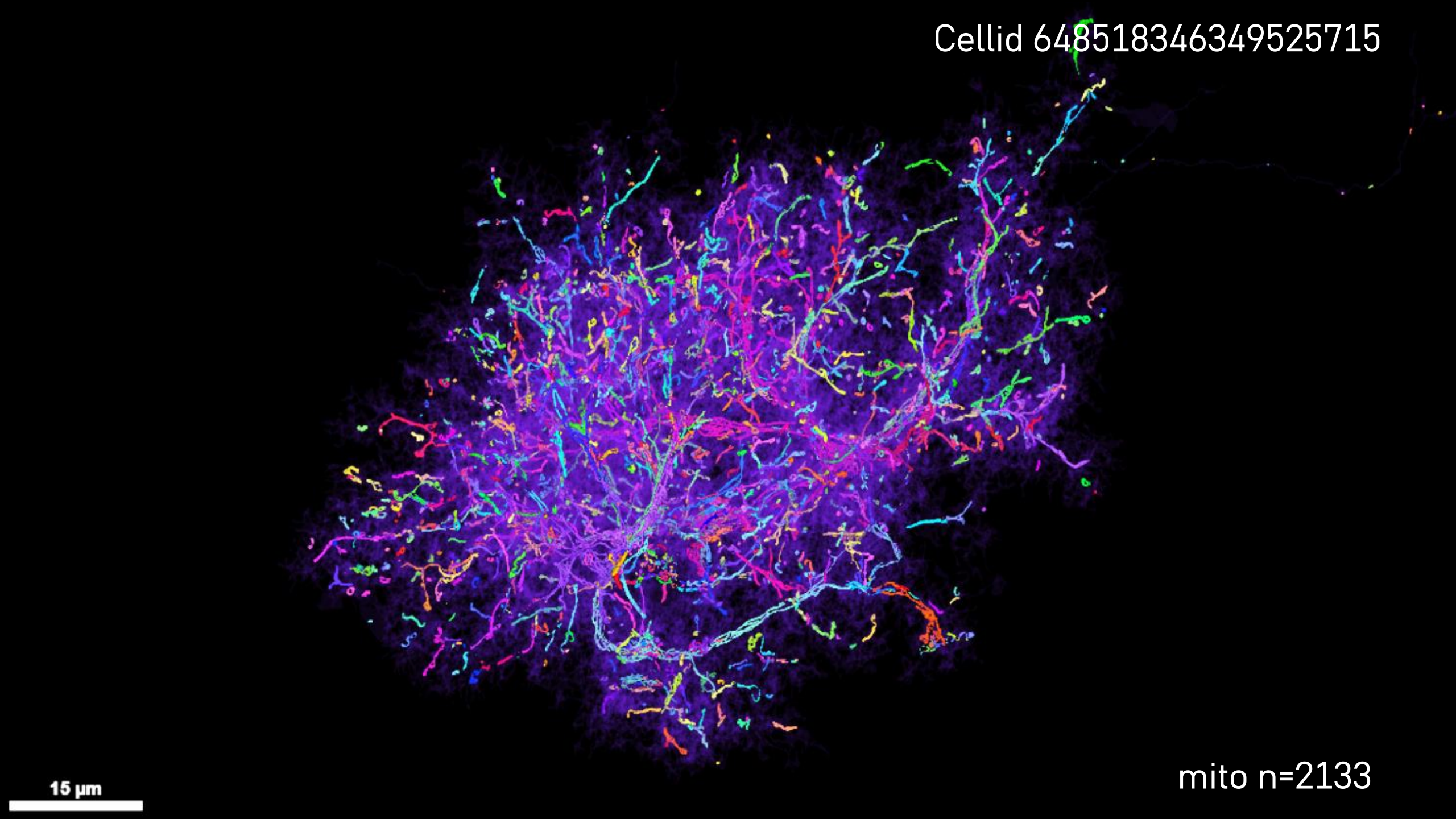
cellid 648518346349539215

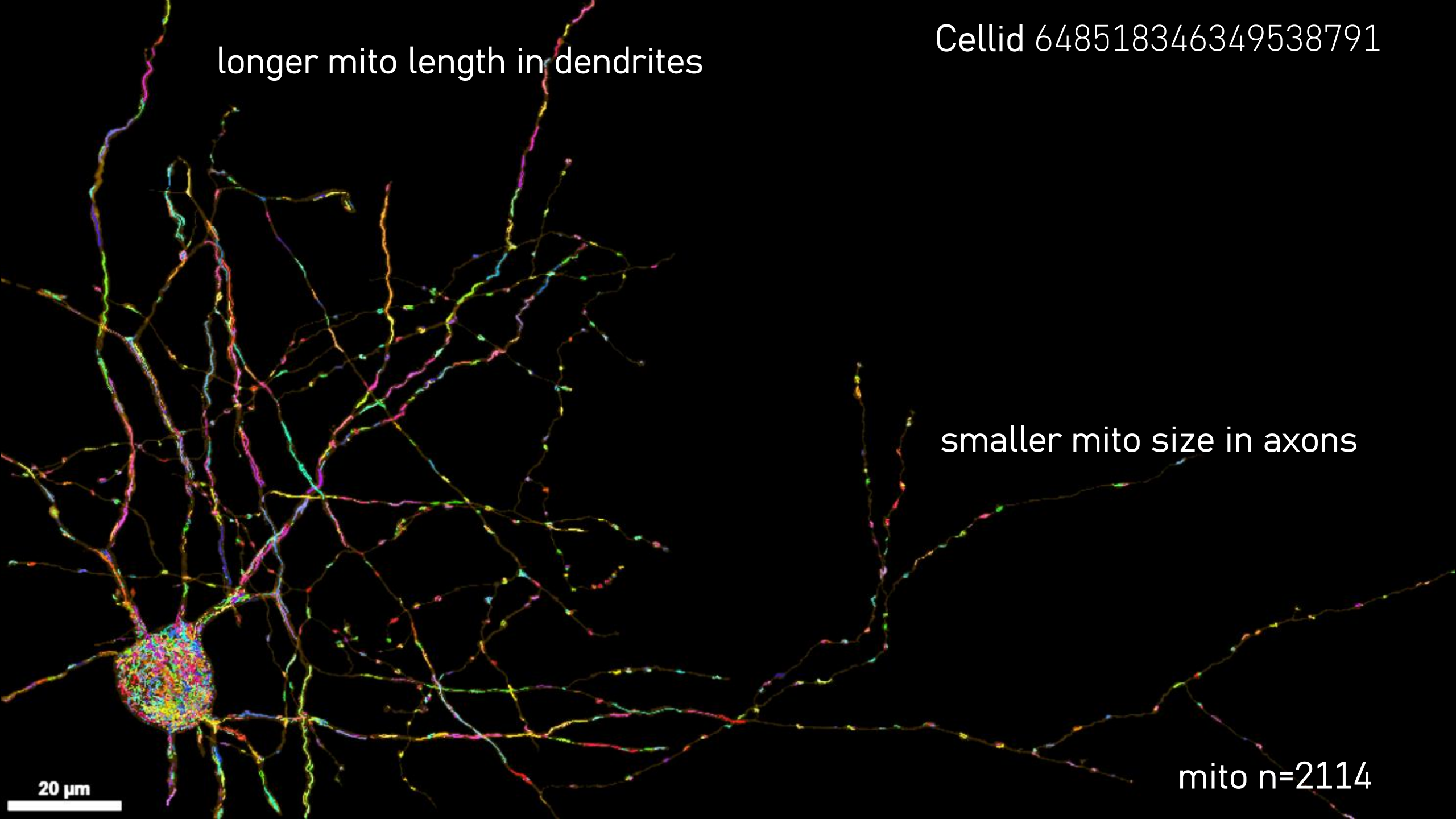


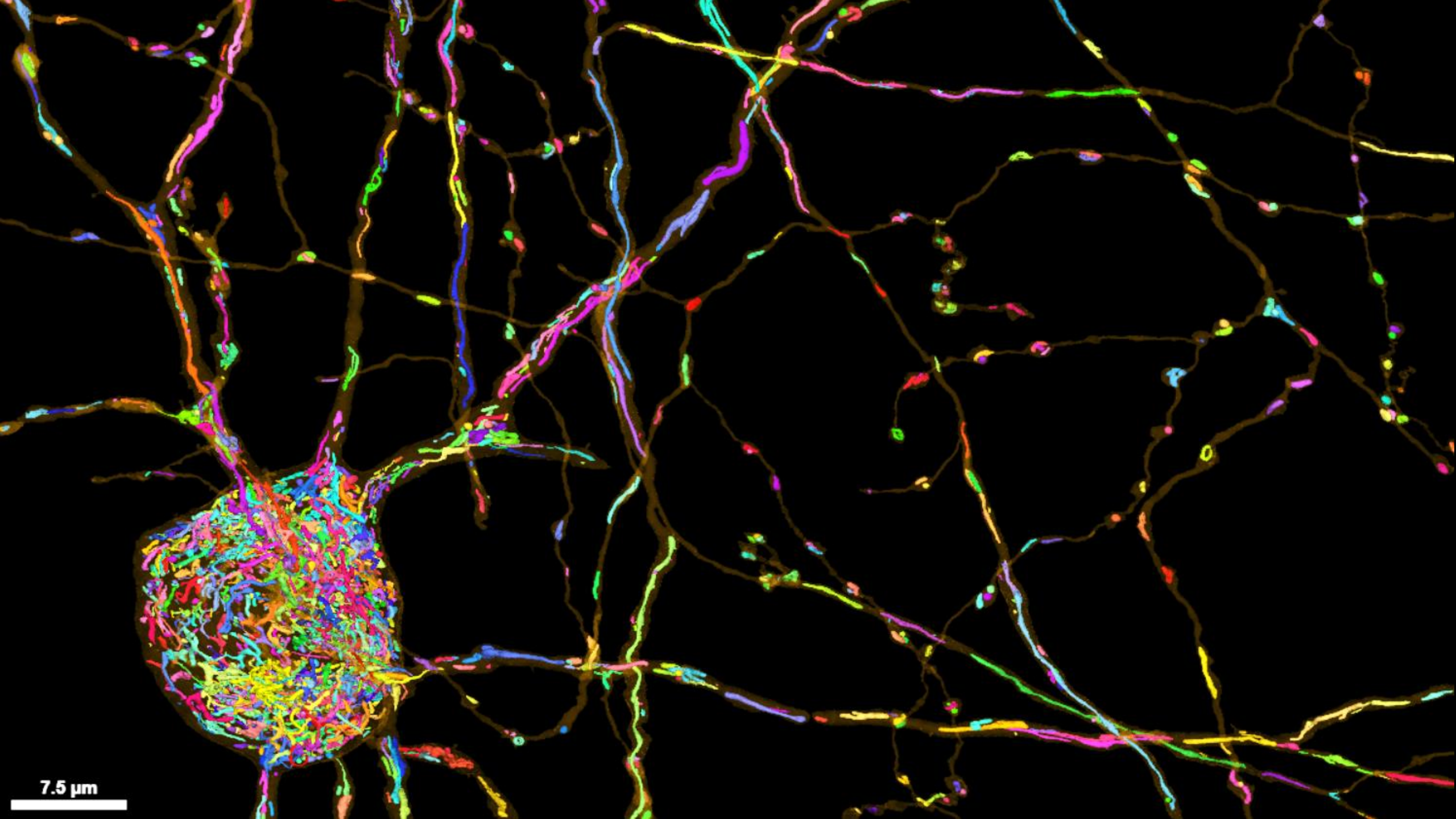

cellid 648518346349536888
15 µm
highest number of mitochondria in an astrocyte (n=3173)

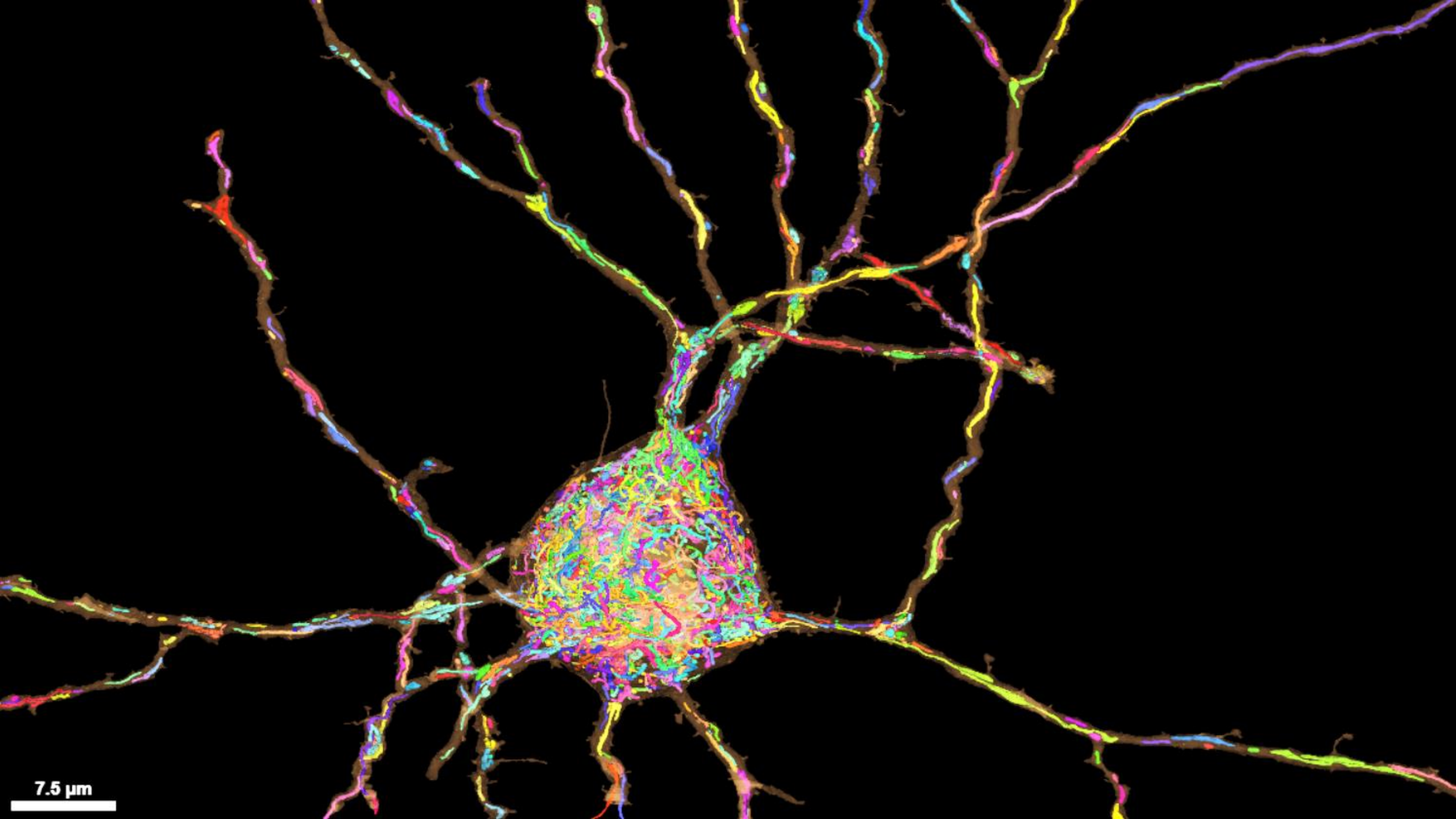

Cellid 64851834634952899 4
mito n=2448
20 µm

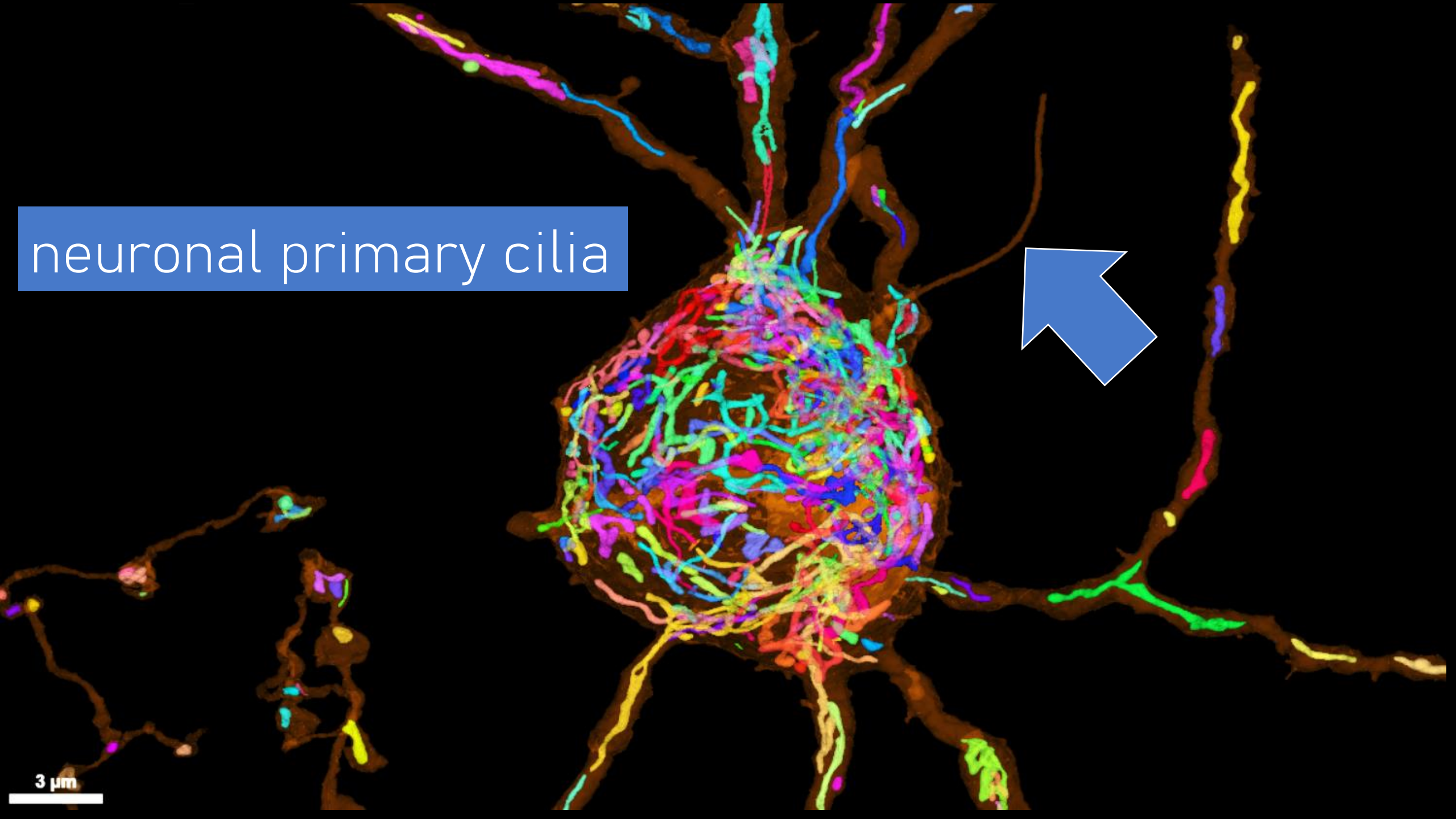

5 µm

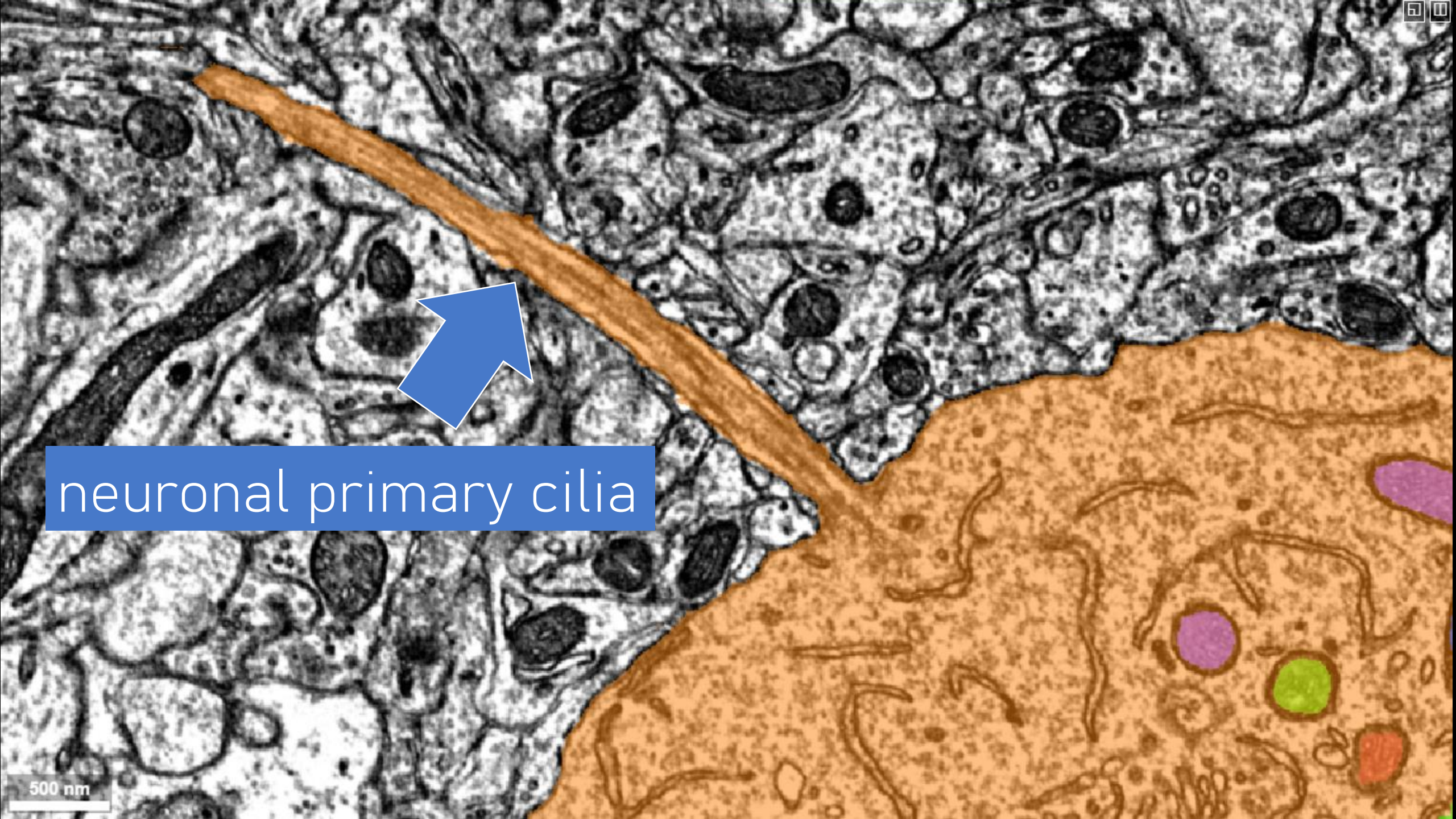

Cellid 648518346349525715
15 µm
mito n=2133

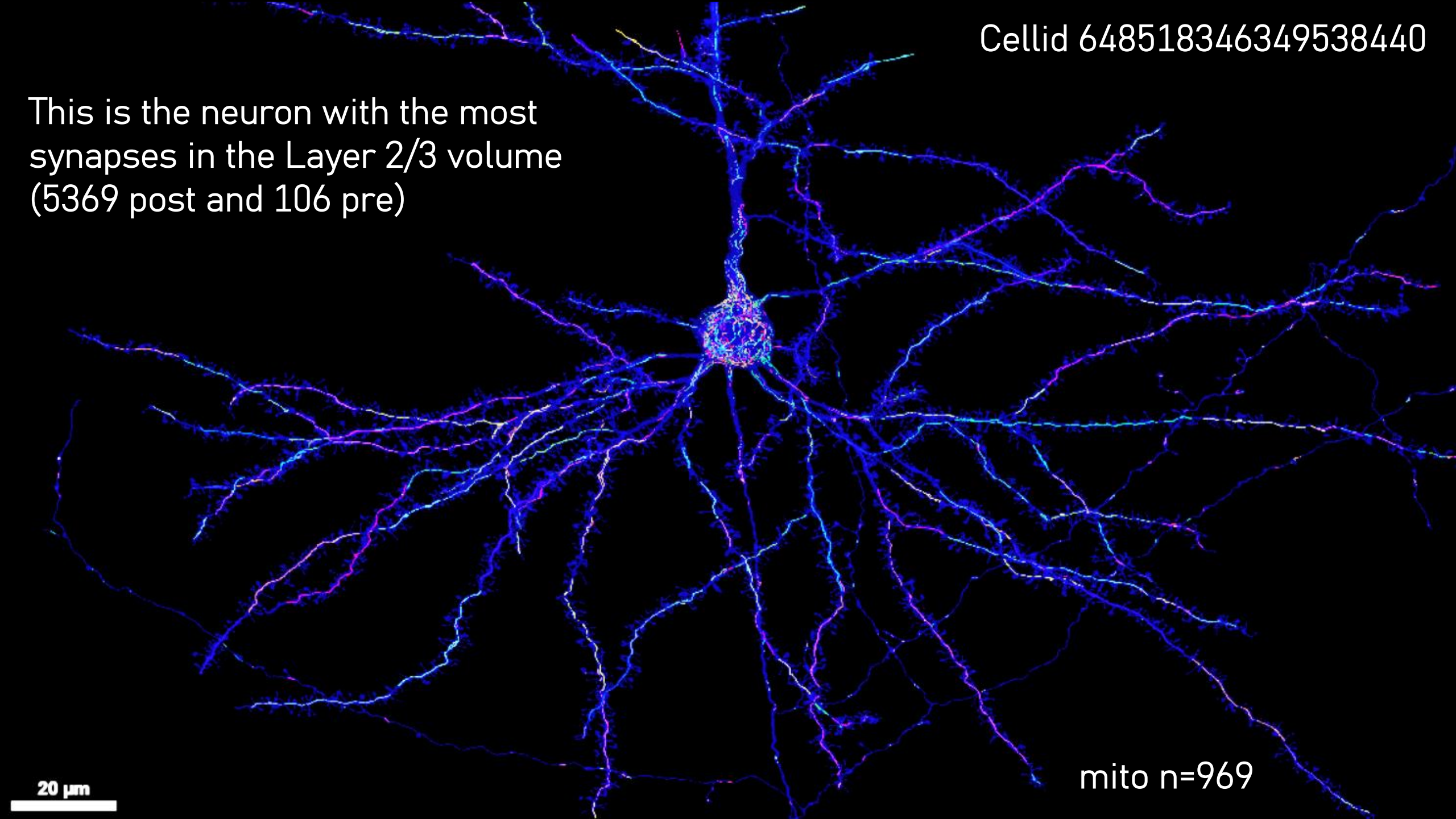

longer mito length in dendrites
Cellid 648518346349538791
smaller mito size in axons
20 µm
mito n=2114

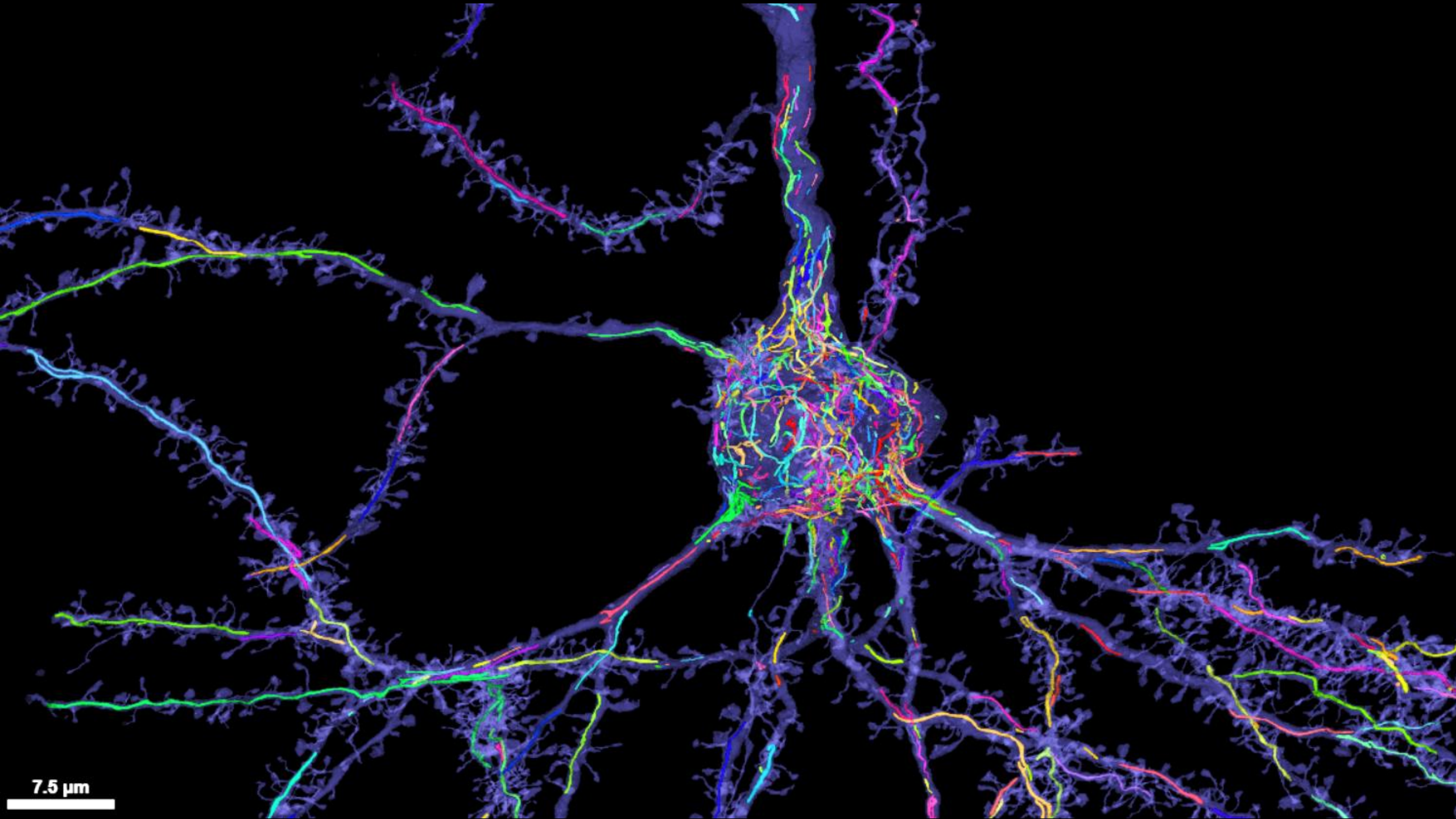

7.5 µm


7.5 µm


neuronal primary cilia
3 µm


neuronal primary cilia
500 nm


Cellid 648518346349538440
This is the neuron with the most synapses in the Layer 2/3 volume (5369 post and 106 pre)
20 µm
mito n=969


7.5 µm

ACKNOWLEDGEMENTS

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CODE AVAILABILITY

- Visit my GitHub repository to view how the images and data in this presentation were generated