

IMAGE PROCESSING

FOR SCIENCE AND FOR FUN

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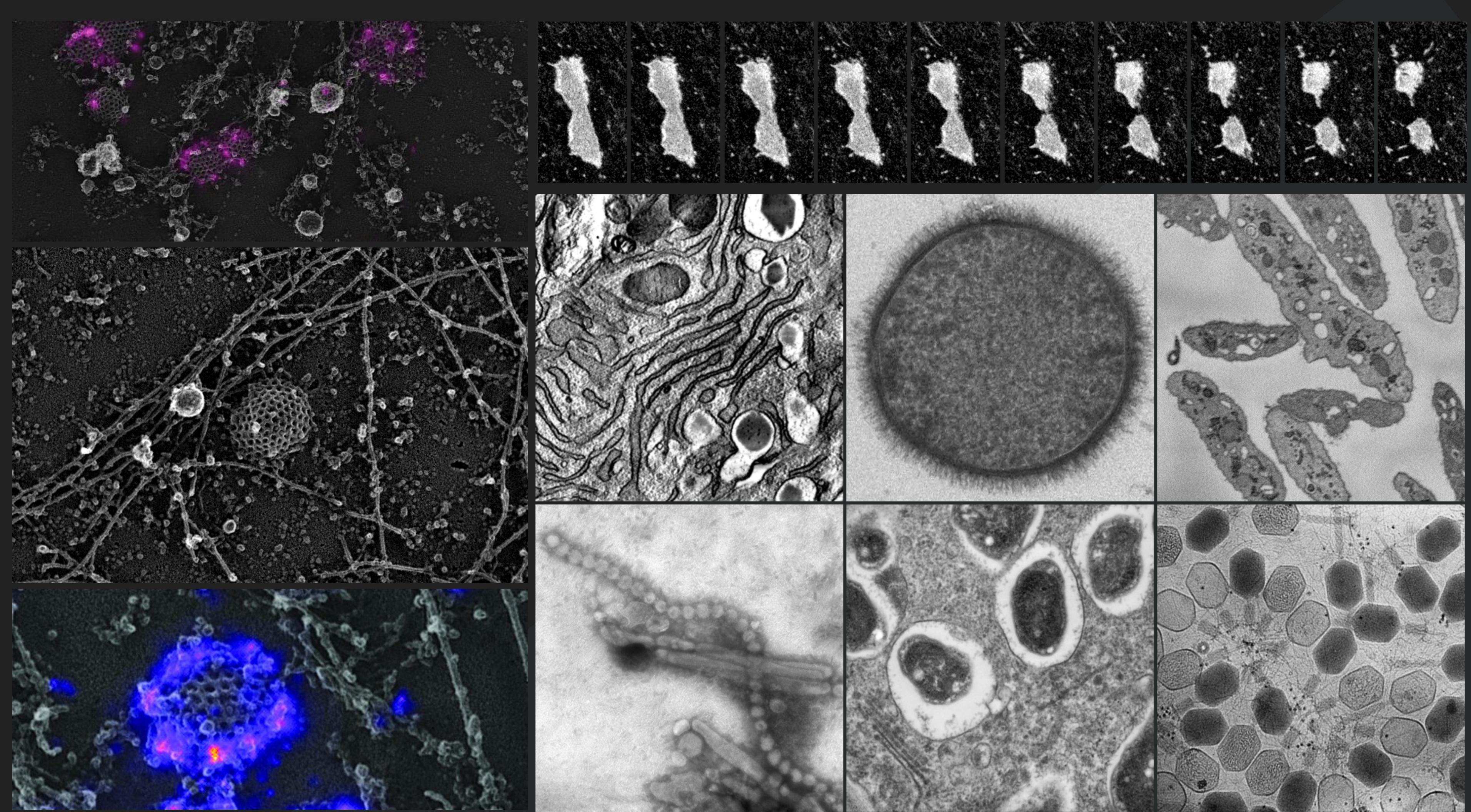
FOR SCIENCE

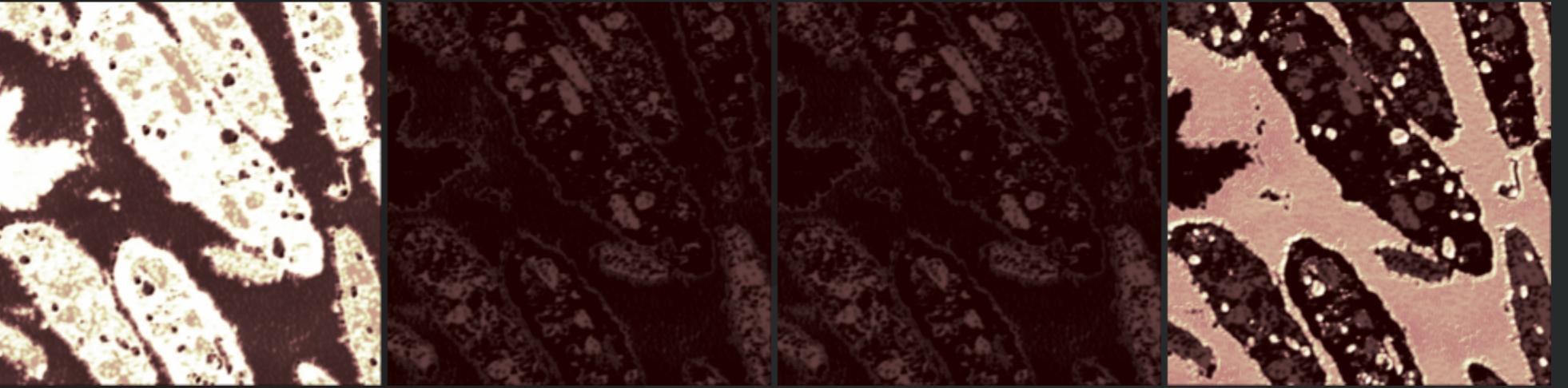
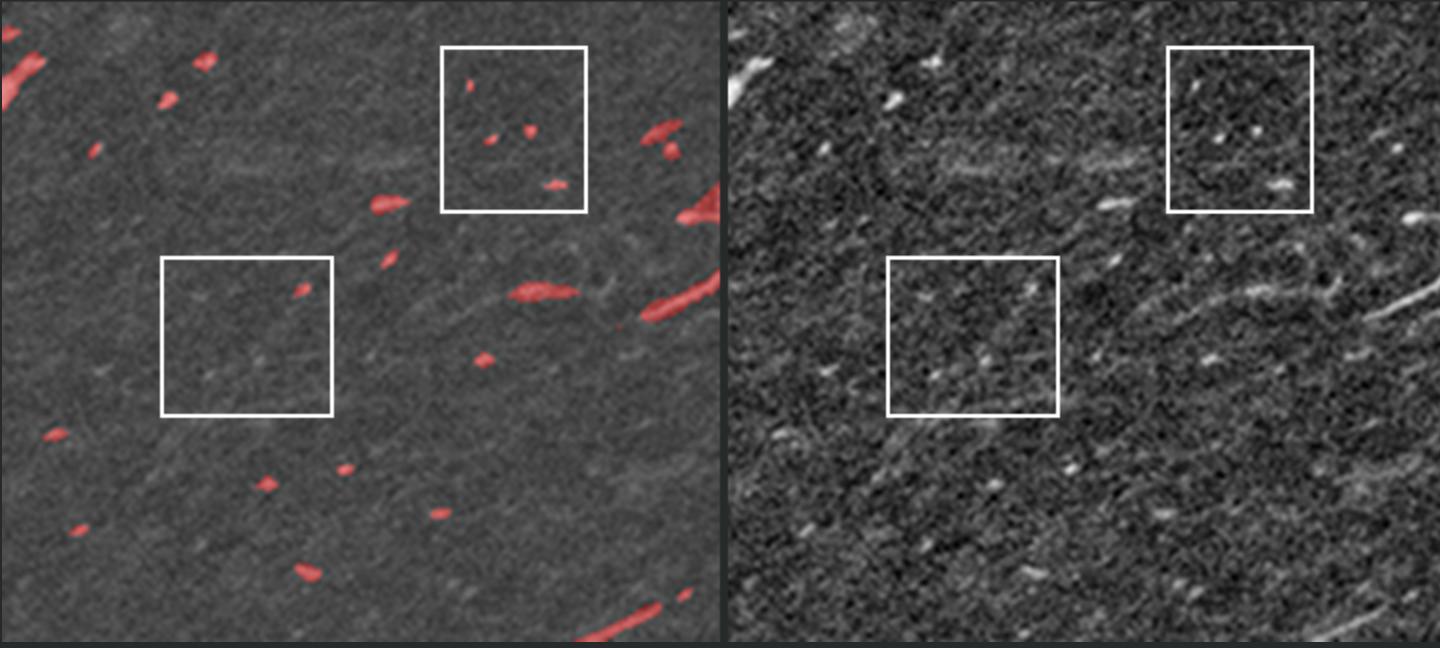
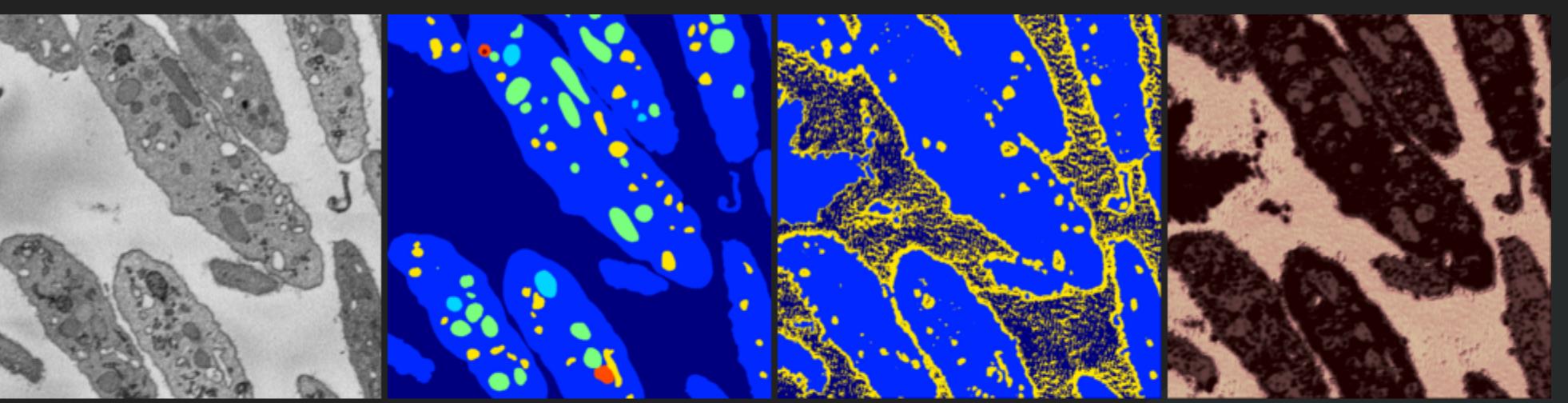
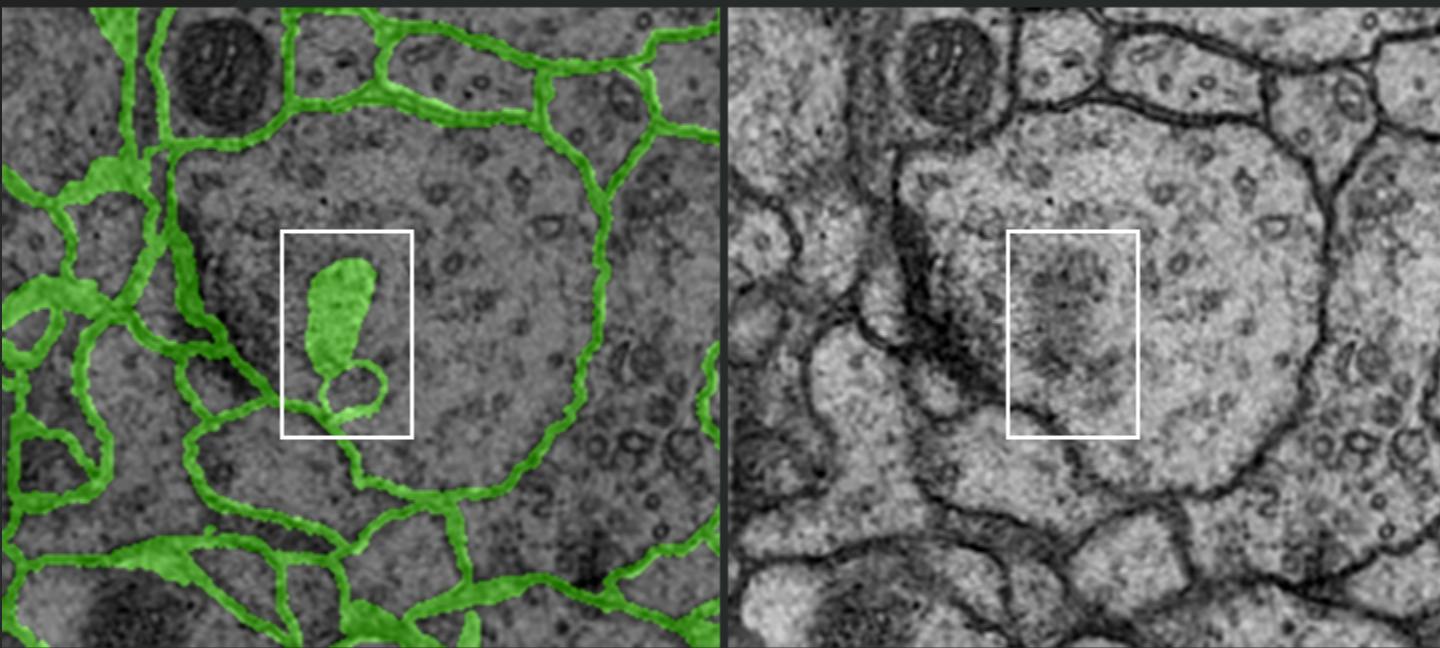
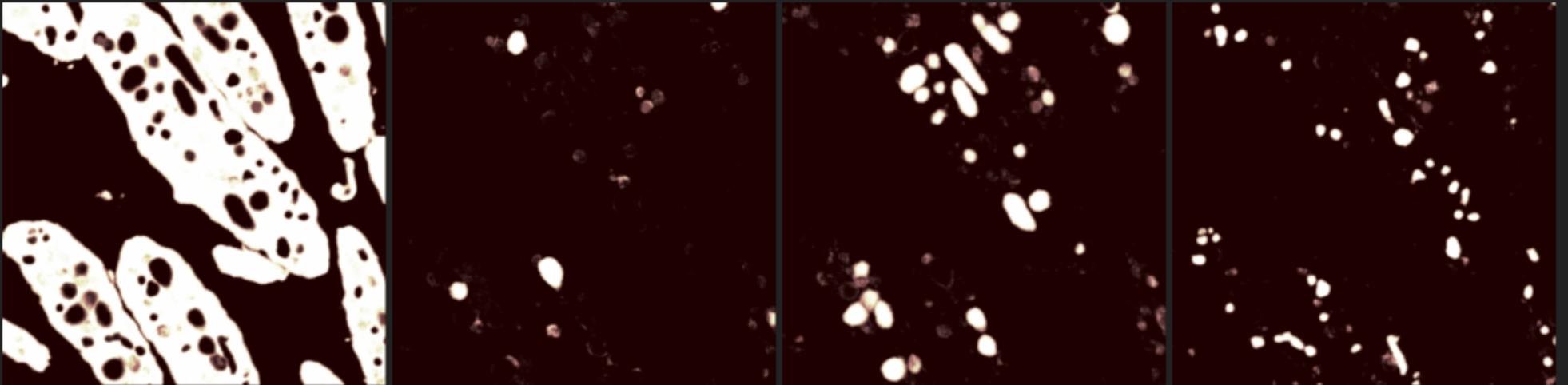
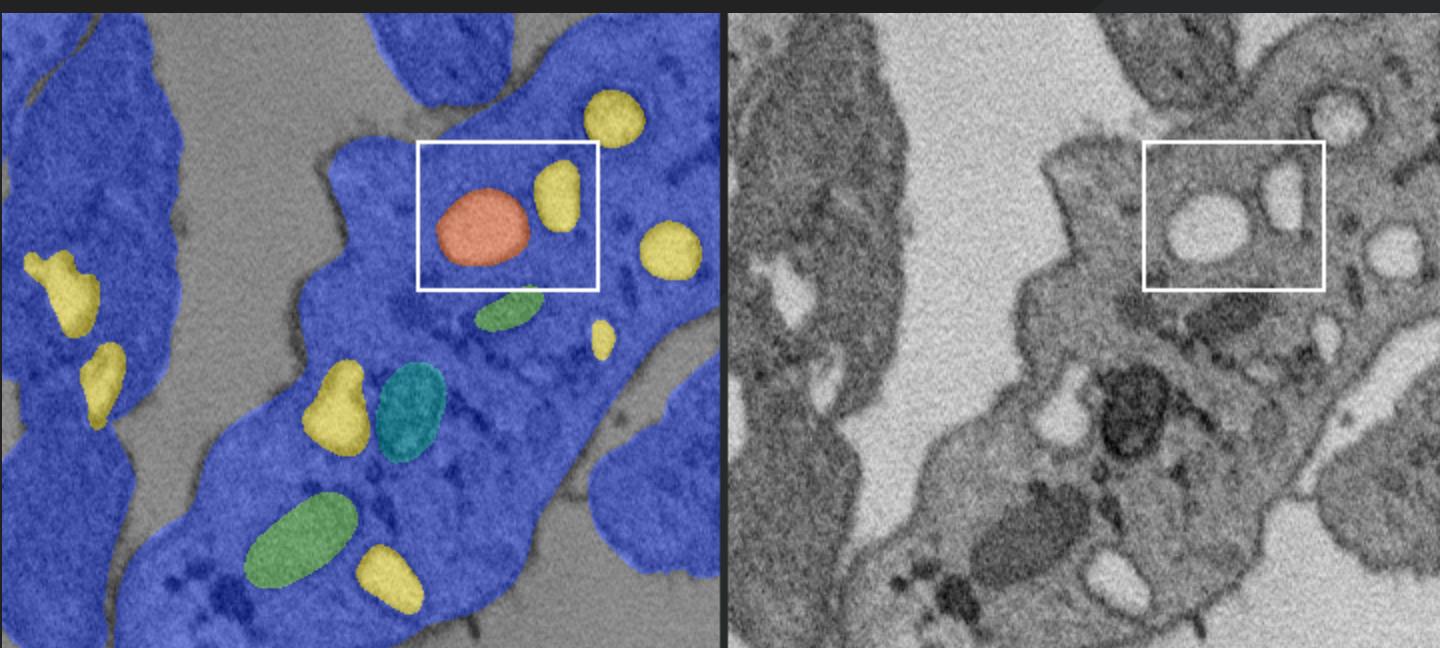
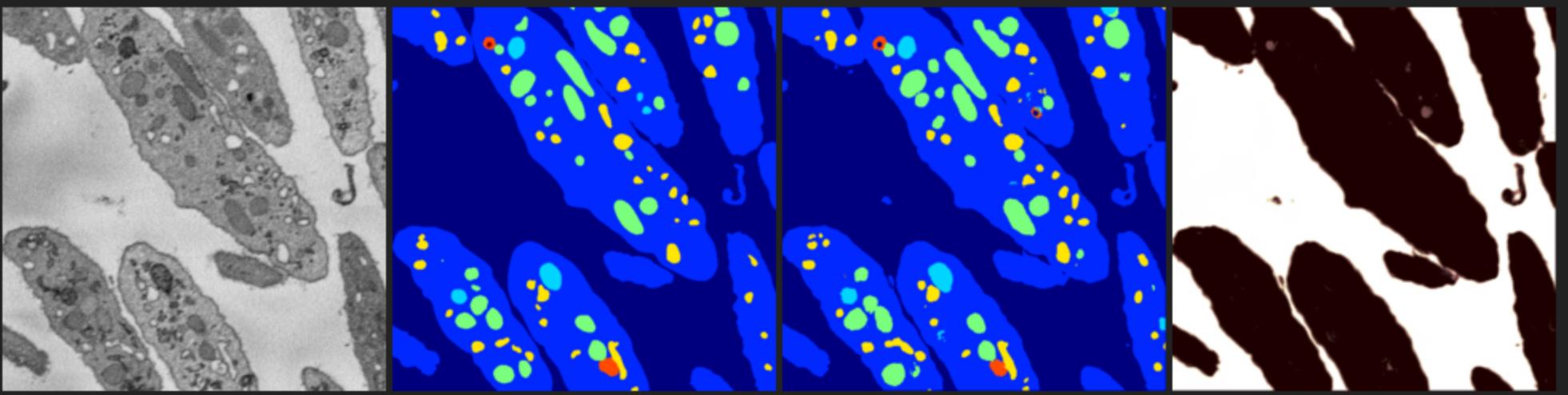
NIBIB - National Institute of Biomedical Imaging and Bioengineering

Use electron microscopy (EM) to image biological matter

Modern EM hardware can produce terabytes / day

Build neural networks to segment structures from images





FOR FUN

Interactive visual art - create dynamic visual designs by interacting with a webpage

Not really games... so what is the point?

What makes sketches engaging and aesthetically pleasing?

Goal: Evolve experience over several minutes with novel elements

I WANT TO LEARN MORE ABOUT

Interactive design in JS + WebGL

Neural video filtering (deep dream, style transfer)

Creating meaningful AR experiences