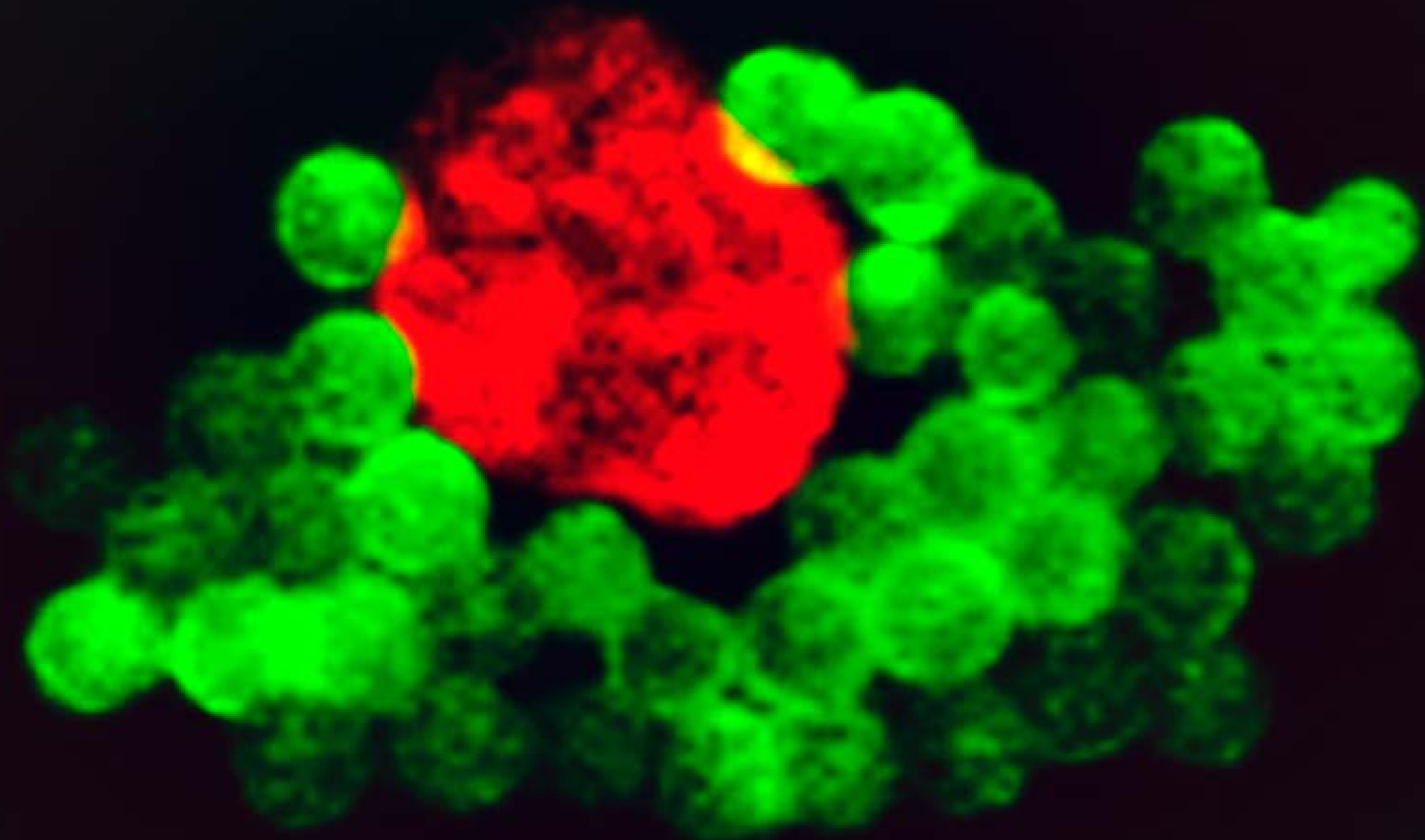
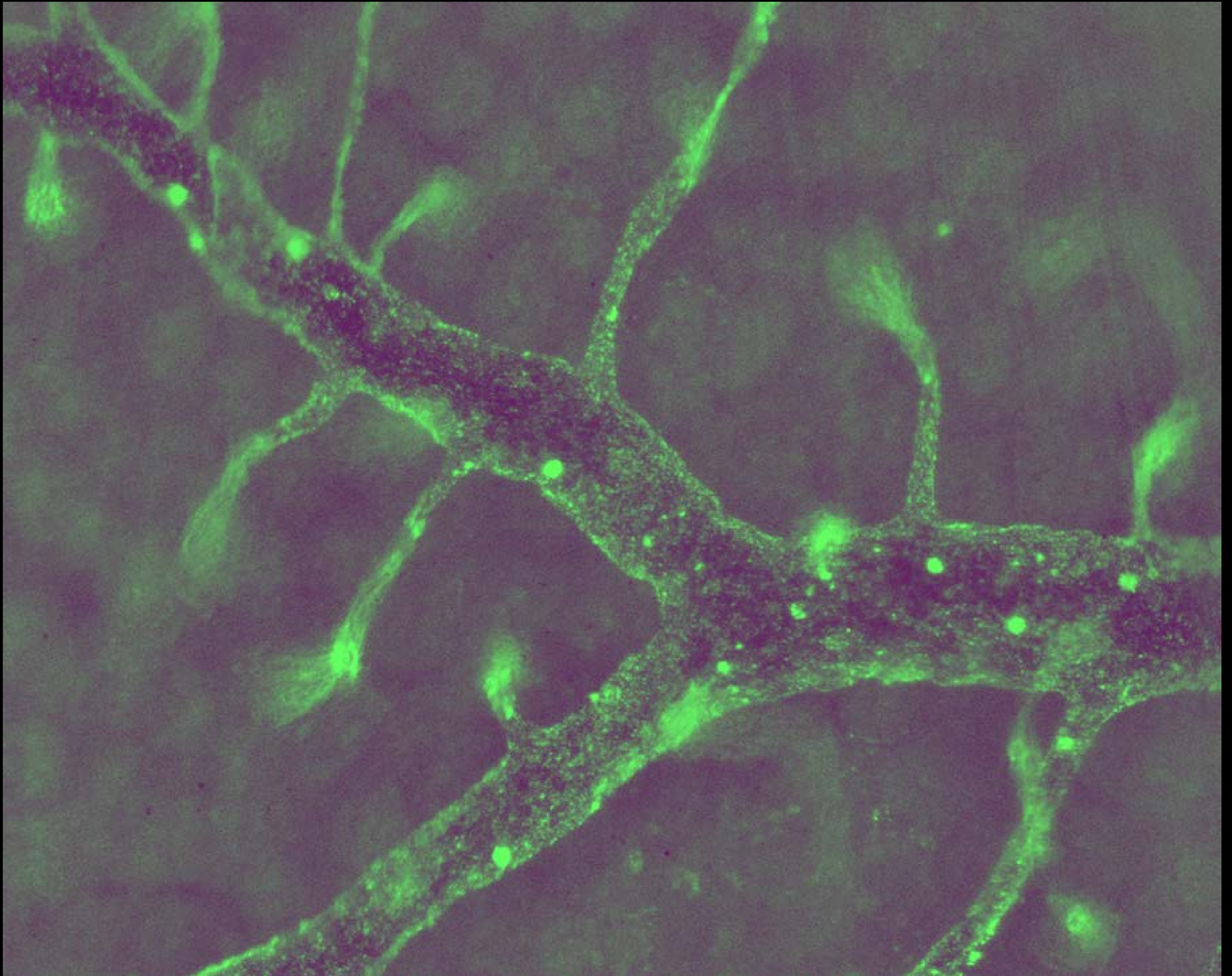


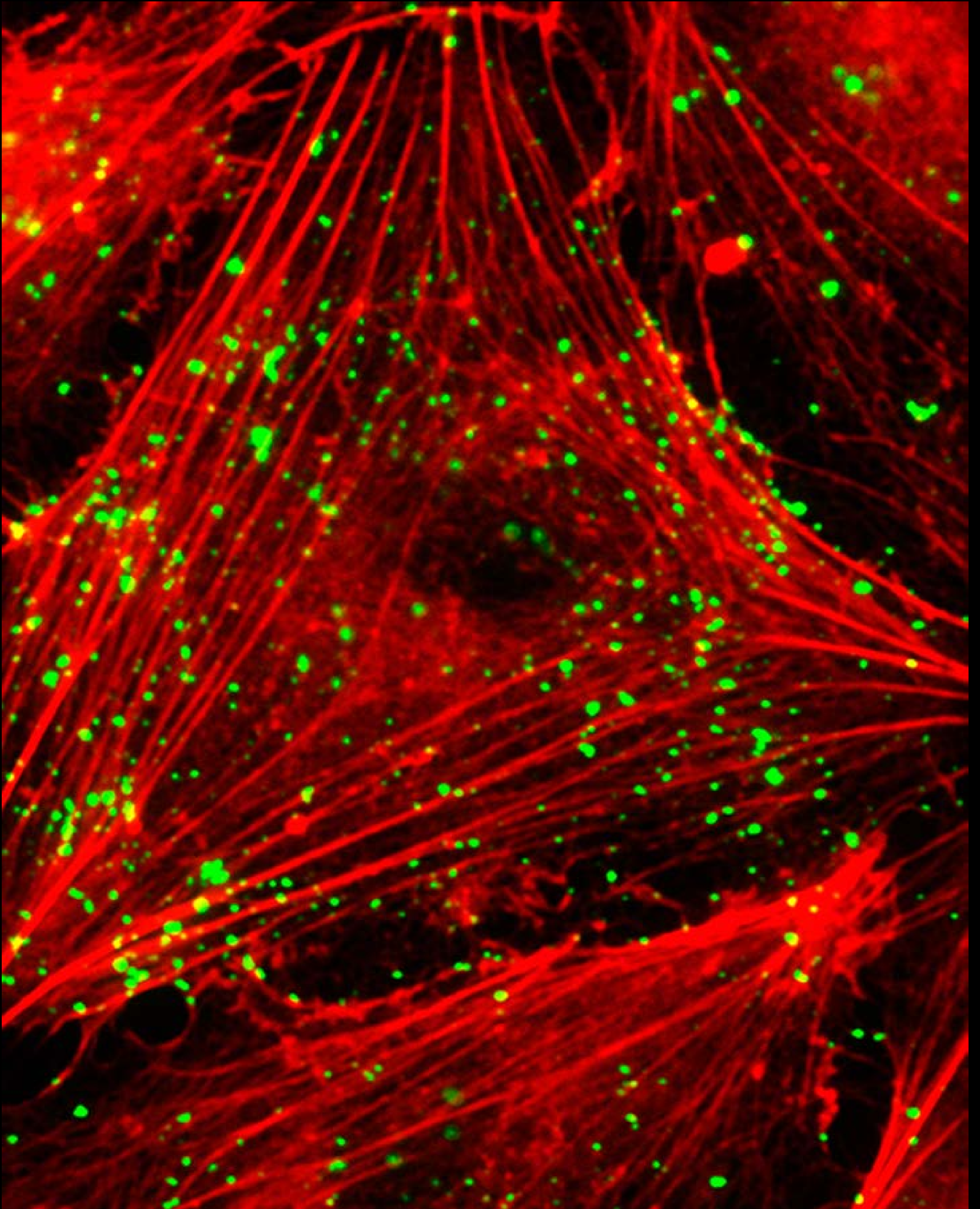
Scanning electron microscopy showing 5 μm diameter drug carriers (green) targeted to a cell surface molecule (ICAM-1). Carriers are bound to (top) or being engulfed by (bottom) the plasma membrane of a human endothelial cell in culture (ochre). Published in *Arterioscler. Thromb. Vasc. Biol.*, 2012. Daniel Serrano and Silvia Muro (University of Maryland, College Park)



Fluorescence microscopy image showing 2 µm diameter drug carriers (green) targeted to cell surface molecule ICAM-1, surrounding the nucleus (red) of a human endothelial cell in culture.
Carmen Garnacho and Silvia Muro (University of Maryland, College Park)



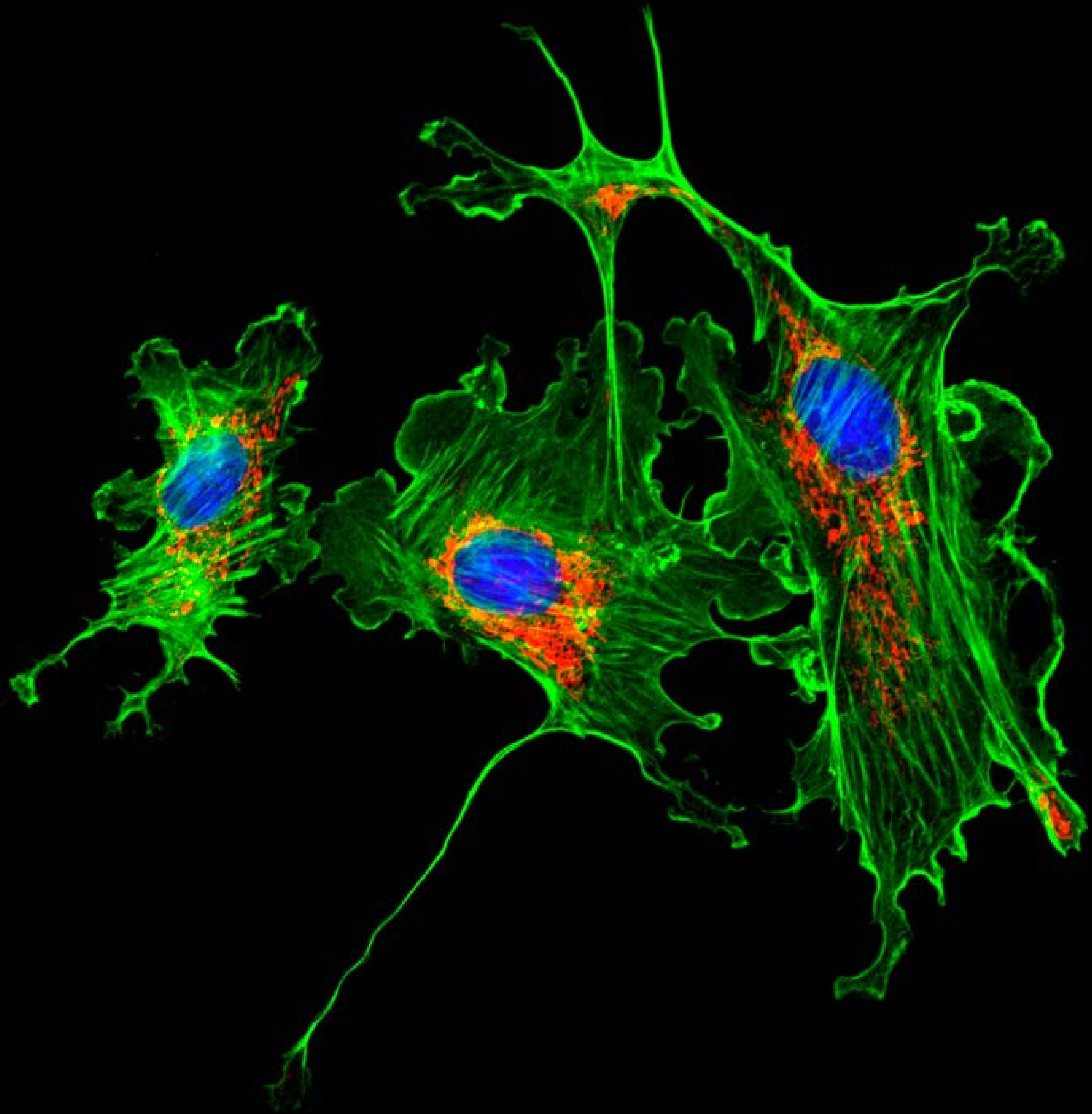
Fluorescence microscopy image showing 100 nm diameter drug carriers (green) targeted to cell surface molecule ICAM-1, bound to endothelial cells lining the inner surface of blood vessels.
Published in J. Pharmacol. Exp. Ther., 2008. Silvia Muro (University of Pennsylvania and University of Maryland)



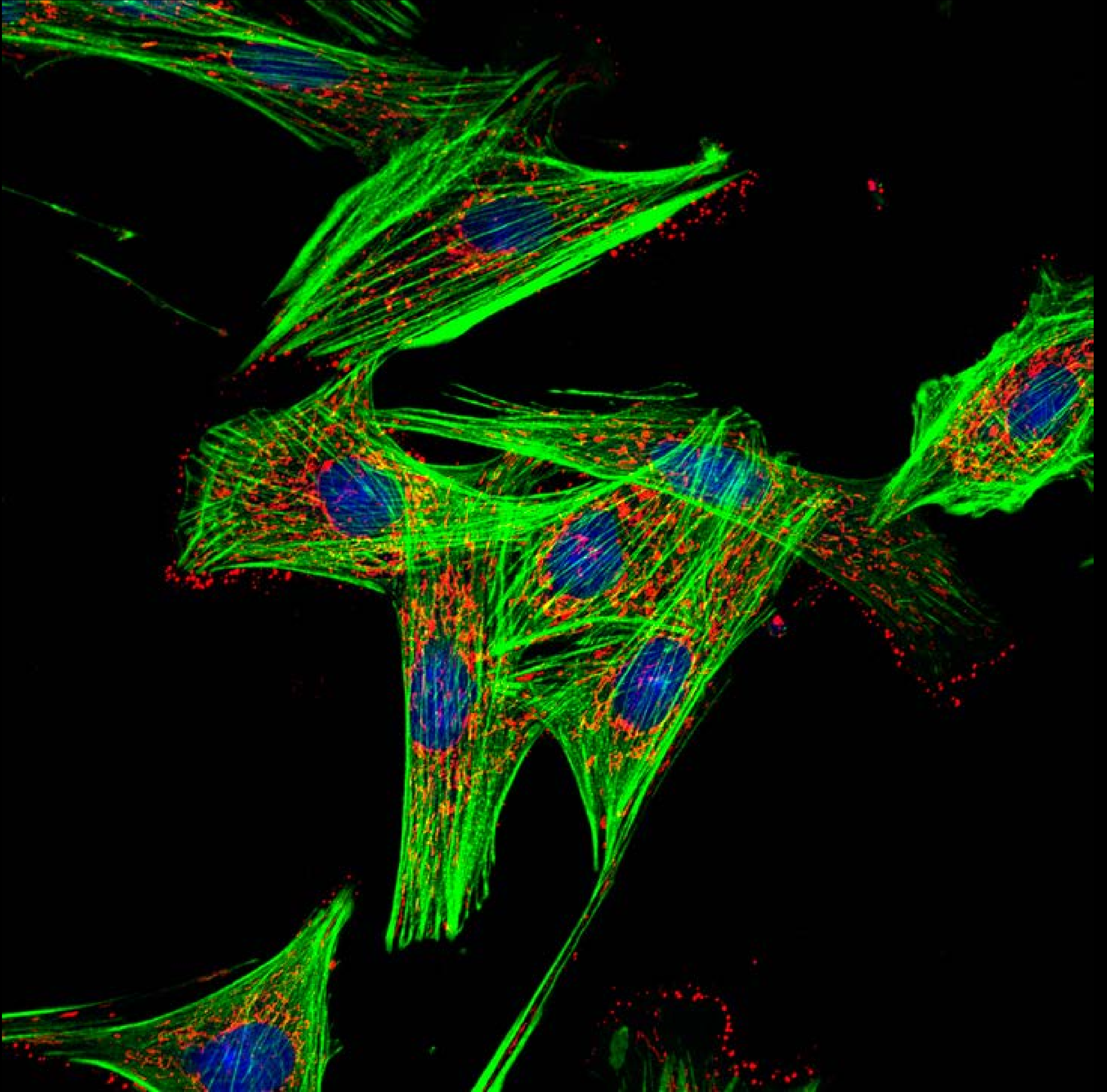
Fluorescence microscopy image showing 100 nm diameter drug carriers (green) targeted to cell surface molecule ICAM-1, in association with actin filaments (red) of human endothelial cells in culture. Silvia Muro and Vladimir Muzykantov (University of Pennsylvania and University of Maryland)



Confocal fluorescence imaging of mouse brain.
Hengchang Guo and Jian Zhong (Cornell Medical School)



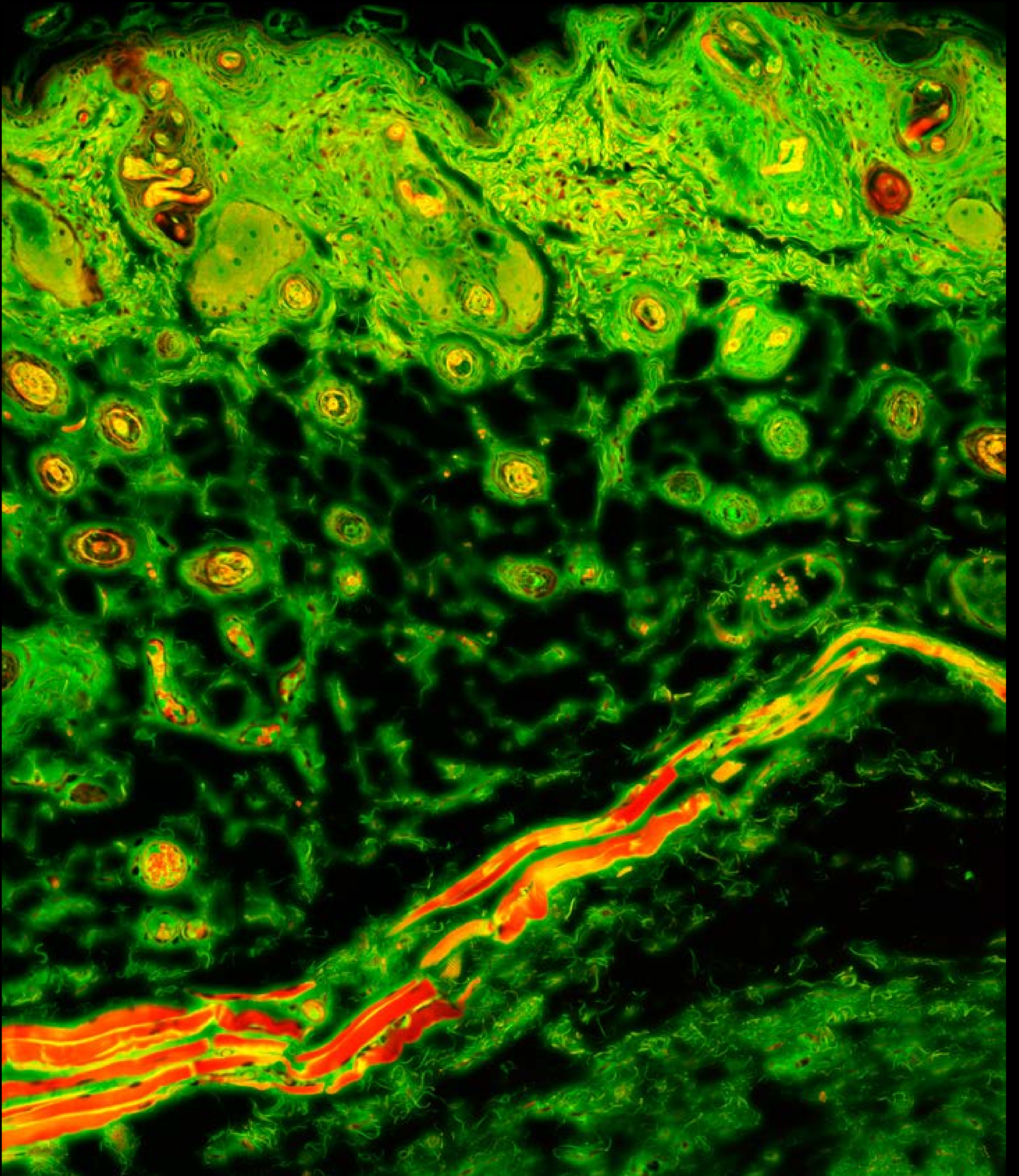
Confocal fluorescence imaging of bovine pulmonary artery endothelial cells. Mitochondria were labeled with red-color. F-actin was labeled with green-color, and blue-color was used to label the nuclei. Hengchang Guo and Yu Chen (University of Maryland, College Park)



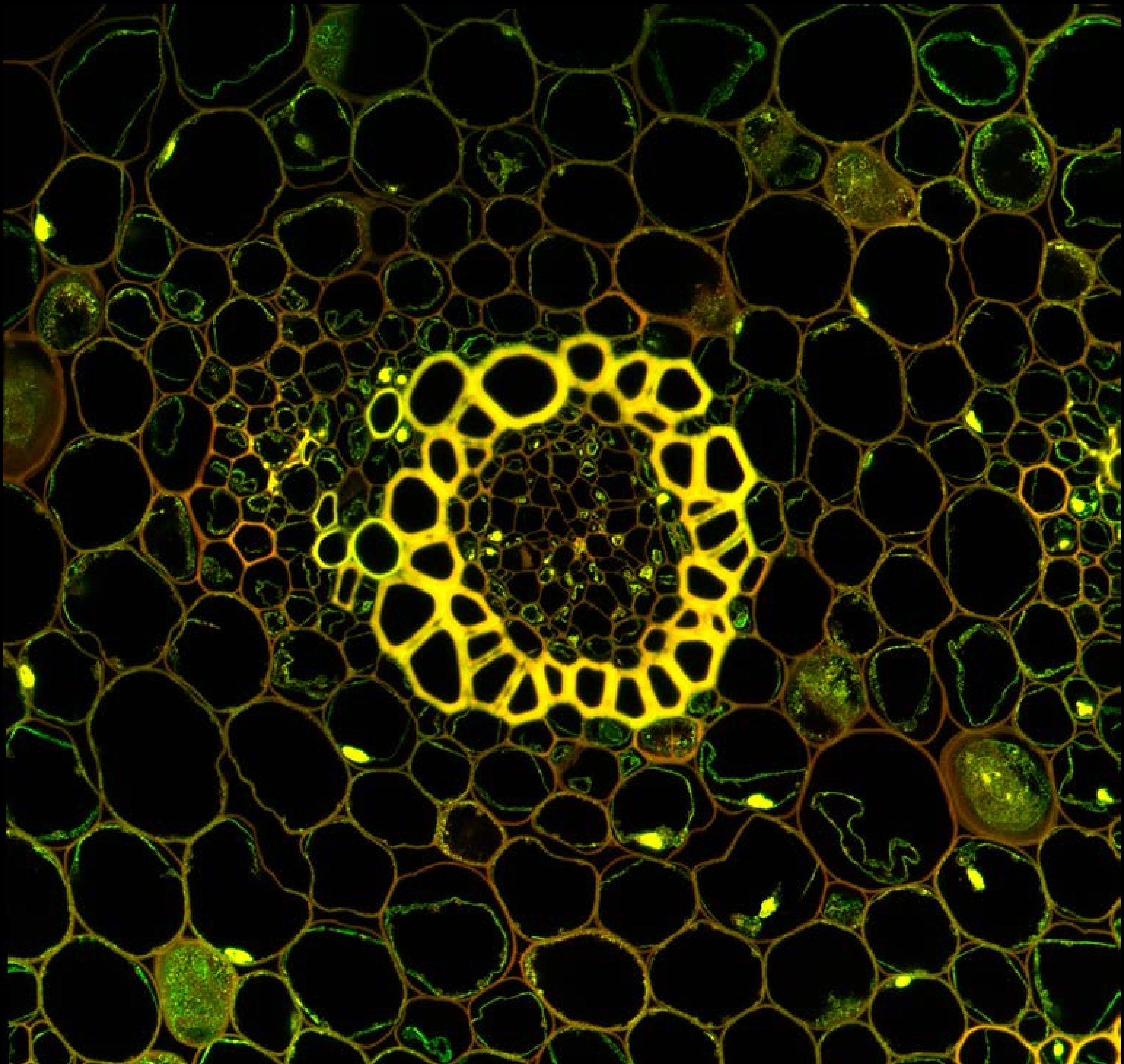
Confocal fluorescence imaging of muntjac skin fibroblast cells. The prominent filamentous actin was labeled with green-color. Mitochondria were labeled with red-color. Nuclei were labeled with the far-red fluorescent dye and pseudo-colored in blue. Hengchang Guo and Yu Chen (University of Maryland, College Park)



Confocal imaging of brine shrimp.
Hengchang Guo and Yu Chen (University of Maryland, College Park)



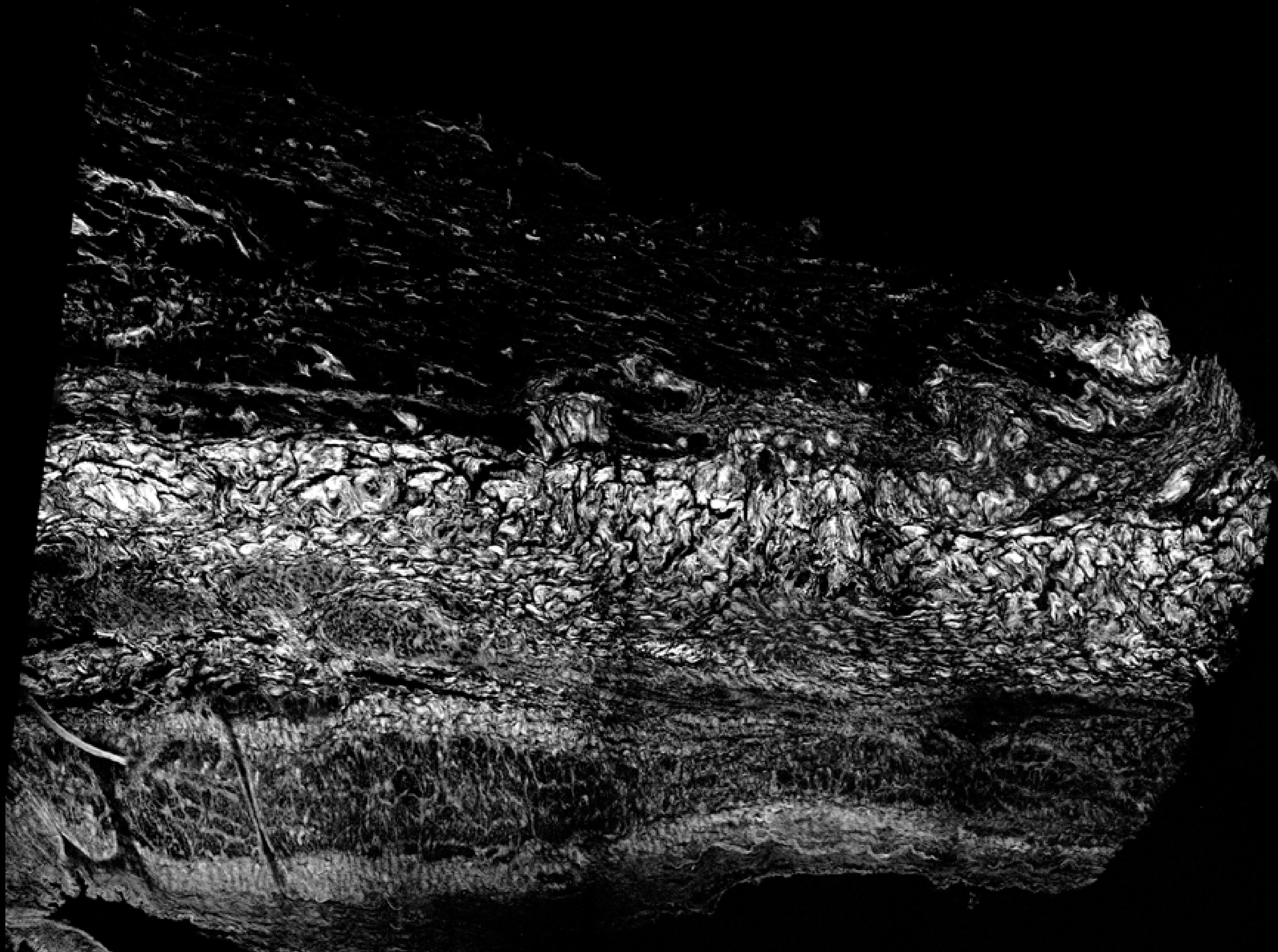
Confocal imaging of mouse skin.
Hengchang Guo and Yu Chen (University of Maryland, College Park)



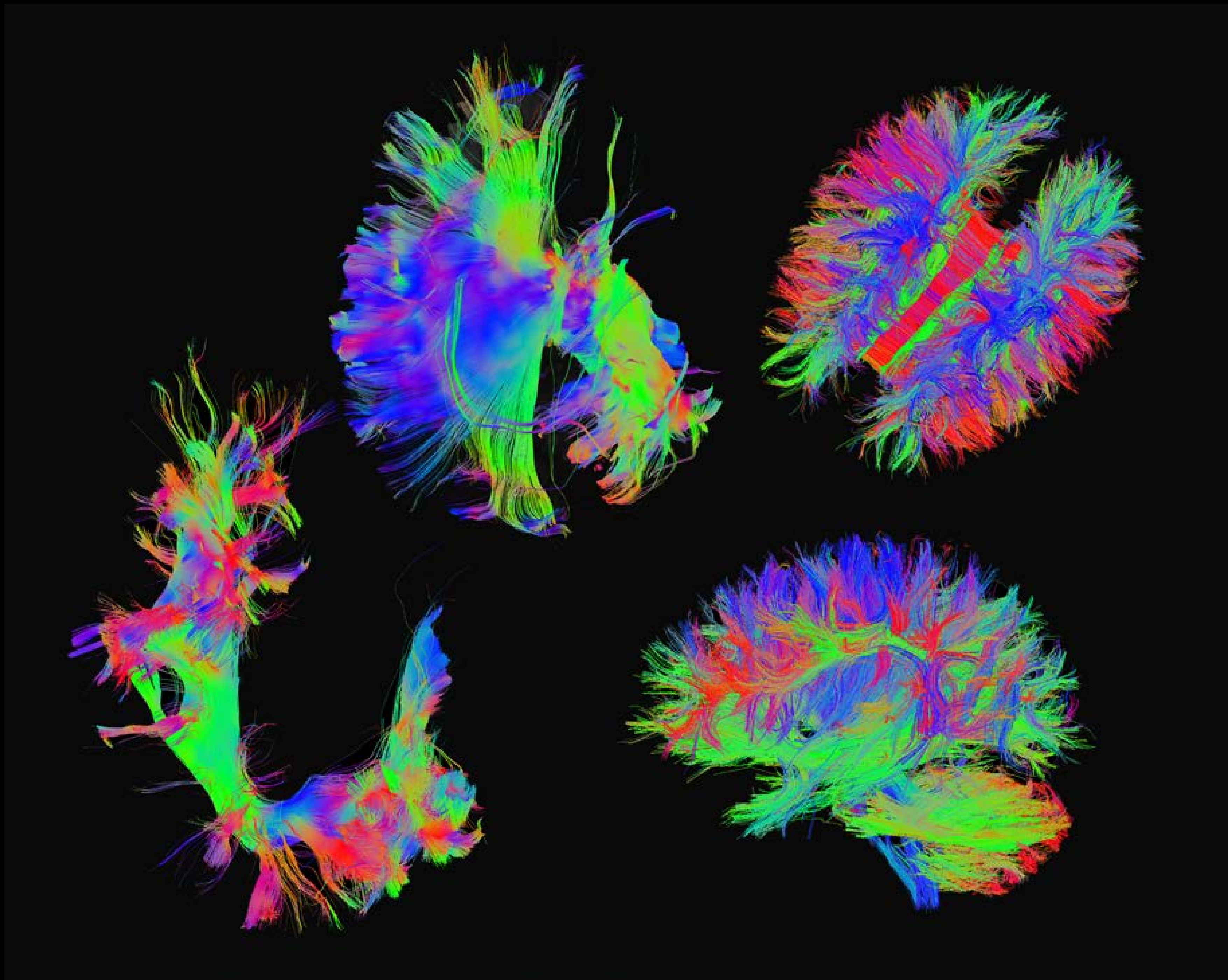
Confocal fluorescence imaging of transverse section of *Convallaria majalis* (lily of the valley) stem shows cell walls and starch granules.
Hengchang Guo and Yu Chen (University of Maryland, College Park)



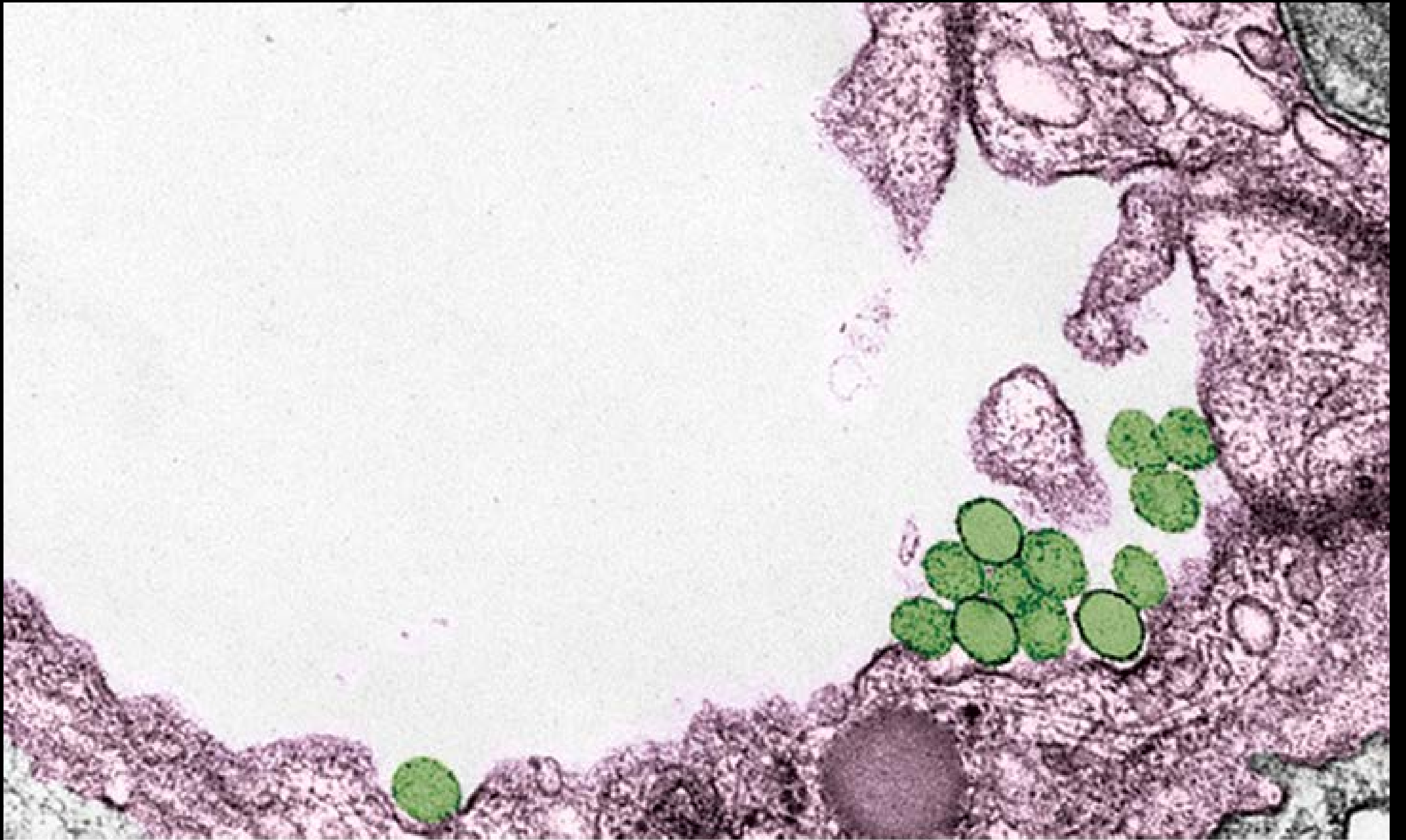
Two-photon fluorescence imaging of transverse section of *Convallaria majalis* (lily of the valley) stem shows cell walls and starch granules.
Hengchang Guo and Yu Chen (University of Maryland, College Park)



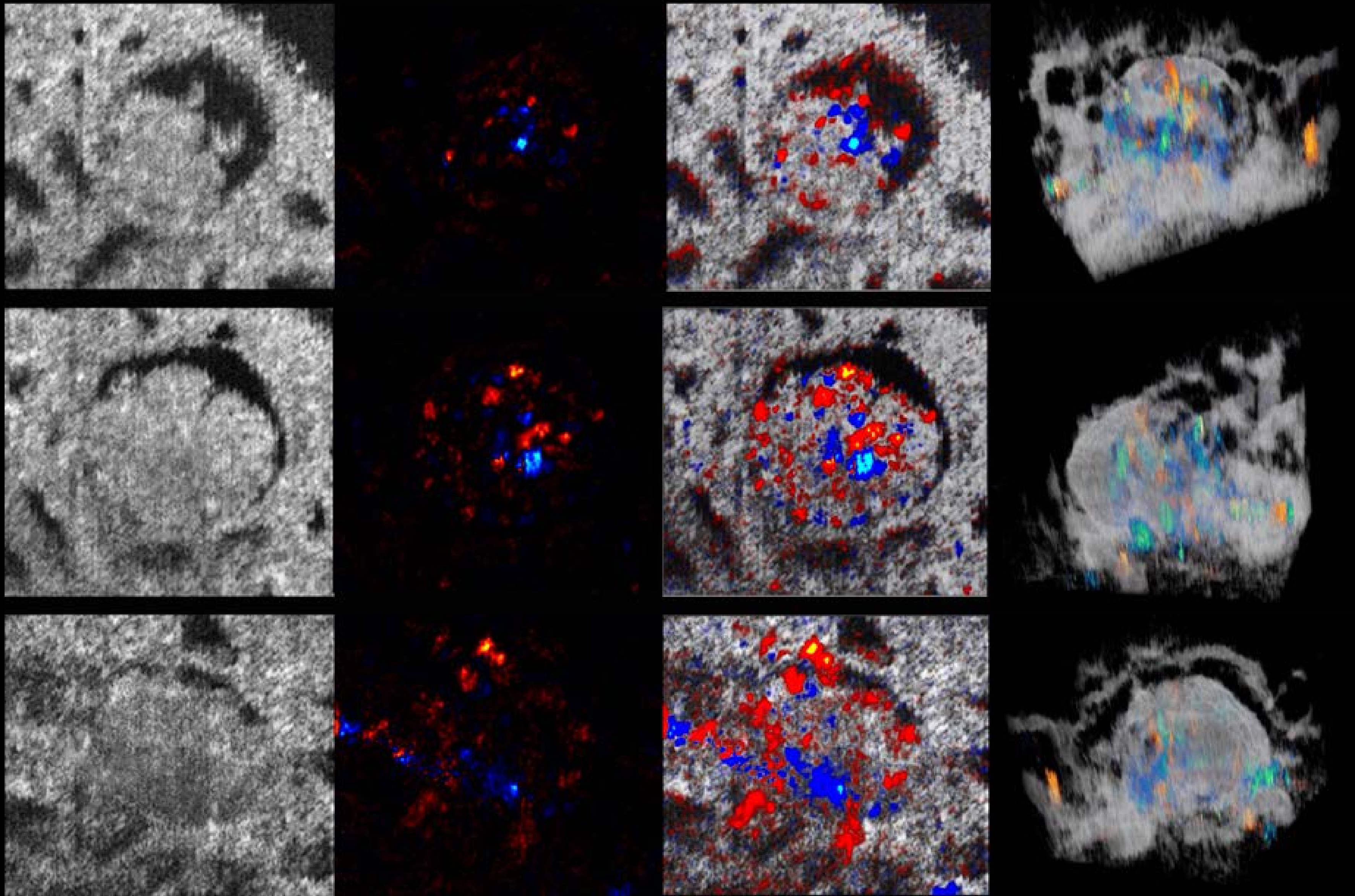
Second-harmonic generation (SHG) imaging of cow cardiac tissues.
Hengchang Guo and Yu Chen (University of Maryland, College Park)



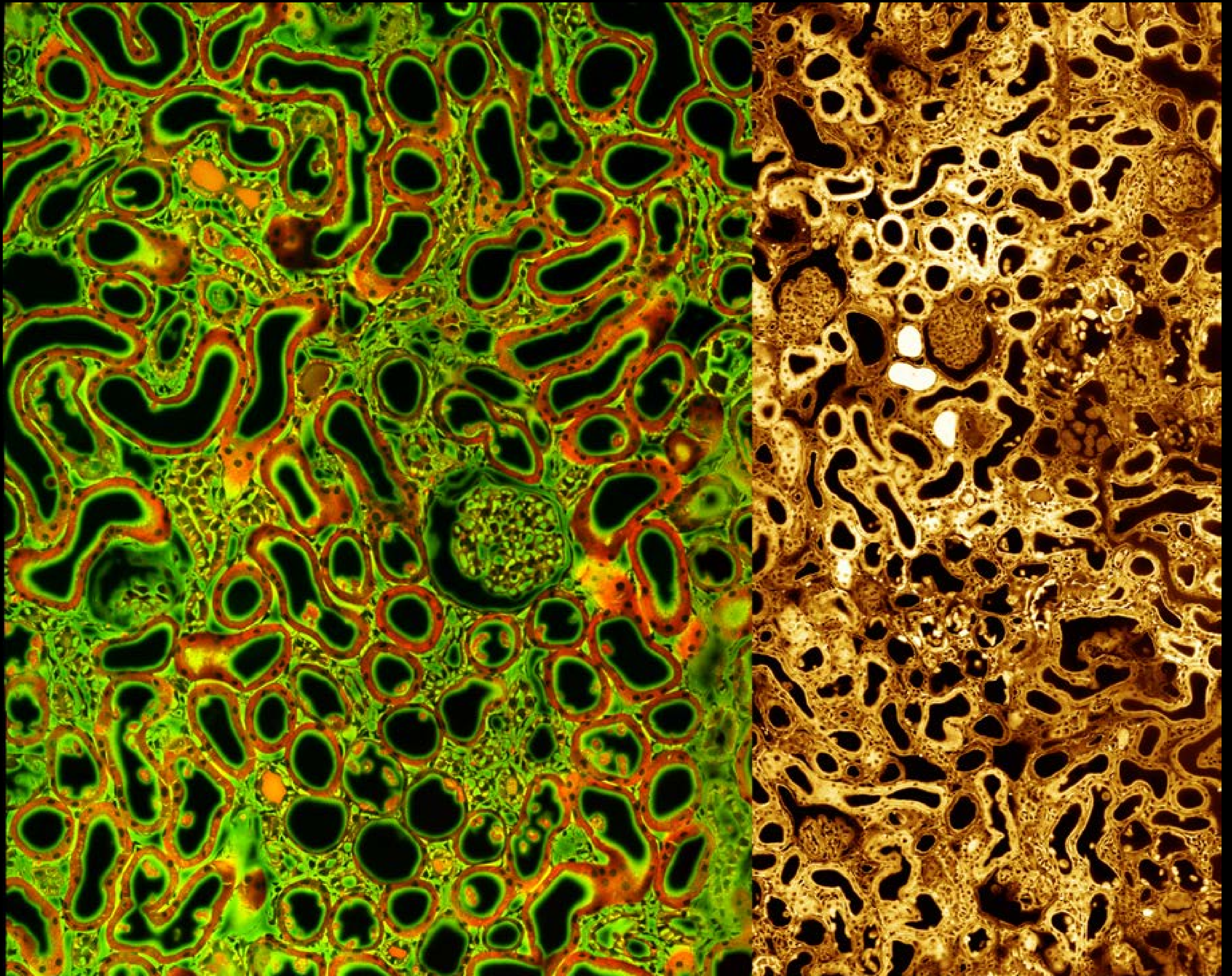
Left Two: Axon tracks of a human brain imaged by diffusion spectrum imaging (DSI) tractography implemented for Siemens Trio 3 Tesla Magnetic Resonance Imaging (MRI) scanner at Maryland Neuroimaging Center. Images provided by Wang Zhan (University of Maryland, College Park). Right Two: White matter fiber tracks in the brain reconstructed from the Diffusion Tensor MR Imaging. Images provided by Jiachen Zhuo and Rao Gullapalli (University of Maryland, Baltimore)



Transmission electron microscopy images showing 100 nm diameter drug carriers (green) targeted to a cell surface molecule (ICAM-1). Carriers are bound to (top) or internalized within (bottom) pulmonary endothelia cells (purple) after intravenous injection in a mouse. Published in J. Control. Release., 149:323-31 (2011). Tridib Bhowmick and Silvia Muro (University of Maryland, College Park)



Optical coherence tomography (OCT) imaging of living rat kidney glomerular structure and blood flow. From left to right: Column 1 - OCT images of glomerulus and tubules at depths of 440 μm , 470 μm , and 545 μm ; Column 2 - Corresponding blood flow image; Column 3 - Overlaid image; Column 4 - 3D view. Published in Laboratory Investigation, 91, 1596-1604 (2011). Jeremiah Wierwille, Chao-Wei Chen, Hengchang Guo, Yu Chen (University of Maryland, College Park) and Peter Andrews (Georgetown University)



Confocal (left) and Two-photon (right) imaging of kidney shows high-resolution renal microanatomy such as tubules, blood vessels, and glomeruli.
Hengchang Guo and Yu Chen (University of Maryland, College Park)