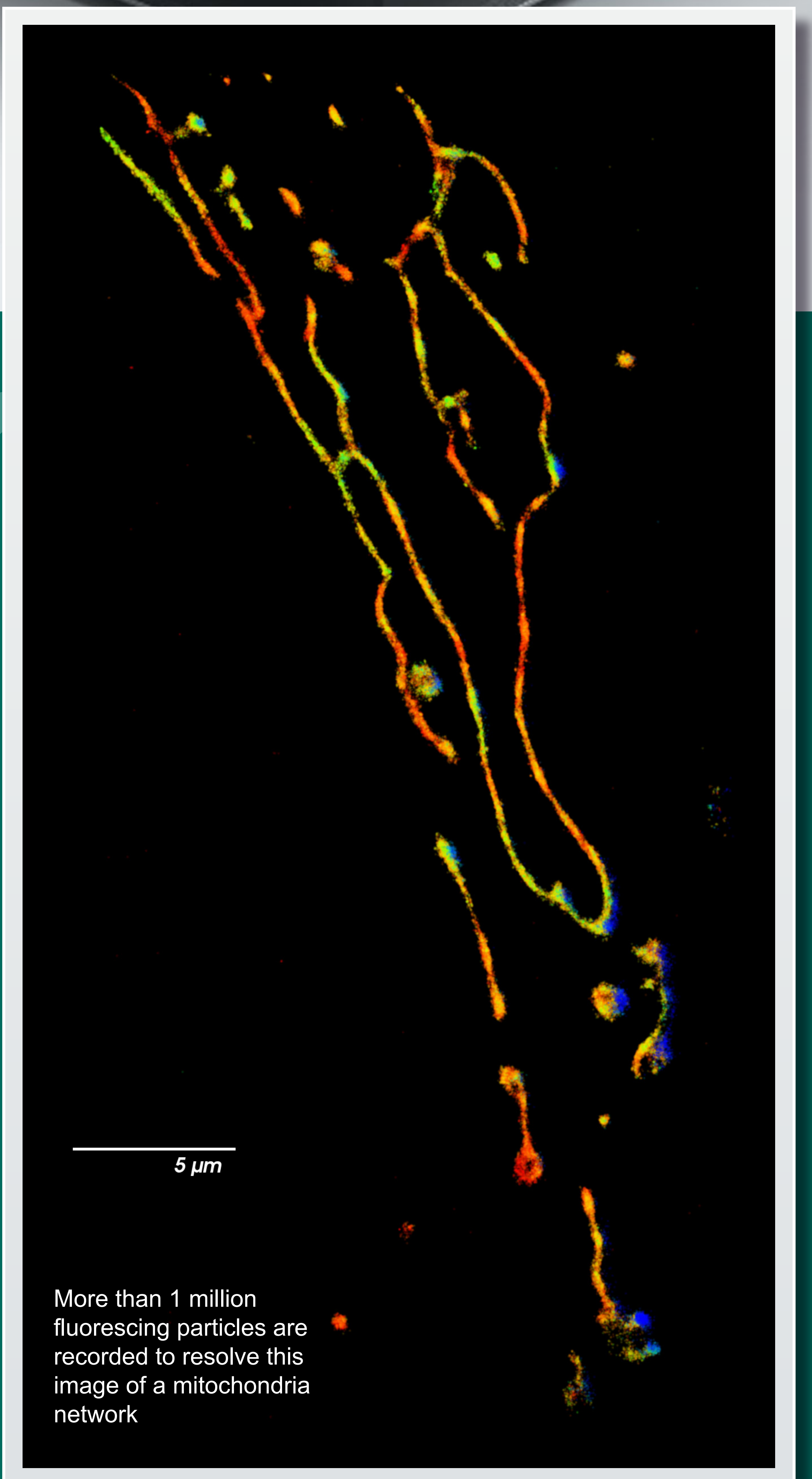


Headquartered in Salt Lake City, Utah, Vutara enables researchers to study the structures and processes of cells at the single molecule level by delivering the first ever super-resolution, single-molecule localization microscope with 3D capability. Vutara aims to serve as the trusted resource for laboratories and investigators who want to introduce super-resolution microscopy into their research projects.

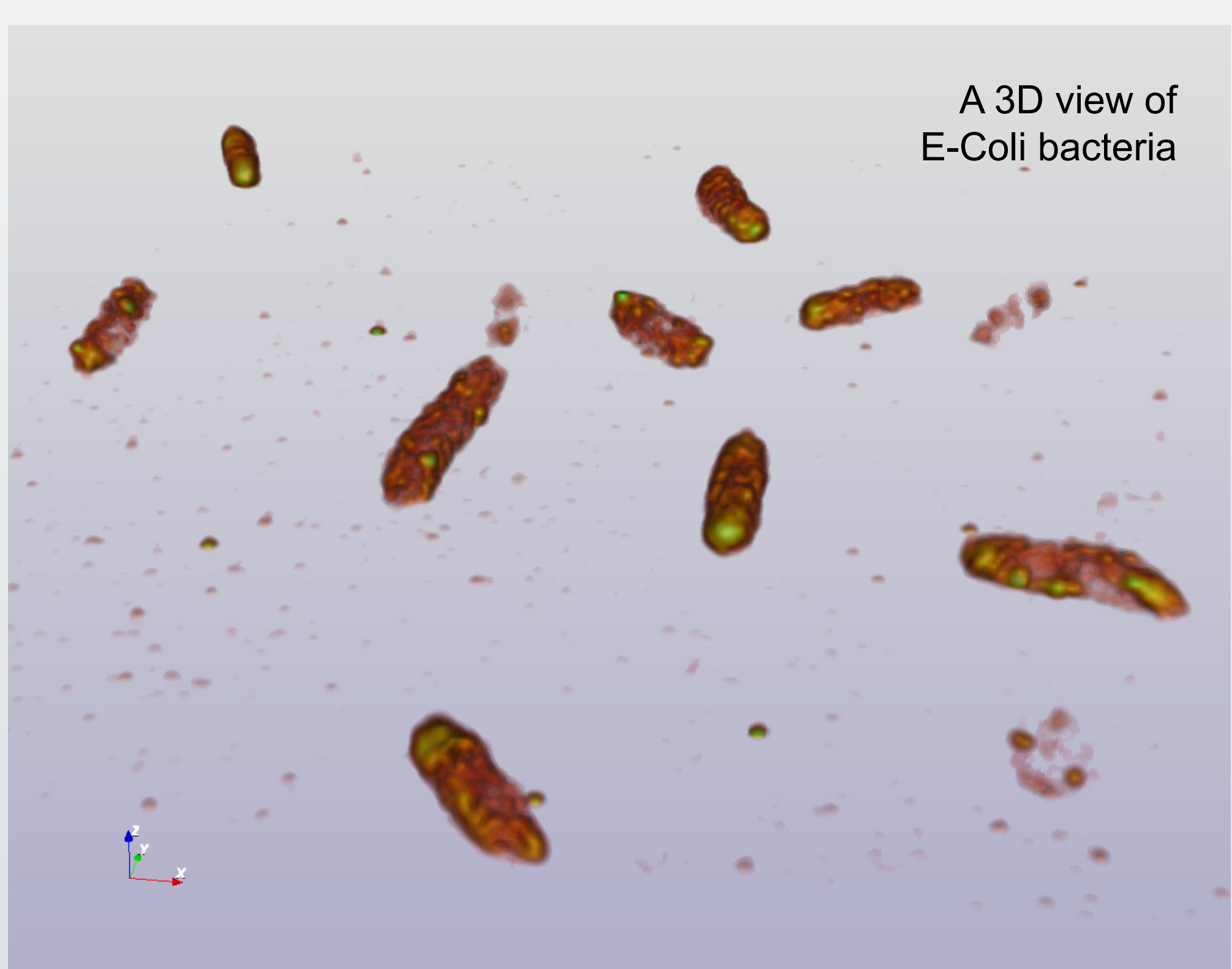


The diffraction limit of optical microscopy limits the optical resolution of far-field optical microscopes to one-half the wavelength of light used for illumination (about 250nm). Single molecules involved in a myriad of cell processes are typically two orders of magnitude smaller than the resolving power of the best conventional optical microscopes, and so the details of structure, interaction, binding, trafficking, and so on, have remained largely invisible. Super-resolution makes it possible at last to break the diffraction limit.

The Vutara® SR-200 is the only purpose-built super-resolution microscope available – designed from the ground up for this advanced imaging modality. Using Bi-Plane Fluorescence PhotoActivation Localization Microscopy (FPALM), the Vutara® SR-200 is able to capture 3D images of subcellular structures by achieving a lateral resolution of 20 nm and axial resolution of 50 nm.



A 3D view of E-Coli bacteria



A network of microtubules that are 25 nm in diameter

