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Biography:

I got my Ph.D in 1996 with the joined training from Peking University and New York University School of Medicine. In 2005, I was appointed as the inaugural Director of the Electron Microscopy Core at Skirball Institute of NYU School of Medicine, to provide for the first time, electron microscopy services to the research community in NYU. As this Core evolved over the years, its name changed to Microscopy Core to provide both light and electron microscopy services. As the director of a research driven Microscopy Laboratory and a Research Professor of Cell Biology, with a broad background in cell biology, plus specific training and expertise in microscopy especially electron microscopy, we not only provide microscopy education services and imaging instruments to the research community, but also take on each incoming topic as our own research project, especially for those projects involved transmission electron microscopy, scanning electron microscopy, immune-electron microscopy, volume electron microscopy and correlative light and electron microscopy. We design every experiment to accommodate the imaging needs of each research lab, and we help educate the research community by introducing them to the new imaging technologies and methodologies. Our electron microscopy pictures have been published prominently on the *Cell Online Picture Show*, in textbooks (Immunology 5th edition, 2012, TEM image and Microbiology 3e by Slonczewski/Foster, 2013, SEM image), and on New York Times (negative staining images, 2013). I was awarded in 2013 and 2020 “The Diatome U.S. First and Second Place” in Microscopy Society of America for excellent electron microscopy work, and 2015 NIH S10 grant for a 3View Scanning electron microscope. I am also elected as Biology Director in Microscopy Society of American in 2022. Two full-time EM specialists and three LM experts work under my direct supervision in the Microscopy Laboratory to provide microscopy services to more than 190 NYU laboratories and 50 external academic institutes or industry research groups.

Research Interests and Presentation Topics:

1. Challenges and advancement in sample preparation for TEM, SEM, ImmunoEM, volumeEM and CLEM.
2. Application of EM in biomedical research.
3. Workflow and management of Microscopy Core.
4. Education and training for young electron microscopists.
5. Microscopy education to research community.