

The Resolution Revolution in Cryo-EM: How did it happen and its applications in biomedicine

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In recent years there has been a “Resolution Revolution” in EM under cryogenic conditions (cryoEM) fueled by synergetic developments in instrumentation, methodology and computing, reaching goals and resolutions unimaginable just a few years ago. These exciting technological developments has permitted important and challenging structures both inside and outside cells to be determined. I will give an overview of how the “Resolution Revolution” in cryoEM happened and how it is being used to solve important problems in biology and medicine, focusing primarily on work from my group on chromatin and telomere structure.