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Atomic Force Microscopy is the most important technique used in the biomedical applications, but it cannot compete with the traditional electron microscopy and confocal microscopy because of speeds at which later techniques capture the images (Haupt, Pelling and Horton, 2006).

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Biomedical imaging is also interconnected with other areas of BME, providing in vitro and in vivo tools to evaluate biomaterials, validate systems biology models, monitor drug delivery, and map biomechanical properties. ... Prof. Warren Zipfel s lab develops and applies novel methods of fluorescence microscopy and bioanalytical techniques. He ...

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1. Ital J Anat Embryol. 2001;106(2 Suppl 1):3-8. Atomic force microscopy and its related techniques in biomedicine. Ushiki T(1). Author information: (1)Department of Anatomy and Histology, Faculty of Medicine, Niigata University, Japan. t-ushiki@med.niigata-u.ac.jp The atomic force microscope (AFM), invented in 1986, is a new instrument which provides three-dimensional surface images of ...

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