

SR Biomedical Imaging 2004-2007: Opening New Doors

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Biomedical imaging with synchrotron radiation has shown a rapid development in the past years. Thanks to technical developments, both in the instrumentation and in the image processing, but also to the growing interest of the medical communities, new research subjects have appeared beside the more traditional in-vitro (mammography, cartilage) and in-vivo (brain and coronary imaging) applications.

Computed tomography and tomosynthesis applied to phase contrast imaging, submicron imaging, in-vivo cells and in-situ nanoparticles visualization are just examples of the emerging fields and applications. This paper will give an overview of the most exciting latest developments which are of potential interest for the medical community.