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X-ray micro-computed tomography (micro-CT) (Bonse and Busch, 1996) combined with synchrotron radiation X-ray sources enables spatial resolution in the micrometre regime for three-dimensional (3D) imaging of bone microarchitecture combined with a high level of image sensitivity.

Application of high resolution synchrotron micro-CT ...

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synchrotron radiation methodology and its application in probing neurovascular networks, especially the pathological changes associated with vascular abnormalities in various model systems. Furthermore, this tool represents a powerful imaging modality that improves our understanding of the complex

Synchrotron radiation micro-tomography for high-resolution ...

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Synchrotron radiation microtomography is now routinely used on several beamlines to perform investigations on a wide range of topics. Like other imaging techniques, it can provide information on samples from physical, medical, materials science and engineering subjects.

Synchrotron-radiation Microtomography

In this context, synchrotron micro-imaging techniques offer a powerful analytical platform to reveal the two dimensional atomic, molecular and structural compositions of such complex systems, at a micrometre resolution.

Applications of synchrotron-based micro-imaging techniques ...

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By synchrotron radiation micro-beam XRF analysis of multiple samples of fetal hairs, the Pb distribution along the longitudinal axis can be analyzed. Therefore, by analyzing the Pb distribution curves of hair, a certain period of Pb exposure history can be tracked. The main Pb sources of prenatal fetus should be from those polluted aquatics.

Study of Lead Level During Pregnancy by Application of ...

A synchrotron is a type of circular particle accelerator. It works by accelerating charged particles (electrons) through sequences of magnets until they reach almost the speed of light. These fast-moving electrons produce very bright light, called synchrotron light.

About Synchrotrons - - Diamond Light Source

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