

Coherent X-ray scattering techniques in biology
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Advanced Photonics Techniques in Biology,
Institute of Physics, London, April 2011

X-ray scattering is a traditional method for determining biological structures. When crystals are unavailable due to the variations of the biological structures under investigation, we need to develop imaging methods. X-rays are still needed if we hope to reach atomic resolution or at least the resolution of individual protein domains. X-ray imaging methods usually require the high coherence of the latest synchrotron sources, such as Diamond, so can borrow from the methods already developed for the study of materials. In this talk I will illustrate some of the potential coherence-based methods available for materials and results of our initial attempts to look at biological structures.