



Dr. Yang Xia
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Postdoctoral Position in μ MRI of Cartilage

A postdoctoral research position will become available in microscopic imaging study of articular cartilage. Our preferred candidate will have a strong background in NMR/MRI physics and a previous experience in connective tissues. We also interest in the candidates who have working skills in the general areas of connective tissue biology/spectroscopy/imaging. This position requires a PhD in physics, biophysics, bioengineering, or a related field. Our research is currently supported by two R01 grants from the National Institutes of Health (NIH).

The successful candidates will join an active research lab where we aim to determine a set of multidisciplinary molecular parameters that describe the load-induced structural changes in osteoarthritic cartilage in animals at microscopic resolution. We use multidisciplinary techniques, including microscopic magnetic resonance imaging (μ MRI), polarized light microscopy (PLM), Fourier-transform infrared imaging (FT-IRI), biomechanics, and histochemistry. Our lab instrumentation includes a new μ MRI system (Bruker AVANCE II NMR Console with a 7T superconducting magnet), a mechanical system (EnduraTec ELF 3200), a quantitative PLM system (Leica DM RXP with two digital imaging systems), a modern FT-IRI system (PerkinElmer Spotlight 300), and a number of histology and analytical chemistry equipment. More information regarding our lab and some of our recently completed projects can be found from our website.

Interested individuals should send their CV and the contact information for at least three professional references to:

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