2012 marks the 20th anniversary of functional MRI. Since its introduction, functional MRI has become a major method for mapping human and animal brain activity. Improved MRI and MRS techniques and related equipment have uncovered functional activity of individual cortical columns, the energy cost of functional activity, and have described the nature of brain connectivity in stimulated and resting conditions. For the Department of Diagnostic Radiology and MRRC 2012 Robert G. Shulman Lectures in Magnetic Resonance, we have two of the pioneers in functional MRI, Professors Seiji Ogawa and Kamil Ugurbil, who will discuss the state-of-the-art of research and technology in MRI and MRS of brain function, as well as what the future holds. Their lectures, along with lectures by Professors Todd Constable, Fahmeed Hyder, and Robert Shulman will address the future of imaging brain function with magnetic resonance in studying the stimulated and resting condition, directly measuring neuronal activity and their connections towards the study of consciousness.

email questions to qnmr@yale.edu

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