



James Ewing, Ph.D. is the Director of the Neurology NMR Facility at Henry Ford Health System. He oversees the operation of the 7 Tesla animal Magnetic Resonance Imaging and Spectroscopy (MRI/MRS) system. As Senior Bioscientific Staff in the Departments of Neurology and Radiology he has an interest in a wide range of physiological measurements in the brain. Recent academic interests are the quantification of cerebral permeability in rat models of stroke and cerebral tumor using MRI contrast agents, measurement of cerebral blood flow using arterial spin labeling, and MRI Magnetization Transfer in acute and chronic ischemic infarction in rats. Dr. Ewing has technical expertise in applied mathematics and scientific applications programming. He has developed, maintained, and documented *NeuroPipes*, a suite of reconstruction, curve-fitting, and filtering programs for MRI data acquired on Neurology consoles.

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