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Perspectives: MRI of Angiogenesis

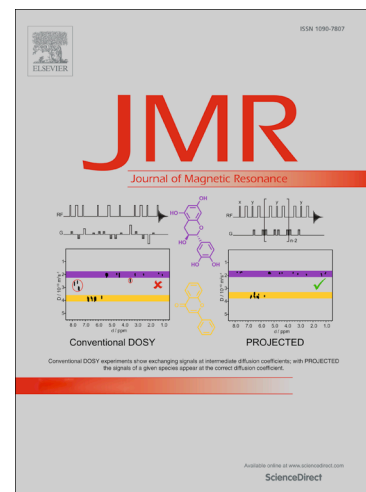
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“Advances and Applications of in vivo Magnetic Resonance”**Celebrating Two Decades of Joe Ackerman Editing JMR.****Perspectives: MRI of Angiogenesis**

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michal.neeman@weizmann.ac.il**Abstract**

Angiogenesis, the expansion of the vascular bed, is an important component in remodeling of tissues and organs. Such remodeling is essential for coping with substantial and sustained increase in the demands for supply of oxygen and nutrients and the timely removal of waste products. The vasculature, and its effectiveness in systemic delivery to all parts of the body, regulates the distribution of immune cells and the delivery of therapeutics as well as the dissemination of disease. Therefore, the vascular bed is possibly one of the key organs involved in homeostasis, in health and disease. The critical role of the vasculature in health, and the accessibility to non invasive probing by MRI, renders MRI as a modality of choice for monitoring the vasculature and its adaption to challenges.

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