

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
Pulsed electron paramagnetic resonance imaging (EPRI) for determining tumor oxygenation	A noninvasive method using pulsed EPRI could be useful for monitoring the oxygenation state of hypoxic tumors. In tumor-bearing mice, the technique detected a significant difference in oxygenation between healthy leg muscle and leg-implanted squamous cell carcinoma (SCC) ($p < 0.01$). Quantitative 3D maps of tissue oxygenation in living mice were acquired in about eight minutes. Next steps include applying the approach to monitor the oxygenation state of human tumors.	Patented by the NIH; unlicensed	Matsumoto, S. <i>et al. J. Clin. Invest.</i> ; published online April 22, 2008; doi:10.1172/JCI34928 Contact: Murali C. Krishna, National Institutes of Health, Bethesda, Md. e-mail: murali@helix.nih.gov