

## Magnetic Resonance Fingerprinting: Promise and Challenges

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Magnetic Resonance Fingerprinting (MRF) is an approach for efficiently and simultaneously measuring multiple tissue properties. By tuning acquisition parameters and applying specialized reconstruction approaches, MRF can be deployed to assess T1, T2, PDFF, T1 $\rho$ , and/or T2\* in organs including the brain, heart, liver, and prostate. While this powerful technique has been demonstrated in a variety of research settings, it has not yet been translated for clinical use. This presentation will introduce the concept of MRF and its potential for tissue characterization, as well as the challenges faced by MRF which currently limit its clinical adoption.