Digital Posters

Novel Contrast Mechanisms

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Digital Poster

Contrast Mechanisms

Monday, 17 May 2021

Concurrent Session Number: D-41	15:00 - 16:00	Parent Session: Novel & Multicontrast Approaches

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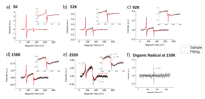

EPR measurements on human brain tissue at variable temperature

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On this work it was evaluated the EPR measurements at variable temperature on tissue samples from different brain regions. For all samples, four different peaks were observed and their relationship with temperature were analyzed. High-spin rhombic iron(g = 4.3), copper(g = 2.06, g = 2.28) and organic radical (g = 1.989) peaks showed a Curie behavior with antiferromagnetic contributions. By other hand, a broad peak centered at g = 2.0 showed an antiferromagnetic behavior with Curie contribution. Additionally, a fifth peak was observed only for the Locus Coeruleus sample with a temperature dependent g-value (3.62 - 2.55).