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Paper Title:	Tissue-Mimicking Material for Long-Term Transcranial Electrical Stimulation
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Abstract

Tissue-mimicking materials are employed in multi-layered head phantoms to investigate the distribution of electric current during transcranial electrical stimulation under realistic conditions. Gel-based tissue substitutes containing saline solution are widely used in the head phantoms to simulate electrical conductivity of one or more tissues. These materials possess short shelf-life, limiting the electrical stability and robustness of the phantom over time. This work aims to address these challenges by presenting an inherently stable, conductive polymer-based tissue-mimicking material that can be used to fabricate multi-layered head phantoms for long-term stimulation experiments.
