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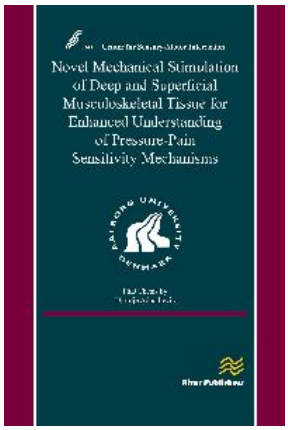

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Novel Mechanical Stimulation of Deep and Superficial Musculoskeletal Tissue for Enhanced Understanding of Pressure-Pain Sensitivity Mechanisms

Author: Djordje Adnadjevic, Center for Sensory-Motor Interaction, Department of Health Science and Technology, Aalborg University, Denmark
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Description:

This work focused on the development and validation of the new computerized biaxial algometer as well as on assessing its efficacy to produce distinct pain perception relative to conventional pressure stimulation in healthy and hyperalgesic musculoskeletal tissue. The aims were to improve unidirectional algometry in ways leading to reliable stimulation that is closer to the efficacy pertinent to manual palpation, yet via standardized approach. In addition, the setup explored the effects of the fast, precise, and overshoot-free repeated bidirectional stimulation on temporal summation of pain.

Keywords: TS Technical Study QST Quantitative Sensory Testing VAS Visual Analogue Scale PPT Pressure Pain Threshold BA Biaxial Algometer NGF Nerve Growth Factor

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