

Special Issue

Biobehavioral Neuroscience and Pain Medicine: Assessment and Management of Pain

Message from the Guest Editors

Pain is a multidimensional phenomenon that emerges from complex interactions between nociceptive, affective, cognitive, and behavioral processes. Traditional biomedical models are insufficient to explain the persistence and variability of chronic pain, leading to a rise in biobehavioral neuroscience as a key framework. This perspective emphasizes how brain networks, psychological states, and motor behaviors dynamically influence pain perception and modulation.

We aim to gather contributions that explore the neural and behavioral mechanisms underlying pain, as well as their implications for assessment and management. We seek research on neuroplasticity, central sensitization, emotion–pain–motor interactions, neurobehavioral biomarkers, and the implementation of biopsychosocial models in clinical settings. Both basic and applied research are welcome.

We encourage submissions that leverage innovative methodologies to capture the dynamic and individualized nature of pain. Interdisciplinary approaches that link neuroscience with rehabilitation, psychology, and digital health are particularly valued for advancing integrative pain medicine.

Guest Editors

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