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Molecular and Neurological Aspects of Sensory Processing Disorders

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Message from the Guest Editors

The physiological sensory information process is critical during development because from birth we are surrounded by stimuli that we have to encode, such as smell, taste, and touch. Sensory processing disorders (SPDs) affect the ability to detect and respond to sensory stimuli, impairing different sensory systems, e.g., auditory, taste, touch, and vestibular systems. Studies have demonstrated a possible genetic component and that SPDs seem to be linked to neurodevelopmental disorders. SPDs still remain not fully understood, which means that new scientific approaches and technological advances must continue to be combined in order to completely understand SPDs. Moreover, it could be useful to use innovative diagnostic and treatment tools for early diagnosis and a more efficacious treatment. The main aim of this research topic is to reach the state of the art about SPDs from the molecular and neurological point of view. Another aim is to provide a new starting point for new research in order to highlight and more deeply understand the pathological mechanisms to enable early diagnosis and a more efficacious treatment.



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