Special Issue

Advanced Molecular Diagnostic Approaches for Neurodevelopmental Disorders: Applications and Future Perspectives

Message from the Guest Editors

In recent years, molecular diagnostic technologies, such as array CGH and NGS, have become more important in the clinical field thanks to the availability of highly sensitive, which allow to detect molecular alterations with a higher resolution, accuracy, and specificity. Since it has been demonstrated a strong genetic basis for neurodevelopmental disorders (NDDs), research of this condition as improved. The application of these advanced methods for patients with NDDs could provide interesting insights into their pathophysiology, the relationship between specific molecular findings and various symptom domains, suggesting the presence of shared molecular pathways underlying specific clinical signs. This would allow to explain the comorbidity of these conditions and could open new avenues to identify possible new molecular targets. In this perspective, therefore, could be better to understand and define not only the mechanisms underlying the onset of the disease, but also to design new therapeutic strategies.

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