Contribution ID: **23233** Type: **Poster**

The Role of Nuclear Neurology in Diagnosing Autism Spectrum Disorder (ASD)

1 in 100 children are diagnosed with Autism Spectrum Disorder (ASD) as of 2021 (1). Autism prevalence has increased 317% since 2000 in the United States (2). Nuclear medicine has experienced a significant advancement in the field of neuroimaging, providing unparalleled insights into the human brain's structure, functionality, and metabolic processes. In recent years, nuclear medicine neuroimaging has experienced a profound transformation, with nuclear medicine playing a central role in driving this progress. This poster highlights the latest developments in nuclear neurology like focusing on imaging techniques and their applications in diagnosing and monitoring ASD brain and neurological disorders. It highlights the dynamic landscape of nuclear medicine's contribution to neuroimaging and its potential to shape the future of neuroscience and clinical practice of ASD. It invites viewers to explore the remarkable progress and untapped potential within this transdisciplinary field. The objective of this poster is to invite all professionals in this field to unlock early diagnosis, optimizing therapies, and draw the attention of the kingdom's government to invest in nuclear medicine that contribute to the economic growth and healthcare innovation.

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Session Classification: Day 2- Poster Competition

Track Classification: Student competition