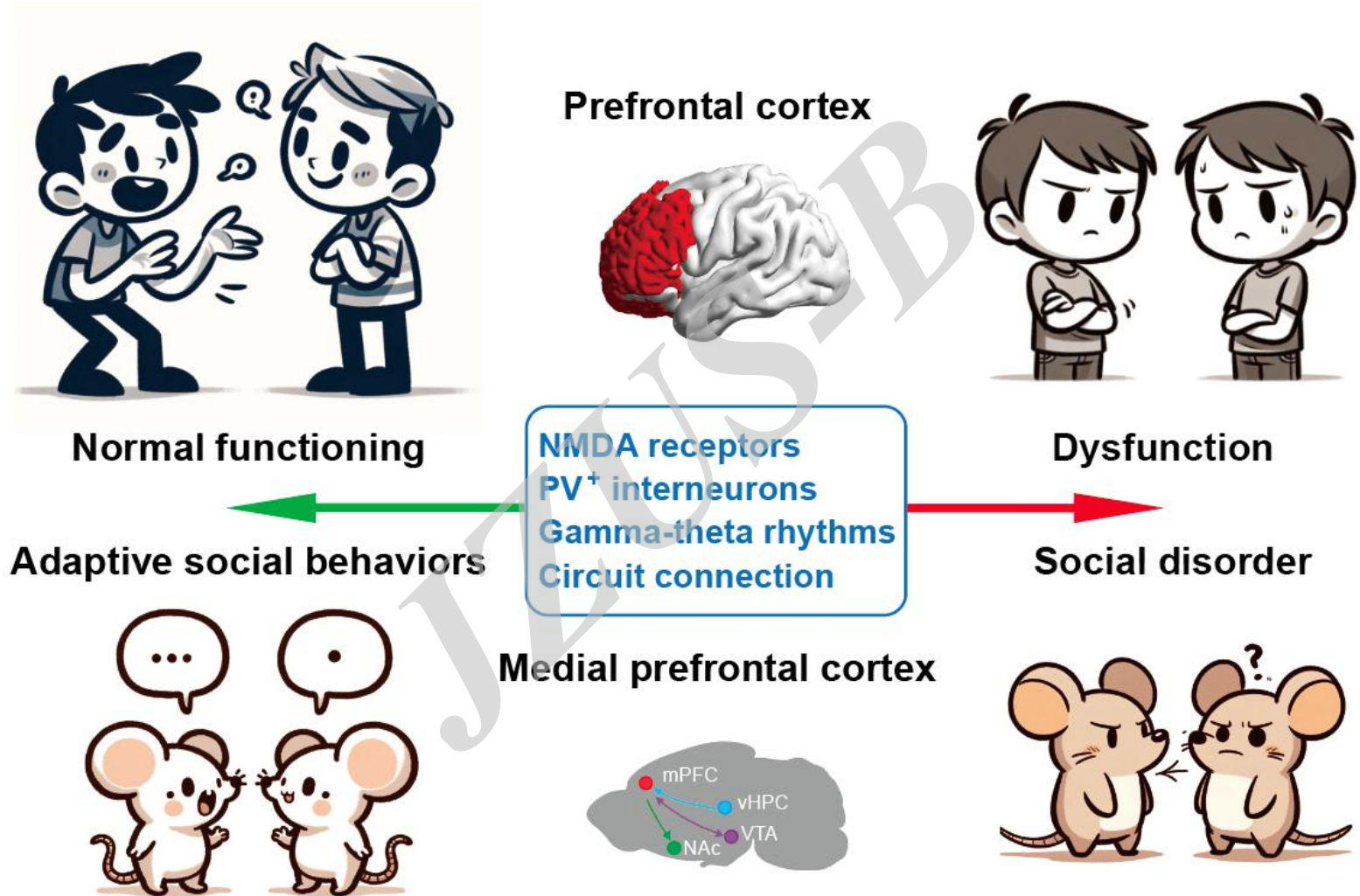


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Prefrontal cortical circuits in social behaviors: an overview

Key words: Prefrontal cortex (PFC); Social behavior; Autism spectrum disorder (ASD); Schizophrenia (SCZ); Parvalbumin-positive interneuron; N-Methyl-D-aspartate receptor (NMDAR)

Cartoon summary



Review highlights

This review focused on the pivotal role of the PFC in regulation of social behaviors, and its dysfunction in social disorders in ASD or SCZ. The followings are the highlights:

- **PFC plays a critical role in regulating social behavior, social cognition and emotion.**
- **PFC dysfunction may represent a central hub in the pathogenesis of ASD and SCZ characterized by shared social deficits.**
- **Distinct mPFC circuits differentially involve social behaviors in rodents.**
- **NMDA receptors, PV⁺ interneurons and gamma oscillation are key factors in supporting social function.**