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“A Role for the Serotonin Reuptake “Transporter in the Brain and Intestinal Features of Autism Spectrum Disorders and Developmental Antidepressant Exposure”

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Abstract: Many disease conditions considered CNS-predominant harbor significant intestinal comorbidities. Serotonin (5-HT) and the serotonin reuptake transporter (SERT) have increasingly been shown to play important roles in both brain and intestinal development and long-term function. 5-HT and SERT may thus modulate critical functions in the development and perpetuation of brain-gut axis disease. We discuss the potential roles of 5-HT and SERT in the brain and intestinal manifestations of autism spectrum disorders and developmental antidepressant exposure. The potential therapeutic value of 5-HT<sub>4</sub> modulation in the subsequent treatment of these conditions is also addressed.

Key words: serotonin, serotonin reuptake transporter, autism spectrum disorders, antidepressants, selective serotonin reuptake inhibitors, brain-gut axis, 5-HT<sub>4</sub> receptor.

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