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JOINT EVENT 10th International Conference Childhood Obesity and Nutrition 2nd International Conference Childhoolic and Bariatric Surgery June 12-13, 2017 Rome, Italy

The vagal system as a mediator of the therapeutic effects of bariatric surgery

Obesity and type-2 diabetes are chronic diseases that respond with di culty to drug therapies and lifestyle changes. At the origin of this resistance to treatment, an alteration in the functioning of brain sectors in charge of the reward system and of the energy homeostasis, due to a modi cation of synaptic transmission has been hypothesized. Overfeeding, presumable beginning as a psychological compulsive search for a rewarding stimulus turns into food addiction due to the adaptation of synapses in the reward circuit in response to the increased intensity of the inputs (synaptic plasticity). e same would apply to the brain areas responsible for the maintenance of energy homeostasis. e a erent vagal paths transmit to the brain information about ingested food from the digestive tract. eir intermediate station in the brainstem, the vagal nucleus of the

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