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## Role of 5-HT<sub>2B</sub> Serotonin Receptor Agonist in the Regulation of Pumping Function of the Heart

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### Abstract

© 2015, Springer Science+Business Media New York. The effect of  $\alpha$ -methyl-5-hydroxytryptamine maleate, an agonist of 5-HT<sub>2B</sub> serotonin receptors, on the pumping function of the heart was examined in rats with forced motor behavior. At rest, swim-trained rats demonstrated lower HR and greater stroke volume and cardiac output than untrained rats. The agonist decreased HR, stroke volume, and cardiac output in 21- and 70-day-old swim-trained rats, but not in 100- and 200-day-old rats

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### Keywords

5-HT<sub>2B</sub> serotonin receptor agonist, cardiac output, heart rate, muscle training, stroke volume