## Effect of NO Synthase Blockade on NO Production in Rat Heart under Conditions of Hypokinesia

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## Abstract

© 2014, Springer Science+Business Media New York. Electron paramagnetic (EPR) spectroscopy study showed that 90-day hypokinesia in rats is accompanied by an increase in NO production in the heart. A nonselective NO synthase inhibitor L-NAME decreased the content of NO in the heart atria and ventricles of hypokinetic rats by 67-70%. A selective inhibitor of inducible NO synthase, aminoguanidine, also decreased the level of NO in the heart atria and ventricles of hypokinetic rats indicate that the increase in NO production during hypokinesia is associated with activation of NO synthases.

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## Keywords

electron paramagnetic resonance, heart, hypokinesia, NO, rat