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Effects of angiotensin II and captopril on rewarding propreties of morphine

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Abstract

The effects of captopril and Ang II on morphine-induced conditioned place preference (CPP) and morphine selfadministration in male Wistar rat were investigated. In CPP experiment, injection of captopril before test significantly decreased the difference of the time spent in compartment A between pre- and post-conditioning compared to morphine group. In self- administration experiment number of active lever pressing was significantly greater than passive in morphine group. In captopril group number of active lever pressing was significantly lower than morphine group however, there was not significant difference between active and passive lever pressed number. The results showed that captopril significantly decreased morphine-induced conditional place preference and morphine self-administration but the effect of Ang II was not significant. It can be concluded that RAS may have a role in rewarding properties of morphine.

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Author keywords

Angiotensin II; Captopril; CPP; Morphine; Rat; Self-administration

Indexed Keywords

Species Index: Rattus; Rattus norvegicus

EMTREE drug terms: angiotensin II; captopril; dipeptidyl carboxypeptidase inhibitor; morphine

EMTREE medical terms: animal; article; conditioning; drug effect; drug self administration; male; physiology; rat; renin angiotensin aldosterone system; reward; Wistar rat

MeSH: Angiotensin II; Angiotensin-Converting Enzyme Inhibitors; Animals; Captopril; Conditioning (Psychology); Male; Morphine; Rats; Rats, Wistar; Renin-Angiotensin System; Reward; Self Administration

Medline is the source for the MeSH terms of this document.

Chemicals and CAS Registry Numbers: angiotensin II, 11128-99-7; captopril, 62571-86-2; morphine, 52-26-6, 57-27-2;Angiotensin II, 11128-99-7; Angiotensin-Converting Enzyme Inhibitors; Captopril, 62571-86-2; Morphine, 57-27-2

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