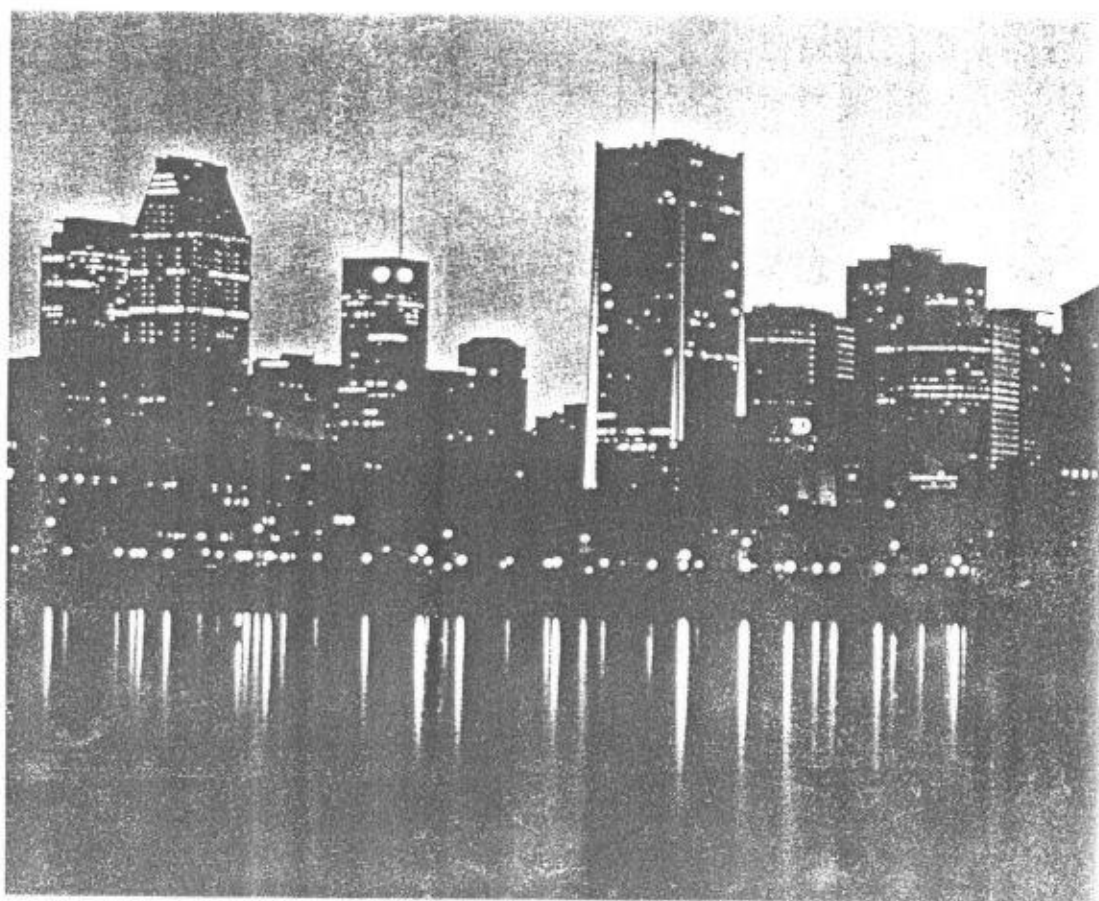


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2113 EFFECTS OF BETA-LACTAM ANTIBIOTICS ON ISOLATED RAT FUNDUS. Sloodan M. Jankovic, Dimitrios Kouvelas, Anastasia Argyriou, Miroslav Mitrovic, Athanasios G. Paradelis*, Aristotle University of Thessaloniki, Macedonia, Greece.

In previous studies beta-lactam antibiotics produced relaxant effect on uterus of the rat. We have tried their effects on isolated preparations of rat fundus and ileum, and the body of feline stomach. They were mounted in 15 ml isolated organ bath containing Krebs solution for rat isolated preparations and Tyrode solution for feline isolated preparations. Isotonic changes in the tone of isolated preparations were recorded. Benzylpenicillin ($EC_{50} = 1.31 \pm 0.13 \times 10^{-6}M$), ampicillin ($EC_{50} = 2.16 \pm 0.15 \times 10^{-6}M$), cefotaxime ($EC_{50} = 1.33 \pm 0.15 \times 10^{-6}M$), ceftriaxone ($EC_{50} = 4.39 \pm 0.13 \times 10^{-6}M$) and cefazidime ($EC_{50} = 1.42 \pm 0.01 \times 10^{-6}M$) produced concentration-dependent tonic contractions of rat fundus. Isolated preparations of rat ileum and feline stomach did not respond on these substances. Effects of beta-lactam antibiotics on smooth muscle isolated preparations were tissue and species dependent, indicating high specificity and selectivity of action.

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