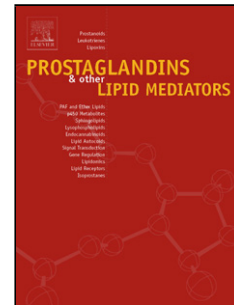


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**Control of myogenic tone and agonist induced contraction of intramural coronary resistance arterioles by cannabinoid type 1 receptors and endocannabinoids**

**Short title:** Endocannabinoids moderate coronary arteriole tone via CB<sub>1</sub>R

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**Highlights**

- Protein and mRNA of the Cannabinoid Receptor Type 1 are present in intramural coronary resistance arteries of the rat. Its exogenous stimulation induces substantial coronary vasodilation.
- Endocannabinoid production in the wall (with all probability 2-arachnoidyl-glycerol, 2-AG) continuously reduces coronary resistance artery tone as it could be observed by pressure arteriography of isolated segments using receptor antagonists and inhibitor of synthesis.
- Both characteristic for these vessels myogenic tone and agonist-induced tone are kept substantially moderated by this intrinsic coronary vasodilatory mechanism.

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