

Corrigendum

Corrigendum to 'α₁-Adrenoceptors mediating contraction in arteries of normotensive and spontaneously hypertensive rats are of the α_{1D} and α_{1A} subtypes'

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Abstract

α₁-Adrenoceptor subtypes mediating contraction in carotid, aorta, mesenteric and caudal arteries from both Wistar Kyoto (WKY) normotensive and spontaneously hypertensive (SHR) rats were investigated by using the α_{1A}-adrenoceptor agonist methoxamine and antagonized with selective, competitive antagonists WB-4101, 5-methyl urapidil or BMY 7378 (8-(4-(2-methoxyphenyl)-1-piperazinyl)ethyl)-8-azaspiro(4,5)decane-7,9-dione dihydrochloride). Isometric tension changes were recorded after methoxamine addition to the arterial rings, and the effects of the antagonists determined. All the antagonists shifted to the right the concentration-response curve to methoxamine. pA₂ values indicate that all arteries but caudal express the α_{1D}-adrenoceptor subtype, since BMY 7378 values were high in these arteries. Due to the high pA₂ values for 5-methyl urapidil and WB-4101 and the low values for BMY 7378 we conclude that the tail artery expresses the α_{1A} and not the α_{1B} subtype. No differences were found between both strains of rats, suggesting that hypertension does not modify the α₁-adrenoceptors in conductance arteries.

Keywords: α_{1D}-Adrenoceptor; α_{1A}-Adrenoceptor; BMY 7378; Spontaneously hypertensive rat (SHR); Artery; Wistar Kyoto rat (WKY)

In the above-mentioned paper, the captions to Figs. 3 and 4 were inadvertently exchanged: the graphs in Fig. 3 correspond to the mesenteric arteries; the graphs in Fig. 4 correspond to the carotid arteries.

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