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Effect of β -adrenoceptor blockade on cardiac activity in rats during postnatal ontogeny

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Abstract

Electrical stimulation of the right stellate ganglion produces a positive chronotropic effect in 21-, 56-, and 100-day-old rats. The response of the heart rate to suprathreshold stimulation increased from the 21st to 100th day. By contrast, during β -adrenoceptor blockade the heart rate response decreased. The data suggest that the role of β -adrenoceptor in the regulation of cardiac chronotropic function increased with age. © 2003 Plenum Publishing Corporation.

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Keywords

β -adrenoceptors, Heart, Rat, Sympathetic control