

综述

激肽释放酶-激肽系统的心血管领域研究进展

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摘要 本文主要就激肽释放酶-激肽系统(KKS)在心血管领域的研究进展进行综述。KKS是机体重要的调节系统,广泛地存在于许多组织和器官中,参与多种生理和病理过程,如心血管、肾脏和神经系统的功能调节,平滑肌收缩、葡萄糖代谢、细胞增殖、炎症与疼痛及休克过程等。近年来特别是在心血管方面的研究进展很快,许多临床研究和基础实验已证实KKS具有强大的心血管保护作用,如调节血压、抑制心肌肥厚的形成、减少缺血再灌注损伤和参与缺血预适应形成。对于其各组分及相应受体作用的研究已达分子水平。基因敲除和转基因模型的建立,进一步扩大了研究的深度和广度,为心血管疾病的治疗和新型药物的开发提供广阔的前景。

关键词 [激肽释放酶](#) [激肽系统](#) [缓激肽](#) [心血管系统](#) [缺血预适应](#)

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Advances in research on kallikrein-kinin system in cardiovascular system

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Abstract

his paper is to review the researches on the kallikrein-kinin system in cardiovascular system. Kallikrein-kinin system is a family of peptides and extensively exists in many tissues and organs, which plays a critical role in a variety of physiology and pathophysiological conditions. In recent years, numerous observations obtained from clinical and experimental studies suggest that KKS contribute to the regulation of blood pressure and the cardioprotective effects, such as preconditioning, reduction of cardiac hypertrophy and cardiac isc hemic/reperfusion injury. The assembly and activation of KKS have new interpretation. The studies on the components of KKS and their receptors develop rapidly. Molecular biological analysis and the establishment of transgenic animals and gene knock- out models have also allowed newer information to be acquired on this subject, which provides more selective therapeutic modalities and promotes the development on novel agents.

Key words [kallikrein-kinin system](#) [bradykinin](#) [cardiovascular system](#) [ischemic preconditioning](#)

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