

综述

间隙连接蛋白家族的研究进展

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摘要

关键词 [缝隙接合部](#); [连接蛋白类](#); [Innexins](#) [Ponnexins](#)

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Progress in protein families of gap junction

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Abstract

Gap junctions are intercellular channels, which connect adjacent cells and allow direct molecular exchange of low molecular weight between them. Three protein families including connexins, innexins and pannexins are involved in gap junctions. Connexins are only found in chordate and innexins compose the gap junctions of invertebrates, while pannexins are ubiquitous and present in both vertebrates and invertebrates. Gap junctions in metazoan play important roles in electrical coupling, regulating proliferation, differentiation, and embryonic development. Evidently, the defects of gap junctions resulting from proteins contribute to many diseases of vertebrates and invertebrates, such as tumor, heart diseases, nervous system disorders and other diseases in human.

Key words [Gap junctions](#) [Connexins](#) [Innexins](#) [Ponnexins](#)

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