

综述

孕酮：一种极具潜力的神经保护药物

李燕¹, 胡志英², 方马荣¹

1 浙江大学医学院细胞生物学研究所, 杭州310058; 2 杭州市红十字会医院妇产科, 杭州310003

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摘要

孕酮长期以来被认为是生殖和母性行为中的一种重要激素, 其在脊髓损伤、脑损伤和衰老相关疾病中发挥显著的神经保护和神经再生作用。孕酮主要通过其保护血脑屏障、抗水肿、抗炎症、抗细胞凋亡及神经营养作用, 同时能够改善衰老脑的功能而发挥神经保护作用。对孕酮的多效性作用的认识将促使其成为极具潜力的神经保护新药, 为临床上神经系统的疑难杂症提供新的治疗方案。

关键词 [孕酮](#); [神经保护作用](#); [脑损伤](#); [脊髓损伤](#)

分类号

Exogenous progesterone: a potential candidate of neuroprotective drug

LI Yan¹, HU Zhi-ying², FANG Ma-rong¹

1. Institute of Cell Biology, Medical College, Zhejiang University, Hangzhou 310058,

2. Department of Obstetrics-Gynecology, Hangzhou Red Cross Hospital, Hangzhou 310003, China

Abstract

Progesterone (PROG), long considered for its role as a primary hormone in reproductive and maternal behavior, is now being studied as a neuroprotective and neuroregenerative agent in spinal cord injuries, traumatic brain injuries and age-related pathological processes. PROG exerts its important protective effect on nervous system in many ways. It may promote neuroregeneration by protecting or rebuilding the blood-brain barrier, decreasing development of cerebral edema, down-regulating the inflammatory cascade, suppressing cellular necrosis and apoptosis and performing its notable neurotrophic action. What is more, it can improve the function of ageing brain. The diverse signaling mechanisms and the dose-dependent neuroprotective actions of PROG are also investigated. Recognition of the pleiotropic effects of progesterone may promote exogenous progesterone became a new therapeutic candidate and open a novel perspective for the treatment of injuries and diseases in nervous system.

Key words [progesterone](#) [neuroprotection](#) [traumatic brain injury](#) [spinal cord injury](#)

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通讯作者 方马荣 fangmaro@zju.edu.cn

作者个人主页 李燕¹; 胡志英²; 方马荣¹

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