

综述与其他

榄香烯在线粒体相关途径下抗肿瘤研究进展^{*}史亚博¹ 陈婷婷^{2**}

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摘要:线粒体作为生物体细胞代谢和信号转导途径的中心环节,在近年抗肿瘤药物研发及临床治疗领域备受关注。榄香烯是从草药温郁金、温莪术中提取的抗肿瘤活性成分,其作用机理及临床研究已近三十年,为更全面地了解其抗肿瘤机制,以线粒体途径视角,从榄香烯在线粒体途径下抗肿瘤效应为出发点,对近年来榄香烯相关研究进展进行总结,为进一步深度挖掘和应用榄香烯提供参考及新的研究思路。

关键词:榄香烯;线粒体;抗肿瘤机制;基础研究;综述

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An Anti-tumor Research Progress of Elemene by a Mitochondria-related Approach

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Abstract: Mitochondria, as the core of biological cell metabolism and signal transduction pathways, have attracted much attention in the field of anti-tumor drug development and clinical treatment in recent years. Elemene is an anti-tumor active ingredient extracted from the curcuma wenyujin and curcuma zedoaria and its mechanism of action and clinical research have been done for nearly 30 years. In order to understand its anti-tumor mechanism more comprehensively, this paper starts from the anti-tumor effect of elemene by a mitochondrial approach, and then makes a summary of the relevant research progress of elemene in recent years, providing a reference and new ideas for the further exploration and application of elemene.

Keywords: elemene; mitochondria; anti-tumor mechanism; a fundamental research; a review

线粒体参与和影响着肿瘤的发生、全过程。近年来,随着线粒体途径的抗肿瘤机制相关研究不断深入,线粒体已成为药学、化学和生命科学等领域所关注的热点^[1]。榄香烯广谱抗肿瘤作用被临床及基础研究不断验证,其拮抗肿瘤细胞耐药、

诱导凋亡、影响肿瘤迁徙和转移等方面的综合作用为化学药物所不具备^[2]。既往榄香烯抗肿瘤以线粒体相关途径的机制研究系统性不佳,现从线粒体抗肿瘤相关机制的角度,对近年榄香烯抗肿瘤相关文献进行整合,为从线粒体途径发现榄香

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