

综述

光感应化合物在光控治疗中的应用

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摘要:

综述了光感应化合物在以光为手段治疗疾病方面的研究和应用。介绍了光动力治疗及卟啉类和酞菁类化合物在光动力治疗中的应用现状, 讨论了光动力作用中活性氧的产生机理, 着重介绍了含偶氮苯基团的光感应化合物和含其它光感应材料的脂质体在光控治疗中的应用和发展, 阐述了光化学内化的研究进展, 并展望了光感应脂质体在光控治疗中潜在的应用价值。

关键词: 光动力治疗 光感应化合物 活性氧 脂质体 光化学内化

Applications of Photosensitive Compounds in Photo-Controlled Therapy

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Abstract:

The research and applications of photosensitive compounds used for treating diseases by means of light are reviewed. Briefly introduces the photodynamic therapy and the application of porphyrin and phthalocyanine photosensitive compounds in photodynamic therapy, describes the generation mechanism of reactive oxygen species (ROS) in photodynamic process, highlights the application and development of other photosensitive compounds, such as azobenzene compounds or other photosensitive materials, focus on the potential use of a new type of intelligent liposome encapsulating a cholesterol derivative of azobenzene compounds in photo-controlled therapy. The recent prospect of photochemical internalization (PCI) is also described.

Keywords: Photodynamic therapy Photosensitive compound Reactive oxygen species Liposome Photochemical internalization

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