

عنوان مقاله:

Recent advances in nanocarrier-based targeted drug delivery : For lung, colon, and breast cancers

محل انتشار:

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تعداد صفحات اصل مقاله: 17

نویسندگان:

Parisa Sabouri - Medical University of Science, Shiraz, Iran

Sogand Bahadori - Department of Chemistry, Kerman Branch, Islamic Azad University, Kerman, Iran

Azam Mohsennejadesaniyani - Department of Midwifery, Shool of Medicine, Qom University of Medical Sciences, Qom, Iran

Seyed Mohammad Reza Hosseini - School of medicine, Zanjan University of Medical Sciences, Zanjan, Iran

Mahbod Khodamorovati - Faculty of Medicine, The University of Georgia, Tbilisi, Georgia

Erfan Yazdani - School of Medicine, North Khorasan University of Medical Sciences, Bojnord, Iran

Dina Mohammadi - Department of Mechanics and Industries, Islamic Azad University, Qazvin Branch, Qazvin, Iran

Darya Nejadkoorki - Faculty of Medicine, Yazd Medical University, Yazd, Iran

Marika Sulashvili - School of Science and Technology, University of Georgia, Tbilisi, Georgia

Ketevan Tavamaishvili - Georgian American University, ۱۰ Merab Aleksidze street, Tbilisi ۰۱۶۰, Georgia

Husain AbdulSattar - Department of Medicine, School of health science, The University of Georgia, Tbilisi ۰۱۷۱, Georgia

Johan James John - Department of Medicine, School of health science, The University of Georgia, Tbilisi ۰۱۷۱, Georgia

Joan James John - Department of Medicine, School of health science, The University of Georgia, Tbilisi ۰۱۷۱, Georgia

Lili Arabuli - School of Science and Technology, University of Georgia, Tbilisi, Georgia

Khatuna Vashakmadze - Department of Medicine, University of Georgia, Tbilisi, Georgia

خلاصه مقاله:

For a while now, the development of research and technology has provided us with different approaches which show how cancer works and how is it possible to develop different methods of treatment. Nanotechnology and nano-carriers have shown a promising approach toward the treatment of different types of cancer. Nano-carriers based targeted drug delivery have different forms such as lipid-based, polymeric-based, inorganic-based, and hybrid-based, each of them is unique in structure, size, "function and" ability to deliver the drugs. Therapeutic substances can be used with the help of the applied

modifications to the nano-carriers. These particles have shown significant benefits such as effectiveness, safety, low toxicity, biocompatibility, biodegradability and the improved quality of the treatment. The therapeutic properties of the nano-carriers can be regulated. This can help to provide an effective treatment for a patient with a specific diagnosed disease. The treatments can be administered either orally, intravenously or by combined route. The overall results of the use of nano-carriers have certainly created an interesting approach and created an opportunity for new treatments that improve the patient's profile. For a while now, the development of research and technology has provided us with different approaches which show how cancer works and how is it possible to develop different methods of treatment. Nanotechnology and nano-carriers have shown a promising approach toward the treatment of different types of cancer. Nano-carriers based targeted drug delivery have different forms such as lipid-based, polymeric-based, inorganic-based, and hybrid-based, each of them is unique in structure, size, "function and" ability to deliver the drugs. Therapeutic substances can be used with the help of the applied modifications to the nano-carriers. These particles have shown significant benefits such as effectiveness, safety, low toxicity, biocompatibility, biodegradability and the improved quality of the treatment. The therapeutic properties of the nano-carriers can be regulated. This can help to provide an effective treatment for a patient with a specific diagnosed disease. The treatments can be administered either orally, intravenously or by combined route. The overall results of the use of nano-carriers have certainly created an interesting approach and created an opportunity for new treatments that improve the patient's profile.

کلمات کلیدی:

Drug delivery, Nanocarriers, Lung cancer, Colon cancer, Breast cancer

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