

عنوان مقاله:

Stimuli-Responsive Alginate Nanogels for Cancer Treatment

محل انتشار:

مجله تحقیقات سرطان, دوره 7, شماره 2 (سال: 1402)

تعداد صفحات اصل مقاله: 12

نویسندگان:

Hamid Reza Garshasbi - *Nanotechnology Department, School of Advanced Technologies, Iran University of Science and Technology (IUST), Tehran, Iran*

Seyed Morteza Naghib - *Nanotechnology Department, School of Advanced Technologies, Iran University of Science and Technology (IUST), Tehran, Iran*

خلاصه مقاله:

3D nanoscale networks that are created with polymers physically or chemically are called Nanogels (NGs). Their biocompatibility, high stability, drug loading capacity, and ability to bind ligands for active targeting make them ideal for drug delivery systems. Moreover, they can respond to both internal and external stimuli, such as temperature, light, pH, and more. This makes it easier to consistently deliver the drug to the target area. Alginate (ALG) biopolymers are used for the encapsulation of anticancer drugs because of their biocompatibility, hydrophilicity, and affordability. These ALGs nanogel-based systems are effective in treating cancer, with several studies supporting their development. The .ALG and its underlying systems are reviewed in this article

کلمات کلیدی:

Alginates, Gels, Drug Delivery, Cancer, Stimuli-Responsive

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1900477>

