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chemo photothermal therapy combination elicits anti tumor

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nature communications photothermal therapy ptt for cancer treatment is currently limited to local accessible tumors here the authors show that ptt combination with chemotherapy by

photodynamic and photothermal therapies synergy

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cancer lasers nanoparticles photosensitization tumors abstract tumoricidal photodynamic pdt and photothermal ptt therapies harness light to eliminate cancer cells with spatiotemporal precision by either generating reactive oxygen species or increasing temperature

how promising is phototherapy for cancer pmc

Jan 25 2024

oncological phototherapy including current photodynamic therapy pdt developmental photoactivated chemotherapy pact and photothermal therapy ptt shows promising photo efficacy for superficial and internal tumours

a platelet intelligent vehicle with navigation for cancer

Dec 24 2023

the intelligent platelet vehicle achieved the functions of tumor targeting and deep penetration fluorescence imaging guidance photocontrolled drug release and chemo photothermal combination therapy suggesting the advancement for tumor precise delivery and efficient therapy

photothermal chemotherapy integrated nanoparticles with tumor

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photothermal chemotherapy integrated nanoparticles with tumor microenvironment response enhanced the induction of immunogenic cell death for colorectal cancer efficient treatment acs applied materials interfaces cite this 2019 11 46 43393 43408 advertisement

recent advances in selective photothermal therapy of tumor

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among the emerging cancer therapies photothermal therapy ptt utilizes the photothermal effect of photothermal agents ptas which converts absorbed light energy to heat to cause thermal burns on the tumor ptt has high research value because of its simple operation short treatment time and rapid recovery 6 7

advances in nanomaterial mediated photothermal cancer

Sep 21 2023

photothermal therapy ptt has attracted extensive research attention as a noninvasive and selective treatment strategy for numerous cancers ptt functions via photothermal effects induced by converting light energy into heat on near infrared laser irradiation

advances in cancer therapeutics conventional thermal therapy

Aug 20 2023

in photothermal therapy light is converted into heat to destruct the various types of cancerous growth the role of nanoparticles as a photothermal agent is emphasized in this review article magnetic as well as non magnetic nanoparticles have been effectively used in the photothermal based cancer therapies

synergistic photothermal photodynamic chemotherapy toward

Jul 19 2023

introduction as an effective and non invasive cancer treatment phototherapy has attracted increasing attention due to its advantages of nondrug resistance and low toxicity 1 phototherapy is mainly represented by photodynamic therapy pdt and photothermal therapy ptt

polydopamine drug conjugate nanocomposites based on zif 8 for

Jun 18 2023

here we describe a polydopamine drug conjugate nanocomposite zp pda dox with targeted cancer photothermal chemotherapy ptt ct which constructed by a gradual copolymerization of dopamine da and ph sensitive dopamine derived prodrug da dox into the porous channels of zeolite imidazolate frameworks 8 zif 8 followed by pegylation with a

combined cancer photothermal chemotherapy based on pubmed

May 17 2023

thus the chemo photothermal treatment based on polymersomes loaded with dox and gnrs is a useful strategy for maximizing the therapeutic efficacy and minimizing the dosage related side effects in the treatment of solid tumors keywords nir chemotherapy gold nanorod photothermal therapy polymersomes publication types

photothermal performance of a novel carbon dot and its

Apr 16 2023

nanometer scale particles can be used to treat and detect cancer in many ways a type of nanoparticle was designed to attack cancer in two different ways these nanoparticles copper sulfur nitrogen carbon quantum dots c s n cqds were designed to both deliver a chemotherapy drug to cancer cells and act as a photothermal agent

h2s driven chemotherapy and mild photothermal therapy induced

Mar 15 2023

the results indicated that tcuh can produce cu 9 s 8 with excellent photothermal conversion at high concentrations of h 2 s which can inhibit tumor growth in combination with h 2 s driven chemotherapy and mild photothermal therapy induced mitochondrial reprogramming to promote cuproptosis there were no significant changes in mouse body weight

photothermal chemotherapy enhancing tumor immunotherapy **by**

Feb 14 2023

when mmh nps were coinjected with an anti ox40 antibody in colorectal cancer the highest antitumor efficacy and a robust immune effect were achieved this work provides a novel combined therapeutic strategy which will hold great promise in future tumor therapy

two pronged reversal of chemotherapy resistance by gold

Jan 13 2023

surprisingly we found the mild photothermal effect elicited by gnrs under nir irradiation simultaneously inhibited the pump and nonpump resistance mechanisms enhancing the intracellular dox accumulation and sensitizing the cancer cells to dox collectively amplify the chemotherapy efficacy and delay the mcf 7 adr breast tumor growth

advancements in photothermal therapy using near infrared

Dec 12 2022

conventional treatment methods comprise extensive surgical resection radiotherapy and chemotherapy consequently the management of bone tumors and bone regeneration poses significant clinical challenges photothermal tumor therapy has attracted considerable attention owing to its minimal invasiveness and high selectivity

photothermal chemotherapy enhancing tumor immunotherapy **by**

Nov 11 2022

when mmh nps were coinjected with an anti ox40 antibody in colorectal cancer the highest antitumor efficacy and a robust immune effect were achieved this work provides a novel combined therapeutic strategy which will hold great promise in future tumor therapy

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