

Accepted Manuscript

AI Egen based drug delivery systems for cancer therapy

Yansong Dong, Bin Liu, Youyong Yuan



PII: S0168-3659(18)30571-6
DOI: doi:[10.1016/j.jconrel.2018.09.028](https://doi.org/10.1016/j.jconrel.2018.09.028)
Reference: COREL 9480
To appear in: *Journal of Controlled Release*
Received date: 16 July 2018
Revised date: 18 September 2018
Accepted date: 30 September 2018

Please cite this article as: Yansong Dong, Bin Liu, Youyong Yuan , AI Egen based drug delivery systems for cancer therapy. Corel (2018), doi:[10.1016/j.jconrel.2018.09.028](https://doi.org/10.1016/j.jconrel.2018.09.028)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

AIEgen Based Drug Delivery Systems for Cancer Therapy

Yansong Dong,[†] Bin Liu,^{*,§} and Youyong Yuan^{*,†}

[†] Institutes for Life Sciences, School of Medicine and National Engineering Research Center for Tissue Restoration and Reconstruction, South China University of Technology, Guangzhou, Guangdong 510006, China

[§] Department of Chemical and Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, Singapore

*Corresponding author (E-mail: cheliub@nus.edu.sg; yuanyy@scut.edu.cn)

Abstract:

Fluorescent drug delivery systems provide a means to track drug release, trace processes of translocation, monitor excretion of anticancer agents and predict therapeutic responses. Traditional fluorescent dye-labeled drug delivery systems often suffer from notorious aggregation-caused quenching (ACQ) with greatly impeded imaging performance. The emerging fluorogens with aggregation-induced emission characteristics (AIEgens) have provided an elegant alternative to tackle this challenge. Recently, fluorescent drug delivery systems based on AIEgens which combine fluorescence imaging and drug delivery have been extensively studied for the development of theranostic nanomedicine. In this review, we summarize the recent development of fluorescent drug delivery systems using AIEgens as the signal reporter. This review is organized according to the drug

Download English Version:

<https://daneshyari.com/en/article/11262929>

Download Persian Version:

<https://daneshyari.com/article/11262929>

[Daneshyari.com](https://daneshyari.com)