

# Accepted Manuscript

Nanoparticle co-delivery of wortmannin and cisplatin synergistically enhances chemoradiotherapy and reverses platinum resistance in ovarian cancer models

Maofan Zhang, C. Tilden Hagan, IV, Yuangzeng Min, Hayley Foley, Xi Tian, Feifei Yang, Yu Mi, Kin Man Au, Yusra Medik, Kyle Roche, Kyle Wagner, Zachary Rodgers, Andrew Z. Wang

PII: S0142-9612(18)30233-3

DOI: [10.1016/j.biomaterials.2018.03.055](https://doi.org/10.1016/j.biomaterials.2018.03.055)

Reference: JBMT 18581

To appear in: *Biomaterials*

Received Date: 9 July 2017

Revised Date: 28 March 2018

Accepted Date: 31 March 2018

Please cite this article as: Zhang M, Hagan IV CT, Min Y, Foley H, Tian X, Yang F, Mi Y, Au KM, Medik Y, Roche K, Wagner K, Rodgers Z, Wang AZ, Nanoparticle co-delivery of wortmannin and cisplatin synergistically enhances chemoradiotherapy and reverses platinum resistance in ovarian cancer models, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.03.055.

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.



**Nanoparticle co-delivery of wortmannin and cisplatin synergistically enhances chemoradiotherapy and reverses platinum resistance in ovarian cancer models.**

Maofan Zhang<sup>a,b,c</sup>, C. Tilden Hagan IV<sup>b,c,d</sup>, Yuangzeng Min<sup>b,c</sup>, Hayley Foley<sup>b,c</sup>, Xi Tian<sup>b,c</sup>, Feifei Yang<sup>b,c,e</sup>, Yu Mi<sup>b,c</sup>, Kin Man Au<sup>b,c</sup>, Yusra Medik<sup>b,c</sup>, Kyle Roche<sup>b,c</sup>, Kyle Wagner<sup>b,c</sup>, Zachary Rodgers<sup>b,f</sup>, and Andrew Z. Wang<sup>b,c,†</sup>.

<sup>a</sup>Department of Pharmaceutics, School of Pharmacy, China Medical University, Shenyang, Liaoning, 110122, P.R. China

<sup>b</sup>Laboratory of Nano- and Translational Medicine, Lineberger Comprehensive Cancer Center, Carolina Center for Cancer Nanotechnology Excellence, Carolina Institute of Nanomedicine, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599, USA

<sup>c</sup>Department of Radiation Oncology, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599, USA

<sup>d</sup>UNC/NCSU Joint Department of Biomedical Engineering, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599, USA

<sup>e</sup>Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100193, P.R. China

<sup>f</sup>Department of Chemistry, Westminster College, New Wilmington, PA 16172, USA

<sup>†</sup>Corresponding author. Email: [zawang@med.unc.edu](mailto:zawang@med.unc.edu)

\*The authors report no conflicts of competing interests.

Download English Version:

<https://daneshyari.com/en/article/6484529>

Download Persian Version:

<https://daneshyari.com/article/6484529>

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