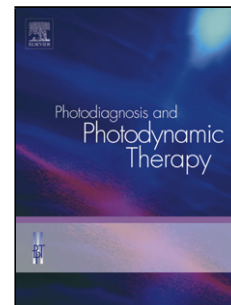


Accepted Manuscript

Title: Photodynamic therapy enhances the efficacy of gene-directed enzyme prodrug therapy

Authors: Catherine Christie, Aftin Pomeroy, Rohit Nair, Kristian Berg, Henry Hirschberg



PII: S1572-1000(17)30010-8
DOI: <http://dx.doi.org/doi:10.1016/j.pdpdt.2017.02.016>
Reference: PDPDT 915

To appear in: *Photodiagnosis and Photodynamic Therapy*

Received date: 26-1-2017
Revised date: 10-2-2017

Please cite this article as: Christie Catherine, Pomeroy Aftin, Nair Rohit, Berg Kristian, Hirschberg Henry. Photodynamic therapy enhances the efficacy of gene-directed enzyme prodrug therapy. *Photodiagnosis and Photodynamic Therapy* <http://dx.doi.org/10.1016/j.pdpdt.2017.02.016>

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.

Photodynamic therapy enhances the efficacy of gene-directed enzyme prodrug therapy.

Catherine Christie^a, Aftin D Pomeroy^a, Rohit Nair^a, Kristian Berg^b, & Henry Hirschberg^a

^aBeckman Laser Institute and Medical Clinic¹, University of California, Irvine

1002 Health Sciences Rd Irvine, CA 92617 USA

^bDept. of Radiation Biology, The Norwegian Radium Hospital, Oslo University Hospital, Oslo
Norway

Corresponding author

Henry Hirschberg

hhirschb@uci.edu

Highlights

- A method is proposed to enhance the efficacy of suicide gene therapy for cancer.
- The therapy involves the enzymatic conversion of a non-toxic drug to a toxic one.
- PDT has been demonstrated to further increase the toxicity of the converted drug.
- Enhancement occurs for PDT treatment either before or after cell drug exposure.

Download English Version:

<https://daneshyari.com/en/article/5682369>

Download Persian Version:

<https://daneshyari.com/article/5682369>

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