

# Accepted Manuscript



A novel manganese-porphyrin superoxide dismutase-mimetic widens the therapeutic margin in a pre-clinical head and neck cancer model

Kathleen A. Ashcraft, Mary-Keara Boss, Artak Tovmasyan, Kingshuk Roy Choudhury, Andrew N. Fontanella, Kenneth H. Young, Gregory M. Palmer, Samuel R. Birer, Chelsea D. Landon, Won Park, Shiva K. Das, Tin Weitner, Huaxin Sheng, David S. Warner, David M. Brizel, Ivan Spasojevic, Ines Batinic-Haberle, Mark W. Dewhirst

PII: S0360-3016(15)03074-6

DOI: [10.1016/j.ijrobp.2015.07.2283](https://doi.org/10.1016/j.ijrobp.2015.07.2283)

Reference: ROB 23090

To appear in: *International Journal of Radiation Oncology • Biology • Physics*

Received Date: 23 May 2015

Revised Date: 20 July 2015

Accepted Date: 24 July 2015

Please cite this article as: Ashcraft KA, Boss M-K, Tovmasyan A, Choudhury KR, Fontanella AN, Young KH, Palmer GM, Birer SR, Landon CD, Park W, Das SK, Weitner T, Sheng H, Warner DS, Brizel DM, Spasojevic I, Batinic-Haberle I, Dewhirst MW, A novel manganese-porphyrin superoxide dismutase-mimetic widens the therapeutic margin in a pre-clinical head and neck cancer model, *International Journal of Radiation Oncology • Biology • Physics* (2015), doi: 10.1016/j.ijrobp.2015.07.2283.

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.

**A novel manganese-porphyrin superoxide dismutase-mimetic widens the therapeutic margin in a pre-clinical head and neck cancer model**

Kathleen A. Ashcraft <sup>1</sup>, Mary-Keara Boss <sup>2</sup>, Artak Tovmasyan <sup>1</sup>, Kingshuk Roy Choudhury <sup>3</sup>, Andrew N. Fontanella <sup>4</sup>, Kenneth H. Young <sup>1</sup>, Gregory M. Palmer <sup>1</sup>, Samuel R. Birer <sup>1</sup>, Chelsea D. Landon <sup>1</sup>, Won Park <sup>1</sup>, Shiva K. Das <sup>5</sup>, Tin Weitner <sup>1</sup>, Huaxin Sheng <sup>7</sup>, David S. Warner <sup>7</sup>, David M. Brizel <sup>1,8</sup>, Ivan Spasojevic <sup>6</sup>, Ines Batinic-Haberle <sup>1</sup>, Mark W. Dewhirst <sup>1,3</sup>

## Author affiliations:

1. Department of Radiation Oncology, Duke University Medical Center, Durham, NC 27710
2. North Carolina State College of Veterinary Medicine, Department of Molecular Biomedical Sciences, Raleigh, NC 27607
3. Department of Biostatistics and Bioinformatics, Duke University, Durham, NC 27710
4. Department of Biomedical Engineering, Duke University, NC 27710
5. Department of Radiation Oncology, Physics and Computing Division, University of North Carolina School of Medicine, Chapel Hill, NC 27599
6. Department of Medicine, Duke University Medical Center, Durham, NC 27710
7. Department of Anesthesiology, Duke University Medical Center, Durham, NC 27710
8. Department of Surgery, Duke University Medical Center, Durham, NC 27710

**Corresponding Author:**

Mark W. Dewhirst, Department of Radiation Oncology, Duke University Medical Center, Box 3455, Medical Sciences Research Building 1, Room 201, Durham, NC 27710

Phone: 919-684-4180

Fax: 919-684-8718

E-mail: [mark.dewhirst@duke.edu](mailto:mark.dewhirst@duke.edu)

Running Title: MnBuOE widens the HNC therapeutic margin

Download English Version:

<https://daneshyari.com/en/article/8215925>

Download Persian Version:

<https://daneshyari.com/article/8215925>

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