

Accepted Manuscript

Liposome-induced immunosuppression and tumor growth is mediated by macrophages and mitigated by liposome-encapsulated alendronate

Robin Rajan, Manoj K. Sabnani, Vikram Mavinkurve, Hilary Shmeeda, Hossein Mansouri, Sandrine Bonkougou, Alexander D. Le, Laurence M. Wood, Alberto A. Gabizon, Ninh M. La-Beck



PII: S0168-3659(17)31093-3
DOI: doi:[10.1016/j.jconrel.2017.12.023](https://doi.org/10.1016/j.jconrel.2017.12.023)
Reference: COREL 9103

To appear in: *Journal of Controlled Release*

Received date: 21 July 2017
Revised date: 20 December 2017
Accepted date: 21 December 2017

Please cite this article as: Robin Rajan, Manoj K. Sabnani, Vikram Mavinkurve, Hilary Shmeeda, Hossein Mansouri, Sandrine Bonkougou, Alexander D. Le, Laurence M. Wood, Alberto A. Gabizon, Ninh M. La-Beck , Liposome-induced immunosuppression and tumor growth is mediated by macrophages and mitigated by liposome-encapsulated alendronate. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Corel(2017), doi:[10.1016/j.jconrel.2017.12.023](https://doi.org/10.1016/j.jconrel.2017.12.023)

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.

Liposome-induced immunosuppression and tumor growth is mediated by macrophages and mitigated by liposome-encapsulated alendronate

Robin Rajan^a, Manoj K. Sabnani^{a,1}, Vikram Mavinkurve^{a,2}, Hilary Shmeeda^b, Hossein Mansouri^c, Sandrine Bonkougou^{a,3}, Alexander D. Le^a, Laurence M. Wood^a, Alberto A. Gabizon^{b,d}, Ninh M. La-Beck^a

Affiliations:

- a. Department of Immunotherapeutics and Biotechnology, Texas Tech University Health Sciences Center School of Pharmacy, Abilene, TX, USA
- b. Laboratory of Experimental Oncology, Shaare Zedek Medical Center, Jerusalem, Israel
- c. Department of Mathematics and Statistics, Texas Tech University, Lubbock, TX, USA
- d. Hebrew University-School of Medicine, Jerusalem, Israel

Running title: Impact of alendronate on liposome-induced immune modulation

Financial support: This work was funded by a National Institutes of Health grant (NCI 1R15CA192097) awarded to NML. Both NML and LMW also received research support from the Development Corporation of Abilene. All authors declare that they have no conflicts of interests.

Parts of this work have been presented at the American Association for Cancer Research 2016 Annual Meeting in New Orleans, LA, and the Mechanisms and Barriers in Nanomedicine Workshop 2016 in Breckenridge, CO.

Correspondence: Ninh M. La-Beck, Pharm.D.
Department of Immunotherapeutics and Biotechnology
Texas Tech University Health Sciences Center School of Pharmacy
1718 Pine St, Abilene, TX 79601
Phone: 325-696-0433
Fax: 325-676-3875
Email: irene.la-beck@ttuhsc.edu

Laurence M. Wood, Ph.D.
Department of Immunotherapeutics and Biotechnology
Texas Tech University Health Sciences Center School of Pharmacy
1718 Pine St, Abilene, TX 79601
Phone: 325-696-0431
Fax: 325-676-3875
Email: Laurence.wood@ttuhsc.edu

Word count: 6543 (body), 267 (abstract); References: 76; Figures: 8; Supplementary materials: 11 Tables, 6 Figures

Footnotes:

- 1) Current affiliation: Department of Biology, University of Texas at Arlington, Arlington, TX
- 2) Current affiliation: Memorial-Sloan Kettering Cancer Center, New York, NY
- 3) Current affiliation: Champions Oncology, Rockville, MD

Download English Version:

<https://daneshyari.com/en/article/7860376>

Download Persian Version:

<https://daneshyari.com/article/7860376>

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