

Accepted Manuscript

Focused ultrasound triggered release of tyrosine kinase inhibitor from thermosensitive liposomes for treatment of renal cell carcinoma

Caleb Abshire, Hakm Y. Murad, Jaspreet S. Arora, James Liu, Sree Harsha Mandava, Vijay T. John, Damir B. Khismatullin, Benjamin R. Lee

PII: S0022-3549(17)30061-8

DOI: [10.1016/j.xphs.2017.01.027](https://doi.org/10.1016/j.xphs.2017.01.027)

Reference: XPHS 635

To appear in: *Journal of Pharmaceutical Sciences*

Received Date: 8 April 2016

Revised Date: 16 December 2016

Accepted Date: 24 January 2017

Please cite this article as: Abshire C, Murad HY, Arora JS, Liu J, Mandava SH, John VT, Khismatullin DB, Lee BR, Focused ultrasound triggered release of tyrosine kinase inhibitor from thermosensitive liposomes for treatment of renal cell carcinoma, *Journal of Pharmaceutical Sciences* (2017), doi: 10.1016/j.xphs.2017.01.027.

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.



Focused ultrasound triggered release of tyrosine kinase inhibitor from thermosensitive liposomes for treatment of renal cell carcinoma

Caleb Abshire^{a†}, Hakm Y. Murad^{b,c†}, Jaspreet S. Arora^{d,e}, James Liu^a, Sree Harsha Mandava^a, Vijay T. John^{d,e}, Damir B. Khismatullin^{b,c,f}, and Benjamin R Lee^{a,f}.

^a Department of Urology, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112, USA

^b Department of Biomedical Engineering, School of Science and Engineering, Tulane University, 6823 St. Charles Avenue, New Orleans, LA 70118, USA

^c Tulane Institute for Integrative Engineering for Health and Medicine, Tulane University, 1324 Tulane Avenue, New Orleans, LA 70112, USA

^d Department of Chemical and Biomolecular Engineering, School of Science and Engineering, Tulane University, 6823 St. Charles Avenue, New Orleans, LA 70118, USA

^e Vector-Borne Infectious Disease Research Center, Tulane University, 1324 Tulane Avenue, New Orleans, LA 70112, USA

^f Tulane Cancer Center, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112, USA

† These authors contributed equally to this work

Corresponding author:

Benjamin R. Lee, MD

Professor of Urology & Oncology

Tulane University School of Medicine

1430 Tulane Ave, SL42, Room 3522

New Orleans, LA 70112

Tel: 504 988 2985

Fax: 504 988 5059

Email: brlee@tulane.edu

Word count: 3,384

Abstract: 149

Figures: 8

References: 44

This work was supported by the Tulane University School of Medicine Endourology and Nanotechnology Research Fund (B.R.L.), National Science Foundation grant 1438537 (D.B.K.), American Heart Association grant 13GRNT17200013 (D.B.K.), Louisiana Board of Regents grant LEQSF-EPS(2012)-PFUND-292 (D.B.K.), and Louisiana Board of Regents grant LEQSF-EPS(2015)-PFUND-411 (V.T.J.). H.Y.M. gratefully acknowledges grant support from Newcomb-Tulane College and the Center for Engaged Learning and Teaching of Tulane University.

Download English Version:

<https://daneshyari.com/en/article/8514291>

Download Persian Version:

<https://daneshyari.com/article/8514291>

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