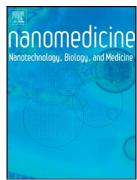
### Accepted Manuscript

Cell type-specific pharmacological kinase inhibition for cancer chemoprevention

Manjeet Deshmukh PhD, Shigeki Nakagawa MD, PhD, Takaaki Higashi MD, PhD, Adam Vincek PhD, Anu Venkatesh BS, Marina Ruiz de Galarreta PhD, Anna P Koh BA, Nicolas Goossens MD, MSc, Hadassa Hirschfield BA, C Billie Bian BA, Naoto Fujiwara MD, PhD, Atsushi Ono MD, PhD, Hiroki Hoshida, Mohamed El-Abtah, Noor B Ahmad, Amaia Lujambio PhD, Roberto Sanchez PhD, Bryan C Fuchs PhD, Klaas Poelstra PhD, Jai Prakash PhD, Yujin Hoshida MD, PhD



PII:	S1549-9634(17)30199-5
DOI:	doi: 10.1016/j.nano.2017.11.004
Reference:	NANO 1689
To appear in:	Nanomedicine: Nanotechnology, Biology, and Medicine
Received date:	18 June 2017
Revised date:	18 September 2017
Accepted date:	8 November 2017

Please cite this article as: Deshmukh Manjeet, Nakagawa Shigeki, Higashi Takaaki, Vincek Adam, Venkatesh Anu, de Galarreta Marina Ruiz, Koh Anna P, Goossens Nicolas, Hirschfield Hadassa, Bian C Billie, Fujiwara Naoto, Ono Atsushi, Hoshida Hiroki, El-Abtah Mohamed, Ahmad Noor B, Lujambio Amaia, Sanchez Roberto, Fuchs Bryan C, Poelstra Klaas, Prakash Jai, Hoshida Yujin, Cell type-specific pharmacological kinase inhibition for cancer chemoprevention, *Nanomedicine: Nanotechnology, Biology, and Medicine* (2017), doi: 10.1016/j.nano.2017.11.004

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.

## **ACCEPTED MANUSCRIPT**

#### Cell type-specific pharmacological kinase inhibition for cancer chemoprevention

Manjeet Deshmukh<sup>1\*</sup>, Shigeki Nakagawa<sup>1,2\*</sup>, Takaaki Higashi<sup>1,2\*</sup>, Adam Vincek<sup>3</sup>, Anu Venkatesh<sup>1</sup>, <u>Marina Ruiz de Galarreta<sup>4</sup></u>, Anna P Koh<sup>1</sup>, Nicolas Goossens<sup>1,5</sup>, Hadassa Hirschfield<sup>1</sup>, C Billie Bian<sup>1</sup>, Naoto Fujiwara<sup>1,6</sup>, Atsushi Ono<sup>1,7</sup>, Hiroki Hoshida<sup>1</sup>, Mohamed El-Abtah<sup>1</sup>, Noor B Ahmad<sup>1</sup>, <u>Amaia Lujambio<sup>4</sup></u>, Roberto Sanchez<sup>3</sup>, Bryan C Fuchs<sup>8</sup>, Klaas Poelstra<sup>9</sup>, Jai Prakash<sup>10</sup>, Yujin Hoshida<sup>1</sup>

on behalf of *Precision Liver Cancer Prevention Consortium* 

<sup>1</sup>Division of Liver Diseases, Department of Medicine, Tisch Cancer Institute, Graduate School of Biomedical Sciences. Icahn School of Medicine at Mount Sinai, USA.

<sup>2</sup>Department of Gastroenterological Surgery, Graduate School of Medical Sciences, Kumamoto University, Japan.

<sup>3</sup>Department of Pharmacological Sciences, Icahn School of Medicine at Mount Sinai, USA.

<sup>4</sup>Department of Oncological Sciences, Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, USA.

<sup>5</sup>Division of Gastroenterology and Hepatology, Geneva University Hospital, Geneva, Switzerland.

<sup>6</sup>Department of Gastroenterology, Graduate School of Medicine, University of Tokyo, Japan.

<sup>7</sup>Department of Gastroenterology and Metabolism, Applied Life Sciences, Institute of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan.

<sup>8</sup>Division of Surgical Oncology, Massachusetts General Hospital Cancer Center, Harvard Medical School, Boston, USA.

<sup>9</sup>Department of Pharmacokinetics, Toxicology and Targeting, University of Groningen, Groningen, The Netherlands, Netherlands.

<sup>10</sup>Department of Targeted Therapeutics, University of Twente, Netherlands.

\*Equal contribution

Correspondence: Yujin Hoshida, MD, PhD Division of Liver Diseases, Department of Medicine Tisch Cancer Institute Graduate School of Biomedical Sciences Icahn School of Medicine at Mount Sinai 1470 Madison Ave, Box 1123 New York, NY 10029 yujin.hoshida@mssm.edu

#### **Conflict of interest**

The authors have declared that no conflict of interest exists.

#### Funding

This work is supported by Uehara Memorial Foundation (to S.N.), Japan Society for the Promotion of Science, Program for advancing strategic international networks to accelerate the circulation of talented researchers (to T.H.), and U.S. NIH/NIDDK (DK099558), European

Download English Version:

# https://daneshyari.com/en/article/7238798

Download Persian Version:

https://daneshyari.com/article/7238798

Daneshyari.com