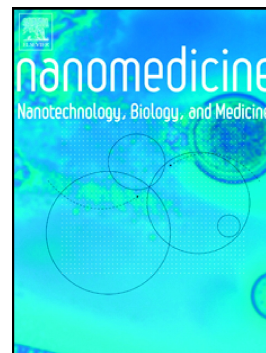


Accepted Manuscript

Early detection of pancreatic cancers in liquid biopsies by ultrasensitive fluorescence Nanobiosensors



Madumali Kalubowilage, Obdulia Covarrubias-Zambrano, Aruni P. Malalasekera, Sebastian O. Wendel, Hongwang Wang, Asanka S. Yapa, Lauren Chlebanowski, Yubisela Toledo, Raquel Ortega, Katharine E. Janik, Tej B. Shrestha, Christopher T. Culbertson, Anup Kasi, Stephen Williamson, Deryl L. Troyer, Stefan H. Bossmann

PII: S1549-9634(18)30101-1
DOI: doi:[10.1016/j.nano.2018.04.020](https://doi.org/10.1016/j.nano.2018.04.020)
Reference: NANO 1810

To appear in:

Received date: 7 March 2018
Revised date: 19 April 2018
Accepted date: 24 April 2018

Please cite this article as: Madumali Kalubowilage, Obdulia Covarrubias-Zambrano, Aruni P. Malalasekera, Sebastian O. Wendel, Hongwang Wang, Asanka S. Yapa, Lauren Chlebanowski, Yubisela Toledo, Raquel Ortega, Katharine E. Janik, Tej B. Shrestha, Christopher T. Culbertson, Anup Kasi, Stephen Williamson, Deryl L. Troyer, Stefan H. Bossmann , Early detection of pancreatic cancers in liquid biopsies by ultrasensitive fluorescence Nanobiosensors. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Nano(2018), doi:[10.1016/j.nano.2018.04.020](https://doi.org/10.1016/j.nano.2018.04.020)

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.

Early Detection of Pancreatic Cancers in Liquid Biopsies by Ultrasensitive Fluorescence Nanobiosensors

Madumali Kalubowilage, PhD^{a‡}, Obdulia Covarrubias-Zambrano^{a‡}, Aruni P. Malalasekera, PhD^{a‡}, Sebastian O. Wendel, PhD^{ab‡}, Hongwang Wang, PhD^a, Asanka S. Yapa, PhD^a, Lauren Chlebanowski^a, Yubisela Toledo^a, Raquel Ortega^a, Katharine E. Janik^a, Tej B. Shrestha, PhD^b, Christopher T. Culbertson, PhD^a, Anup Kasi, MD^c, Stephen Williamson, MD^c, Deryl L. Troyer, PhD, DVM^b, Stefan H. Bossmann, PhD^{a*}

[‡]These authors have contributed equally

^a *Department of Chemistry, Kansas State University, Manhattan, KS, USA*

^b *Department of Anatomy & Physiology, Kansas State University, Manhattan, KS, USA*

^c *University of Kansas Medical School, Kansas City, KS, USA*

Corresponding author:

Prof. Dr. Stefan H. Bossmann, Kansas State University, Department of Chemistry

Manhattan, KS 66506-0401m Phone: 785-532-6817, Fax: 785-532-6666

Email: sbossman@ksu.edu

This work was funded by NSF (CBET 1159966 and 1337438) and the Johnson Cancer Center at Kansas State University. This research is supported in part by the Vendig Cancer Research Fund, established in 2016 by 1952 K-State alumnus Lee Vendig and his son, Lee Vendig II.

Download English Version:

<https://daneshyari.com/en/article/7237895>

Download Persian Version:

<https://daneshyari.com/article/7237895>

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