

## Accepted Manuscript

Title: Understanding Preanalytical Variables and their Effects on Clinical Biomarkers of Oncology and Immunotherapy

Authors: Lokesh Agrawal, Kelly B. Engel, Sarah R. Greytak, Helen M. Moore



PII: S1044-579X(17)30248-1  
DOI: <https://doi.org/10.1016/j.semcancer.2017.12.008>  
Reference: YSCBI 1428

To appear in: *Seminars in Cancer Biology*

Received date: 26-9-2017  
Revised date: 7-12-2017  
Accepted date: 13-12-2017

Please cite this article as: Agrawal Lokesh, Engel Kelly B, Greytak Sarah R, Moore Helen M. Understanding Preanalytical Variables and their Effects on Clinical Biomarkers of Oncology and Immunotherapy. *Seminars in Cancer Biology* <https://doi.org/10.1016/j.semcancer.2017.12.008>

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.

Understanding Preanalytical Variables and their Effects on Clinical Biomarkers of Oncology and  
Immunotherapy

Lokesh Agrawal<sup>1</sup>, Kelly B. Engel<sup>1</sup>, Sarah R. Greytak<sup>1</sup>, & Helen M. Moore<sup>1\*</sup>

\* Corresponding Author

<sup>1</sup>Biorepositories and Biospecimen Research Branch (BBRB)

Cancer Diagnosis Program

Division of Cancer Treatment and Diagnosis

National Cancer Institute

9609 Medical Center Drive,

Bethesda, MD 20892-9728

Phone: (240) 276-5713

FAX: (240) 276-7898

E-mail: moorehe@mail.nih.gov

Download English Version:

<https://daneshyari.com/en/article/10156984>

Download Persian Version:

<https://daneshyari.com/article/10156984>

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