

## Accepted Manuscript

Title: The Impact of Tumor Cell Metabolism on T Cell-Mediated Immune Responses and Immuno-Metabolic Biomarkers in Cancer

Authors: Grégory Noël, Mireille Langouo Fontsa, Karen Willard-Gallo



PII: S1044-579X(17)30284-5  
DOI: <https://doi.org/10.1016/j.semcancer.2018.03.003>  
Reference: YSCBI 1462

To appear in: *Seminars in Cancer Biology*

Received date: 18-12-2017  
Revised date: 2-3-2018  
Accepted date: 19-3-2018

Please cite this article as: Noël Grégory, Fontsa Mireille Langouo, Willard-Gallo Karen. The Impact of Tumor Cell Metabolism on T Cell-Mediated Immune Responses and Immuno-Metabolic Biomarkers in Cancer. *Seminars in Cancer Biology* <https://doi.org/10.1016/j.semcancer.2018.03.003>

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.

The Impact of Tumor Cell Metabolism on T Cell-Mediated Immune Responses and Immuno-Metabolic Biomarkers in Cancer

Grégory Noël, Mireille Langouo Fontsa and Karen Willard-Gallo\*

Molecular Immunology Unit, Institut Jules Bordet, Université Libre de Bruxelles, Brussels, Belgium

**\*Corresponding author:** Karen Willard-Gallo, Molecular Immunology Unit, Institut Jules Bordet, Université Libre de Bruxelles, 127 Blvd. de Waterloo, B-1000 Brussels, Belgium, Tel: +32-2-541-3739, Fax: +32-2-541-7325, Email: karen.willard-gallo@bordet.be

The role of adaptive immunity is increasingly recognized as an important element both in the process of tumorigenesis and in the patient's response to treatment. While this understanding has led to new therapeutic strategies that potentiate the activities of tumor infiltrating lymphocytes, only a minority of patients attain durable responses. Metabolic activities in the tumor microenvironment, including hypoxia and acidity, can adversely affect immune responses, making the identification of metabolic biomarkers critically important for understanding and employing immunotherapies.

Keywords: TIL; immunotherapy; cancer metabolism; hypoxia; metabolic biomarkers

Download English Version:

<https://daneshyari.com/en/article/10156987>

Download Persian Version:

<https://daneshyari.com/article/10156987>

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