

# Accepted Manuscript

The role of STAT3 in leading the crosstalk between human cancers and the immune system

Yu Wang, Yicheng Shen, Sinan Wang, Qiang Shen, Xuan Zhou



PII: S0304-3835(17)30769-3

DOI: [10.1016/j.canlet.2017.12.003](https://doi.org/10.1016/j.canlet.2017.12.003)

Reference: CAN 13634

To appear in: *Cancer Letters*

Received Date: 1 November 2017

Revised Date: 1 December 2017

Accepted Date: 1 December 2017

Please cite this article as: Y. Wang, Y. Shen, S. Wang, Q. Shen, X. Zhou, The role of STAT3 in leading the crosstalk between human cancers and the immune system, *Cancer Letters* (2018), doi: 10.1016/j.canlet.2017.12.003.

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.

**Abstract**

The development and progression of human cancers are continuously and dynamically regulated by intrinsic and extrinsic factors. As a converging point of multiple oncogenic pathways, signal transducer and activator of transcription 3 (STAT3) is constitutively activated both in tumor cells and tumor-infiltrated immune cells. Activated STAT3 persistently triggers tumor progression through direct regulation of oncogenic gene expression. Apart from its oncogenic role in regulating gene expression in tumor cells, STAT3 also paves the way for human cancer growth through immunosuppression. Activated STAT3 in immune cells results in inhibition of immune mediators and promotion of immunosuppressive factors. Therefore, STAT3 modulates the interaction between tumor cells and host immunity. Accumulating evidence suggests that targeting STAT3 may enhance anti-cancer immune responses and rescue the suppressed immunologic microenvironment in tumors. Taken together, STAT3 has emerged as a promising target in cancer immunotherapy.

Download English Version:

<https://daneshyari.com/en/article/8434895>

Download Persian Version:

<https://daneshyari.com/article/8434895>

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