



RESEARCH

# IFN- $\alpha$ / $\beta$ /IFN- $\gamma$ /IL-15 pathways identify GBP1-expressing tumors with an immune-responsive phenotype

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## Abstract

Immunotherapy is widely used in cancer treatment; however, only a subset of patients responds well to it. Significant efforts have been made to identify patients who will benefit from immunotherapy. Successful anti-tumor immunity depends on an intact cancer-immunity cycle, especially long-lasting CD8<sup>+</sup> T-cell responses. Interferon (IFN)- $\alpha$ / $\beta$ /IFN- $\gamma$ /interleukin (IL)-15 pathways have been reported to be involved in the development of CD8<sup>+</sup> T cells. And these pathways may predict responses to immunotherapy. Herein, we aimed to analyze multiple public databases to investigate whether IFN- $\alpha$ / $\beta$ /IFN- $\gamma$ /IL-15 pathways could be used to predict the response to immunotherapy. Results showed that IFN- $\alpha$ / $\beta$ /IFN- $\gamma$ /IL-15 pathways could efficiently predict immunotherapy response, and guanylate-binding protein 1 (*GBP1*) could represent the IFN- $\alpha$ / $\beta$ /IFN- $\gamma$ /IL-15 pathways. In public and private cohorts, we further demonstrated that *GBP1* could efficiently predict the response to immunotherapy. Functionally, *GBP1* was mainly expressed in macrophages and strongly correlated with chemokines involved in T-cell migration. Therefore, our study comprehensively investigated the potential role of GBP1 in immunotherapy, which could serve as a novel biomarker for immunotherapy and a target for drug development.

**Keywords** GBP1 · Tumor microenvironment · Immunotherapy · Biomarker

Lei Wang, Yuxuan Wei, and Zheng Jin have contributed equally to this study.

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## Abbreviations

AUC	Area under the receiver operating characteristic curve
DEGs	Differentially expressed genes
DAB	Diaminobenzidine
GBP1	Guanylate-binding protein 1
GEO	Gene Expression Omnibus
GEPs	Gene expression profiles
ICI	Immune checkpoint inhibitor
ICB	Immune checkpoint blockade
IHC	Immunohistochemistry
MDSCs	Myeloid-derived suppressor cells
NSCLC	Non-small cell lung cancer
ORR	Objective response rate
OS	Overall survival
TAMs	Tumor-associated macrophages
TCGA	The Cancer Genome Atlas
TMB	Tumor mutational burden
TME	Tumor microenvironment
UMAP	Uniform Manifold Approximation and Projection

# 15 Pathways To Success

**L Cohen**



## 15 Pathways To Suceeb:

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makes a student competitive for a surgical program Sections will be devoted to mentorship research experience and personal experiences that lead to success The editors will also focus on gender and work life balance issues that often are perceived as barriers to a career in academic surgery It will also provide key dates and sample application information for students to use as templates

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Reauthorizing the Higher Education Act United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions,2017

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**The Affordable Care Act as a National Experiment** Harry P. Selker,2021-07-27 The landmark 2010 Patient Protection and Affordable Care Act ACA or Obamacare is a topic of great debate in mainstream academic and scientific media that generated strong opinions across the political spectrum and our nation Soon after the enactment of the ACA and the fierce debate that ensued The Affordable Care Act as a National Experiment was published by Springer in 2014 Now five years later just finishing an election year in which the ACA was a hotly debated issue the second edition of this title examines the history lessons and impact of this ground breaking legislation Now a decade since implementation nationally the ACA is the largest healthcare policy innovation in the United States in at least 50 years and one of our nation s largest healthcare experiments ever The history of public health and medicine shows us that to develop better solutions for important health problems we must innovate And when we try a

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*PISA Untapped Skills Realising the Potential of Immigrant Students* OECD,2012-07-16 This book provides an overview of the evidence emerging from PISA 2009 on the performance and socio economic background of children of immigrants their performance in school the effects of age at arrival and impacts of migration policies



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