



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

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**Pathways to Success** Nick Salafsky, Richard A. Margoluis, 2021-12-02 As environmental problems grow larger and more pressing conservation work has increasingly emphasized broad approaches to combat global scale crises of biodiversity loss invasive species and climate change Pathways to Success is a modern guide to building large scale transformative conservation programs capable of tackling the complex issues we now face In this strikingly illustrated volume coauthors Nick Salafsky and Richard Margoluis walk readers through fundamental concepts of effective program level design helping them to think strategically about project coordination funding and stakeholder input Pathways to Success is the definitive guide for conservation program managers and funders who want to increase the effectiveness of their work combating climate change species extinctions and the many challenges we face to keep our planet livable **15+ Pathways to Success** WOODALL, Gold, 1997-12-01 **PISA Learning beyond Fifteen Ten Years after PISA** OECD, 2012-04-04 This report focuses on the development of reading proficiency during the transition from adolescence to early adulthood **How Black Colleges Empower Black Students** Frank W. Hale, 2023-07-03 To their disadvantage few Americans and few in higher education know much about the successes of historically Black colleges and universities How is it that historically Black colleges graduate so many low income and academically poorly prepared students How do they manage to do so well with students as they are even when adopting open admissions policies In this volume contributors from a wide spectrum of Black colleges offer insights and examples of the policies and practice such as retention strategies co curricular activities and approaches to mentoring which underpin their disproportionate success with populations that too often fail in other institutions This book also challenges the myth that these colleges are segregated institutions and that teachers of color are essential to minority student success HBCUs employ large numbers of non Black faculty who demonstrate the ability to facilitate the success of African American students This book offers valuable lessons for faculty faculty developers student affairs personnel and administrators in the wider higher education community lessons that are all the more urgent as they face a growing racially diverse student population While for HBCUs themselves this book reaffirms the importance of their mission today it also raises issues they must address to maintain the edge they have achieved Contributors Pamela G Arrington Delbert Baker Susan Baker Stanley F Battle T J Bryan Terrolyn P Carter Ronnie L Collins Samuel DuBois Cook Elaine Johnson Copeland Marcela A Copes Quiester Craig Lawrence A Davis Jr Frances C Gordon Frank W Hale Jr B Denise Hawkins Karen A Holbrook James E Hunter Frank L Matthews Henry Ponder Anne S Pruitt Logan Talbert O Shaw Orlando L Taylor W Eric Thomas M Rick Turner Mervyn A Warren Charles V Willie James G Wingate [A How To Guide For Medical Students](#) Michael J. Englesbe, Michael O. Meyers, 2016-11-17 This book will be a how to guide for medical students interested in pursuing a career in academic surgery It will discuss personal traits and rationale for going into academic surgery It will review accomplishments as a medical student that are key components of beginning an academic career and highlight what

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

**GRASPED Pathways to Entrepreneurial Mastery** Steven Brough,2024-02-29 GRASPED Pathways to Entrepreneurial Mastery unfolds as an insightful guide to mastering the dual realms of business and personal growth With 20 essential strategies it covers innovation leadership digital transformation and personal well being The book is structured to offer practical advice real world examples and actionable steps for entrepreneurs aiming for success in both their professional and personal lives What sets this guide apart is its holistic approach seamlessly blending business acumen with personal development It s unique in offering a dual path to mastery emphasizing the synergy between personal well being and entrepreneurial success thus equipping readers for the challenges of a rapidly evolving business landscape while also fostering personal integrity and growth Embark on a transformative journey with GRASPED Pathways to Entrepreneurial Mastery This book is a beacon for ambitious individuals guiding them through the complexities of entrepreneurship while also nurturing personal growth It s designed not just as a business guide but as a comprehensive roadmap to achieving a harmonious balance between professional achievements and personal fulfillment Reauthorizing the Higher Education Act

United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions,2017 **Pathways to Success Through Identity-based Motivation** Daphna Oyserman,2015 Focusing on when the future self matters and how to reduce the shortfall between the self that one aspires to become and the outcomes that one actually attains Oyserman introduces the reader to the core theoretical framework of identity based motivation IBM theory **Providing More Students a Pathway to Success by Strengthening Career and Technical Education** United States. Congress. House. Committee on Education and the Workforce. Subcommittee on Early Childhood, Elementary, and Secondary Education,2017 **Saunders**

**Comprehensive Review for the NCLEX-PN® Examination - E-Book** Linda Anne Silvestri,Angela Silvestri,2024-01-04 Get the best review for the NCLEX PN exam from the leading NCLEX experts Written by Linda Anne Silvestri and Angela E Silvestri Saunders Comprehensive Review for the NCLEX PN Examination 9th Edition provides everything you need to prepare for success on the NCLEX PN The book includes a review of all nursing content areas more than 4 600 questions for the NCLEX detailed rationales test taking tips and strategies and questions for the Next Generation NCLEX NGN The Evolve companion website simulates the exam taking experience with customizable practice questions along with realistic practice tests Based on Silvestri s proven Pyramid to Success this complete review is a perennial favorite of students preparing for the NCLEX More than 4 600 practice questions in the text and on the Evolve companion website offer ample testing practice Detailed test taking strategy is included for each question offering clues for analyzing and uncovering the correct answer option with rationales provided for both correct and incorrect answers Pyramid Points icons indicate important information

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*Student Success in College* George D. Kuh, Jillian Kinzie, John H. Schuh, Elizabeth J. Whitt, 2011-01-07 *Student Success in College* describes policies programs and practices that a diverse set of institutions have used to enhance student achievement This book clearly shows the benefits of student learning and educational effectiveness that can be realized when these conditions are present Based on the Documenting Effective Educational Practice DEEP project from the Center for Postsecondary Research at Indiana University this book provides concrete examples from twenty institutions that other colleges and universities can learn from and adapt to help create a success oriented campus culture and learning environment

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*Official Gazette of the United States Patent and Trademark Office* ,1997      **The Futures of School Reform** Jal Mehta,Robert B. Schwartz,Frederick M. Hess,2012-09-01 The Futures of School Reform represents the culminating work of a three year discussion among national education leaders convened by the Harvard Graduate School of Education Based on the recognition that current education reform efforts have reached their limits the volume maps out a variety of bold visions that push the boundaries of our current thinking Taken together these visions identify the leverage points for generating dramatic change and highlight critical trade offs among different courses of action The goal of this book is not to present a menu of options Rather it is to surface contrasting assumptions tensions constraints and opportunities so that together we can better understand and act on the choices that lie before us

*15th Wear of Materials* Peter J. Blau,Steven L. Shaffer,2005-10-03 These proceedings of the 15th International Conference on Wear of Materials focus on the friction and wear of materials in various applications under different environments from the nanometer scale to the meter scale The conference provides a unique international forum for researchers and practitioners from different disciplines to exchange latest results Coverage includes Wear assessment and monitoring Wear modeling mechanisms mapping and prediction Wear corrosion testing and control Surface engineering for wear and wear corrosion control Development of new wear test methods and wear test methodologies Wear of materials for biomedical applications Wear of non equilibrium materials from atomic dimensions to the micro scale Wear of hard and superhard materials Wear of materials in the earthmoving minerals processing and mining industries

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**OECD Reviews of Migrant Education The Resilience of Students with an Immigrant Background Factors that Shape Well-being** OECD,2018-03-19 The Resilience of Students with an Immigrant Background Factors that Shape Well being reveals some of the difficulties students with an immigrant background encounter and where they receive the support they need

**GRASPED Pathways to Excellence** Steven Brough,2024-02-29 GRASPED Pathways to Excellence is envisioned as a comprehensive guide aimed at individuals seeking transformation in both personal and professional spheres It likely presents 20 innovative strategies designed to navigate through the complexities of achieving excellence covering a broad spectrum from enhancing leadership skills adopting new technologies for growth to fostering personal well being and creativity This guide s USP may lie in its dual focus on personal and professional development offering a holistic approach rarely found in traditional business or self help books It emphasizes the interconnectedness of personal well being and professional success providing readers with a unique toolkit designed for the modern landscape of work and life An introduction to GRASPED Pathways to Excellence might set the stage for a transformative journey highlighting the book s commitment to fostering growth innovation and balance It could invite readers to explore new dimensions of success promising not just strategies but a new perspective on excellence

**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

new strategy we are reminded that to innovate is to experiment This is the basis of all medical research public health interventions and health policy innovations Moreover in recent years there is an increasing emphasis on translational science research that always has an ultimate focus on having real impact on medical care and the public s health whether in translating from bench research to the bedside or from limited clinical use into widespread practice public health interventions or policy As with the previous edition the book opens with a chapter that gives a basic overview of The Affordable Care Act The second chapter which previously discussed the objectives of the ACA now takes a look at the successes unfinished work and impact of the ACA in the past ten years The third chapter now ponders the question of whether the ACA has protected patients since its implementation while its previous counterpart gave predictions for the future The chapters that follow highlight things such as Medicaid expansion and insurance reform under the ACA the Supreme Court Review of the ACA social determinants of health stories of the uninsured and stabilization of the ACA among others The book rounds out with a summary of what s next and the push for universal healthcare followed by an epilogue Due to the timely nature of the subject matter some chapters from the previous edition have been dropped and seven new chapters have been added in their place The remaining seven chapters from the previous edition have also been fully revised and updated Written by nationally known healthcare policy leaders who were involved directly in the creation and implementation of the ACA the second edition of The Affordable Care Act as a National Experiment again will examine the history and impact of this ground breaking legislation as well as recommend priorities objectives and next steps for translational research It is an essential resource for all healthcare providers as well as policy makers and academics

*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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