Resource Summary Report

Generated by PRECISE-TBI on Jul 30, 2026

Human Immunology Project Consortium

RRID:SCR_001491
Type: Tool

Proper Citation

Human Immunology Project Consortium (RRID:SCR_001491)

Resource Information

URL: http://www.immuneprofiling.org/

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Description: Consortium established to capitalize on recent advances in immune profiling methods in order to create a novel public resource that characterizes diverse states of the human immune system following infection; prior to and following vaccination against an infectious disease; or prior to and following treatment with an immune adjuvant that targets a known innate immune receptor(s). Through this program, well-characterized human cohorts are studied using a variety of modern analytic tools, including multiplex transcriptional, cytokine, and proteomic assays; multiparameter phenotyping of leukocyte subsets; assessment of leukocyte functional status; and multiple computational methods. Centralized research resources and a comprehensive, centralized database will be constructed for use by the greater scientific community. The information gained from the program will provide a comprehensive understanding of the human immune system and its regulation, and will reveal novel associations between components of the immune system and other biological systems, identify novel immune mediators and pathways, establish predictors of vaccine safety in different populations, and enable the rapid evaluation of different vaccine formulations and administration regimens in human populations.

Abbreviations: HIPC

Synonyms: immune profiling, immuneprofiling.org

Resource Type: data or information resource, organization portal, consortium, portal

Keywords: immune profiling, immune system, infection, vaccine, infectious disease, immune adjuvant, immune receptor, multiplex assay, phenotyping, systems biology, mass spectrometry, regulation, mediator, pathway, database, leukocyte, transcriptome, proteome

Related Condition: Infection, Vaccination, Treatment with immune adjuvant

Funding: NIAID

Availability: Free, Freely available

Resource Name: Human Immunology Project Consortium

Resource ID: SCR_001491

Alternate IDs: SciRes_000173

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260729T044017+0000

Ratings and Alerts

No rating or validation information has been found for Human Immunology Project Consortium.

No alerts have been found for Human Immunology Project Consortium.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Lien HJT, et al. (2024) Single-cell resolution of longitudinal blood transcriptome profiles in rheumatoid arthritis, systemic lupus erythematosus and healthy control pregnancies. Annals of the rheumatic diseases, 83(3), 300.

Unterman A, et al. (2022) Single-cell multi-omics reveals dyssynchrony of the innate and adaptive immune system in progressive COVID-19. Nature communications, 13(1), 440.

Morita A, et al. (2022) Time course of peripheral immunophenotypes of multisystem inflammatory syndrome in children. Clinical immunology (Orlando, Fla.), 236, 108955.

Klopack ET, et al. (2022) Social stressors associated with age-related T lymphocyte percentages in older US adults: Evidence from the US Health and Retirement Study. Proceedings of the National Academy of Sciences of the United States of America, 119(25), e2202780119.

Schroeder BA, et al. (2021) CD4+ T cell and M2 macrophage infiltration predict dedifferentiated liposarcoma patient outcomes. Journal for immunotherapy of cancer, 9(8).

Golovkin A, et al. (2021) Imbalanced Immune Response of T-Cell and B-Cell Subsets in Patients with Moderate and Severe COVID-19. Viruses, 13(10).

Marsh-Wakefield FM, et al. (2021) Making the most of high-dimensional cytometry data. Immunology and cell biology, 99(7), 680.

Canesin G, et al. (2020) Heme-Derived Metabolic Signals Dictate Immune Responses. Frontiers in immunology, 11, 66.

Zhao Y, et al. (2020) Single cell immune profiling of dengue virus patients reveals intact immune responses to Zika virus with enrichment of innate immune signatures. PLoS neglected tropical diseases, 14(3), e0008112.

Bhattacharya S, et al. (2018) ImmPort, toward repurposing of open access immunological assay data for translational and clinical research. Scientific data, 5, 180015.

Schultze JL, et al. (2018) Systems Medicine in Chronic Inflammatory Diseases. Immunity, 48(4), 608.

Bakken T, et al. (2017) Cell type discovery and representation in the era of high-content single cell phenotyping. BMC bioinformatics, 18(Suppl 17), 559.

Zheng J, et al. (2016) The Ontology of Biological and Clinical Statistics (OBCS) for standardized and reproducible statistical analysis. Journal of biomedical semantics, 7(1), 53.

Zimmermann MT, et al. (2016) System-Wide Associations between DNA-Methylation, Gene Expression, and Humoral Immune Response to Influenza Vaccination. PloS one, 11(3), e0152034.

Maglietta A, et al. (2016) The Immune Landscapes of Polypoid and Nonpolypoid Precancerous Colorectal Lesions. PloS one, 11(7), e0159373.

O'Connor JE, et al. (2014) Systems Biology and immune aging. Immunology letters, 162(1 Pt B), 334.

Backer RA, et al. (2014) A central role for Notch in effector CD8(+) T cell differentiation. Nature immunology, 15(12), 1143.