Resource Summary Report

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University of Pennsylvania Perelman School of Medicine Human Immunology Core Facility

RRID:SCR_022380
Type: Tool

Proper Citation

University of Pennsylvania Perelman School of Medicine Human Immunology Core Facility (RRID:SCR_022380)

Resource Information

URL: https://pathbio.med.upenn.edu/hic/site/

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Description: Core provides wet bench expertise and infrastructure support for early phase?clinical trials and other investigations. Offers purified cell subsets from healthy human apheresis donors. ?HIC staff are qualified to?perform blood (PBMC)?and tissue processing for viable cryopreservation following validated?standard operating procedures. Offers?range of immunological assays including digital ELISA, ELISA, ELISPOT, Luminex, flow cytometry and immune repertoire profiling (NGS of BCR and TCR rearrangements in bulk and single cell formats).Offers investigators expertise and guidance in clinical trial sample processing, regulatory compliance, immunology assay design and validation, data analysis and grant writing support.

Abbreviations: HIC

Synonyms: University of Pennsylvania Perelman School of Medicine Human Immunology Core (HIC), Human Immunology Core (HIC)

Resource Type: core facility, service resource, access service resource

Keywords: USEDit, ABRF

Funding:

Resource Name: University of Pennsylvania Perelman School of Medicine Human

Immunology Core Facility

Resource ID: SCR_022380

Alternate IDs: ARBF_1383

Alternate URLs: https://coremarketplace.org?citation=1&FacilityID=1383

Record Creation Time: 20220602T050140+0000

Record Last Update: 20250517T060503+0000

Ratings and Alerts

No rating or validation information has been found for University of Pennsylvania Perelman School of Medicine Human Immunology Core Facility.

No alerts have been found for University of Pennsylvania Perelman School of Medicine Human Immunology Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Padilla MS, et al. (2025) Solution biophysics identifies lipid nanoparticle non-sphericity, polydispersity, and dependence on internal ordering for efficacious mRNA delivery. bioRxiv : the preprint server for biology.

Padilla MS, et al. (2025) Branched endosomal disruptor (BEND) lipids mediate delivery of mRNA and CRISPR-Cas9 ribonucleoprotein complex for hepatic gene editing and T cell engineering. Nature communications, 16(1), 996.

Atochina-Vasserman E, et al. (2024) Targeted delivery of TGF-? mRNA to lung parenchyma using one-component ionizable amphiphilic Janus Dendrimers. Research square.

Whitaker R, et al. (2024) Effects of injury size on local and systemic immune cell dynamics in volumetric muscle loss. bioRxiv : the preprint server for biology.

Mai D, et al. (2024) Stem Loop Mediated Transgene Modulation in Human T Cells. ACS synthetic biology, 13(12), 3897.

Niu Z, et al. (2024) Piscis: a novel loss estimator of the F1 score enables accurate spot detection in fluorescence microscopy images via deep learning. bioRxiv : the preprint server for biology.

Berjis A, et al. (2024) Pretreatment with IL-15 and IL-18 rescues natural killer cells from granzyme B-mediated apoptosis after cryopreservation. Nature communications, 15(1), 3937.

Dimitri AJ, et al. (2024) TET2 regulates early and late transitions in exhausted CD8+ T cell differentiation and limits CAR T cell function. Science advances, 10(46), eadp9371.

Lee CS, et al. (2024) Fate induction in CD8 CAR T cells through asymmetric cell division. Nature, 633(8030), 670.

Jiao W, et al. (2024) Dynamic establishment of recipient resident memory T cell repertoire after human intestinal transplantation. EBioMedicine, 101, 105028.

Patel RP, et al. (2024) CD5 deletion enhances the antitumor activity of adoptive T cell therapies. Science immunology, 9(97), eadn6509.

Yu J, et al. (2024) TIPE proteins control directed migration of human T cells by directing GPCR and lipid second messenger signaling. Journal of leukocyte biology, 115(3), 511.

Denny JE, et al. (2024) Monoclonal antibody-mediated neutralization of Clostridioides difficile toxin does not diminish induction of the protective innate immune response to infection. Anaerobe, 88, 102859.

Goldberg DC, et al. (2024) MSA: scalable DNA methylation screening BeadChip for high-throughput trait association studies. bioRxiv : the preprint server for biology.

Eaton DM, et al. (2024) Vasohibin inhibition improves myocardial relaxation in a rat model of heart failure with preserved ejection fraction. Science translational medicine, 16(756), eadm8842.

Fu J, et al. (2024) Dynamic establishment and maintenance of the human intestinal B cell population and repertoire following transplantation in a pediatric-dominated cohort. Frontiers in immunology, 15, 1375486.

Steele LA, et al. (2024) Effects of a Bioengineered Allogeneic Cellularized Construct (BACC) on Primary Human Macrophage Phenotype. Advanced healthcare materials, e2303044.

Metzloff AE, et al. (2024) Antigen Presenting Cell Mimetic Lipid Nanoparticles for Rapid mRNA CAR T Cell Cancer Immunotherapy. Advanced materials (Deerfield Beach, Fla.), e2313226.

Zhang C, et al. (2023) Sequential Exposure to IL21 and IL15 During Human Natural Killer Cell Expansion Optimizes Yield and Function. Cancer immunology research, 11(11), 1524.

Zhou Y, et al. (2023) Chimeric antigen receptors enable superior control of HIV replication by

rapidly killing infected cells. PLoS pathogens, 19(12), e1011853.