

# Resource Summary Report

Generated by PRECISE-TBI on Aug 1, 2026

## Penn State College of Medicine Genome Sciences Core Facility

RRID:SCR\_021123

Type: Tool

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### Proper Citation

Penn State College of Medicine Genome Sciences Core Facility (RRID:SCR\_021123)

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### Resource Information

**URL:** <https://research.med.psu.edu/core-facilities/genome-sciences/>

**Proper Citation:** Penn State College of Medicine Genome Sciences Core Facility (RRID:SCR\_021123)

**Description:** Provides consultation, instrumentation and services in genomic, epigenomic and transcriptomic studies, analysis of candidate SNPs and mRNAs to whole genome, exome, epigenome and transcriptome sequencing. Services are also available for variety of study designs extending from few laboratory samples to large clinical projects involving hundreds or thousands of samples. Bioinformatics service is available for data analysis. Facility receives either tissue, DNA/RNA or customer generated NGS libraries. Samples are processed based on agreement reached during consultations on design of experiment.

**Synonyms:** Genome Sciences and Bioinformatics Facility, Pennsylvania State University Genome Sciences and Bioinformatics Facility

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

**Keywords:** genomic, epigenomic, transcriptomic, consultation, instrumentation, services, iLab, ABRF, ABRF

**Availability:** open

**Resource Name:** Penn State College of Medicine Genome Sciences Core Facility

**Resource ID:** SCR\_021123

**Alternate IDs:** ABRF\_1162

**Alternate URLs:** <https://coremarketplace.org/?FacilityID=1162>

**Record Creation Time:** 20220129T080353+0000

**Record Last Update:** 20260731T043041+0000

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## Ratings and Alerts

No rating or validation information has been found for Penn State College of Medicine Genome Sciences Core Facility.

No alerts have been found for Penn State College of Medicine Genome Sciences Core Facility.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 47 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Popova EY, et al. (2025) Epigenetic Modifiers to Treat Retinal Degenerative Diseases. Cells, 14(13).

Lawrence SS, et al. (2025) Interferon- $\gamma$ /Janus Kinase 1/STAT1 Signaling Represses Forkhead Box A1 and Drives a Basal Transcriptional State in Muscle-Invasive Bladder Cancer. The American journal of pathology, 195(5), 1013.

Chan K, et al. (2025) Genome Instability Precedes Viral Integration in Human Papillomavirus-Transformed Tonsillar Keratinocytes. Molecular cancer research : MCR, 23(2), 119.

Kim SY, et al. (2025) Involvement of p38 MAPK and MAPKAPK2 in promoting cell death and the inflammatory response to ischemic stress associated with necrotic glioblastoma. Cell death & disease, 16(1), 12.

Morais LH, et al. (2025) The gut microbiome promotes mitochondrial respiration in the brain of a Parkinson's disease mouse model. NPJ Parkinson's disease, 11(1), 301.

Manjila SB, et al. (2025) Brain-wide connectivity and novelty response of the dorsal endopiriform nucleus in mice. Cell reports, 44(7), 115827.

Kumar R, et al. (2025) The HCMV tegument protein UL88 degrades MyD88 and reduces innate immune activation. Journal of virology, 99(8), e0041425.

Strömbäck C, et al. (2025) Positive anticipated affective reactions increase pro-environmental behavior. iScience, 28(5), 112389.

Apsley AT, et al. (2025) Cross-tissue comparison of epigenetic aging clocks in humans. *Aging cell*, 24(4), e14451.

Butic AB, et al. (2025) PD-1 regulates CD4<sup>+</sup> T cell-mediated CD8<sup>+</sup> T cell responses in the brain to balance viral control and neuroinflammation. *bioRxiv : the preprint server for biology*.

Dhamdhare MR, et al. (2025) IGF2BP1 fosters an immunosuppressive tumor microenvironment in high-risk neuroblastoma, contributing to their resistance to immunotherapy. *Oncoimmunology*, 14(1), 2584408.

Montemarano A, et al. (2025) Projection-defined ventral tegmental area neurons exhibit fentanyl-induced molecular and functional adaptations that differentially support drug-context associations. *bioRxiv : the preprint server for biology*.

VanCleave AM, et al. (2025) Rapid proteasomal degradation of the stress response protein REDD2 is mediated by the E3 ligase HUWE1. *Biochemical and biophysical research communications*, 777, 152270.

Hanafiah A, et al. (2024) PRC1 and CTCF-Mediated Transition from Poised to Active Chromatin Loops Drives Bivalent Gene Activation. *bioRxiv : the preprint server for biology*.

Geng Z, et al. (2024) AUTS2 disruption causes neuronal differentiation defects in human cerebral organoids through hyperactivation of the WNT/ $\beta$ -catenin pathway. *Scientific reports*, 14(1), 19522.

Torres MC, et al. (2024) Activity of DNA polymerase  $\beta$  across the genome in human fibroblasts. *Proceedings of the National Academy of Sciences of the United States of America*, 121(28), e2403130121.

Straka J, et al. (2024) CAF-1 promotes efficient PrimPol recruitment to nascent DNA for single-stranded DNA gap formation. *Nucleic acids research*, 52(22), 13865.

Kapur MM, et al. (2024) Heterologous expression of the human wild-type and variant NaV 1.8 (A1073V) in rat sensory neurons. *Neurogastroenterology and motility*, 36(3), e14748.

Popova EY, et al. (2024) Temporal changes in mouse hippocampus transcriptome after pilocarpine-induced seizures. *Frontiers in neuroscience*, 18, 1384805.

Lu T, et al. (2024) LC3-associated phagocytosis of neutrophils triggers tumor ferroptotic cell death in glioblastoma. *The EMBO journal*, 43(13), 2582.