

# Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

## University of Pennsylvania Perelman School of Medicine CUBIC (HPC Cluster)

RRID:SCR\_022406

Type: Tool

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### Proper Citation

University of Pennsylvania Perelman School of Medicine CUBIC (HPC Cluster)  
(RRID:SCR\_022406)

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### Resource Information

**URL:** <https://www.med.upenn.edu/cbica/cubic.html>

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**Description:** Linux based High Performance Computing resource available to faculty conducting research related to medical imaging and informatics. There are over 150 compute nodes with more than 5000 Intel Xeon CPUs and 58TB of RAM, over 100 GPUs, and 600TB of storage in the cluster. Facility management structure is designed to encourage data sharing and use of common software on this powerful resource, particularly in development of new software and application of imaging to new domains.

**Synonyms:** CUBIC (HPC Cluster), University of Pennsylvania Perelman School of Medicine CUBIC (HPC Cluster)

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

**Keywords:** USEDit, ABRF

**Resource Name:** University of Pennsylvania Perelman School of Medicine CUBIC (HPC Cluster)

**Resource ID:** SCR\_022406

**Alternate IDs:** ARBF\_1412

**Alternate URLs:** <https://coremarketplace.org?citation=1&FacilityID=1412>

**Record Creation Time:** 20220602T050140+0000

**Record Last Update:** 20260905T133426+0000

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## Ratings and Alerts

No rating or validation information has been found for University of Pennsylvania Perelman School of Medicine CUBIC (HPC Cluster).

No alerts have been found for University of Pennsylvania Perelman School of Medicine CUBIC (HPC Cluster).

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Ma Y, et al. (2024) pNet: A toolbox for personalized functional networks modeling. bioRxiv : the preprint server for biology.

Patel M, et al. (2024) Interleaved TMS/fMRI shows that threat decreases dlPFC-mediated top-down regulation of emotion processing. NPP - digital psychiatry and neuroscience, 2(1), 6.

Teferi M, et al. (2024) Intermittent theta-burst stimulation to the right dorsolateral prefrontal cortex may increase potentiated startle in healthy individuals. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 49(10), 1619.

Tian GL, et al. (2023) Design and Synthesis of D3R Bitopic Ligands with Flexible Secondary Binding Fragments: Radioligand Binding and Computational Chemistry Studies. Molecules (Basel, Switzerland), 29(1).

Teferi M, et al. (2023) Continuous Theta-Burst Stimulation to the Right Dorsolateral Prefrontal Cortex May Increase Potentiated Startle in Healthy Individuals. Biological psychiatry global open science, 3(3), 470.

Casalvera A, et al. (2023) Threat of shock increases distractor susceptibility during the short-term maintenance of visual information. medRxiv : the preprint server for health sciences.

Kim HY, et al. (2022) Design and Synthesis of Conformationally Flexible Scaffold as Bitopic Ligands for Potent D3-Selective Antagonists. International journal of molecular sciences, 24(1).

Xu K, et al. (2022) Exploration of Diazaspiro Cores as Piperazine Bioisosteres in the Development of  $\alpha_2$  Receptor Ligands. International journal of molecular sciences, 23(15).