

# Resource Summary Report

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## Dartmouth Genomics and Molecular Biology Shared Resource (GMBSR)

RRID:SCR\_021293

Type: Tool

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### Proper Citation

Dartmouth Genomics and Molecular Biology Shared Resource (GMBSR)  
(RRID:SCR\_021293)

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### Resource Information

**URL:** <https://cancer.dartmouth.edu/scientists-researchers/molecular-biology-resource>

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**Description:** Genomics Section provides services and instrumentation that enable DNA/RNA extraction and quality control, next-generation Illumina and Nanopore sequencing, epigenetic profiling, and microarray analysis on a whole-genome scale, from the level organisms to single cells. Molecular Biology Section provides DNA fragment analysis qPCR, Sanger sequencing and NanoString Technology.

**Synonyms:** Molecular Biology Resource, Molecular Biology Shared Resource

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

**Keywords:** USEdit, ABRF, DNA fragment analysis qPCR, Sanger sequencing, NanoString Technology,

**Funding:** NCI 5P30CA023108;  
NIGMS P20GM130454;  
NIH Office of the Director 1S10OD030242;  
NIH Office of the Director S10OD025235

**Resource Name:** Dartmouth Genomics and Molecular Biology Shared Resource (GMBSR)

**Resource ID:** SCR\_021293

**Alternate IDs:** ABRF\_995

**Alternate URLs:** <https://coremarketplace.org/?FacilityID=995>

**Record Creation Time:** 20220129T080354+0000

**Record Last Update:** 20260829T183324+0000

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## Ratings and Alerts

No rating or validation information has been found for Dartmouth Genomics and Molecular Biology Shared Resource (GMBSR).

No alerts have been found for Dartmouth Genomics and Molecular Biology Shared Resource (GMBSR).

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 62 mentions in open access literature.

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

Graber DJ, et al. (2026) 5xFAD-NSG mice: a preclinical Alzheimer model for human cell therapy studies. bioRxiv : the preprint server for biology.

Marshall AC, et al. (2026) Mapping breast cancer lineage in radiation and immunotherapy using the REMAP mouse. bioRxiv : the preprint server for biology.

Nnam CF, et al. (2026) Retroelement Hypomethylation Links Hypoxia Signaling, Immune Phenotypes, and Survival in Clear Cell Renal Cell Carcinoma. bioRxiv : the preprint server for biology.

Kolling Iv FW, et al. (2026) Multisite Assessment of Methods for Cell Preservation Upstream of Single-Cell RNA Sequencing. Journal of biomolecular techniques : JBT, 37(2), 9.

Grau MS, et al. (2026) Myeloid Cell States in Influenza-Associated Pulmonary Aspergillosis Are Shaped by Iron Overload and Metabolic Reprogramming. bioRxiv : the preprint server for biology.

Fathi M, et al. (2026) PALINCODE: Recording cell lineage with ternary palindromic CRISPR bits. bioRxiv : the preprint server for biology.

Armstrong DA, et al. (2026) Optimizing protocols for microRNA profiling of infant and toddler stool. RNA biology, 23(1), 1.

Sarkar S, et al. (2026) Extracellular Particles Derived From Mesenchymal Stromal Cells Reduce Pseudomonas aeruginosa Lung Infection and Inflammation in Mice. Journal of extracellular biology, 5(2), e70114.

Simard AR, et al. (2026) Convergent strategies for nanobody-mediated inhibition of an epoxide hydrolase. *bioRxiv : the preprint server for biology*.

Ghosh S, et al. (2026) Chemokine-defined macrophage niches establish spatial organization of tumor immunity. *Nature immunology*, 27(4), 715.

Li X, et al. (2026) Alveolar macrophage subtypes express cholesterol and inflammation genes in cystic fibrosis. *Life science alliance*, 9(7).

Charpentier LA, et al. (2026) Polymicrobial extracellular vesicles reduce the innate immune response of human cystic fibrosis bronchial epithelial cells. *bioRxiv : the preprint server for biology*.

Vaidya CM, et al. (2026) RAD: A Read-structure Agnostic Demultiplexer for Single-Cell Long-Read Sequencing and Analysis. *bioRxiv : the preprint server for biology*.

Li X, et al. (2026) Molecular and spatial specialization of lung interstitial macrophage subsets: beyond chemokines. *Frontiers in immunology*, 17, 1824159.

Kohsar A, et al. (2026) Comprehensive analysis of spinal cord inflammatory factors in HIV Tat-induced neuropathy in mice. *Neuroscience*, 595, 205.

Lu H, et al. (2026) Epithelial-mesenchymal transition is associated with altered immune composition and cytotoxic function in triple-negative breast cancer. *Breast cancer research : BCR*, 28(1).

Lux BK, et al. (2026) Vicarious trauma primes innate immunity and reconfigures human brain networks. *bioRxiv : the preprint server for biology*.

Vellanki S, et al. (2026) An epigenetic mechanism of azole tolerance facilitates acquired antifungal resistance in *Aspergillus fumigatus*. *mBio*, 17(7), e0066126.

Crossland GE, et al. (2026) Mucosal-associated invariant T cells support IL-15-dependent Treg response in skin injury and promote resolution of skin inflammation. *bioRxiv : the preprint server for biology*.

Johnson Thomas AL, et al. (2026) Pharmacological chromatin remodeling enhances response to estrogen therapy in ER+ breast cancer. *Molecular oncology*.