

Resource Summary Report

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Wisconsin-Madison University Biotechnology Center Gene Expression Center Core Facility

RRID:SCR_017757

Type: Tool

Proper Citation

Wisconsin-Madison University Biotechnology Center Gene Expression Center Core Facility (RRID:SCR_017757)

Resource Information

URL: <https://www.biotech.wisc.edu/services/gec>

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Description: Core provides RNA library preparation services for Illumina, PacBio and Oxford Nanopore sequencing platforms. Single Cell RNA and Spatial Transcriptomics services are available with 10X Genomics technology. Provides RNA extraction, RNA QC and SNP genotyping and methylation bead array services. Provides support from project design through downstream analysis. Service facility, from hypothesis to publication. Microarray: expression and genotyping Affymetrix, Agilent, Nimblegen. Sequencing: RNA, gDNA, ChIP, Capture, 16SNovaSeq, HiSeq 2500, 3000, MiSeq.

Abbreviations: GEC

Synonyms: Gene Expression Center, UWBC Gene Expression Center

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

Keywords: Gene, expression, microarray, sequencing, RNA, gDNA, ChIP, Capture, HiSeq, MiSeq, 16SNovaSeq, service, core

Availability: Open

Resource Name: Wisconsin-Madison University Biotechnology Center Gene Expression Center Core Facility

Resource ID: SCR_017757

Alternate IDs: SCR_019325, ABRF_287

Record Creation Time: 20220129T080336+0000

Record Last Update: 20260801T191223+0000

Ratings and Alerts

No rating or validation information has been found for Wisconsin-Madison University Biotechnology Center Gene Expression Center Core Facility.

No alerts have been found for Wisconsin-Madison University Biotechnology Center Gene Expression Center Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 54 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#).

Edwards KL, et al. (2025) Robust generation of photoreceptor-dominant retinal organoids from porcine induced pluripotent stem cells. Stem cell reports, 20(4), 102425.

Wegrzynowicz AK, et al. (2025) Single-cell analysis of follicular fluid reveals dysregulation of ovulatory immune function in PCOS patients undergoing ovarian stimulation. medRxiv : the preprint server for health sciences.

Saha S, et al. (2025) Diminished immune cell adhesion in hypimmune ICAM-1 knockout human pluripotent stem cells. Nature communications, 16(1), 7415.

Salido E, et al. (2025) The 9p21.3 Coronary Artery Disease Risk Locus Drives Vascular Smooth Muscle Cells to an Osteochondrogenic State. Arteriosclerosis, thrombosis, and vascular biology, 45(5), 702.

Calubag MF, et al. (2025) Lifelong restriction of dietary valine has sex-specific benefits for health and lifespan in mice. bioRxiv : the preprint server for biology.

Berman RF, et al. (2025) GFAP mutation and astrocyte dysfunction lead to a neurodegenerative profile with impaired synaptic plasticity and cognitive deficits in a rat model of Alexander disease. eNeuro, 12(3).

Polaki US, et al. (2025) Loss of GATA2 promotes invasion and predicts cancer recurrence and survival in uterine serous carcinoma. JCI insight, 10(9).

Trautman ME, et al. (2025) Dietary isoleucine content modulates the metabolic and molecular response to a Western diet in mice. Molecular metabolism, 101, 102248.

Yuan NY, et al. (2025) Neural organoids incorporating microglia to assess neuroinflammation and toxicities induced by known developmental neurotoxins. *Current research in toxicology*, 9, 100252.

Wallin J, et al. (2025) Afferent input differentially regulates establishment and maintenance of synapses in the mammalian retina. *Scientific reports*, 15(1), 41045.

Illiano J, et al. (2025) A low-protein diet drives short- and long-term improvements in metabolic health in a mouse model of sleeve gastrectomy. *Cell reports. Medicine*, 6(12), 102471.

Junak M, et al. (2025) Spatial Transcriptome Analysis Reveals Diverse Human Burn Wound Microenvironment. *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*, 33(4), e70061.

Alvin JR, et al. (2025) Toxoplasmosis accelerates the progression of hereditary spastic paraplegia. *mSphere*, 10(4), e0082624.

Bretl M, et al. (2025) RNA-sequencing demonstrates transcriptional differences between human vocal fold fibroblasts and myofibroblasts. *BMC genomics*, 26(1), 347.

Yang H, et al. (2025) Inflammatory macrophages drive smooth muscle dedifferentiation via YAP signaling in murine deep vein thrombosis. *bioRxiv : the preprint server for biology*.

Santis Larrain O, et al. (2025) Vcam1 in endothelial and stromal cells regulates hematopoietic stem cell contact with the niche. *bioRxiv : the preprint server for biology*.

Deng C, et al. (2025) GABA produced by multiple bone marrow cell types regulates hematopoietic stem and progenitor cells. *Stem cell reports*, 20(11), 102677.

Nimkulrat SD, et al. (2025) The RNA-binding protein CPEB1 marks healthy adult ? cells in mice but is dispensable for ? cell identity and function. *Scientific reports*.

Haws SA, et al. (2025) Depletion of individual dietary amino acids induce distinct metabolic and chromatin states. *The Journal of biological chemistry*, 302(2), 111074.

Hou Y, et al. (2024) Single-cell transcriptional landscape of temporal neutrophil response to burn wound in larval zebrafish. *bioRxiv : the preprint server for biology*.