

# Resource Summary Report

Generated by [dkNET](#) on Apr 18, 2025

## Rat Resource and Research Center

RRID:SCR\_002044

Type: Tool

### Proper Citation

Rat Resource and Research Center (RRID:SCR\_002044)

### Resource Information

**URL:** <http://www.rrrc.us/>

**Proper Citation:** Rat Resource and Research Center (RRID:SCR\_002044)

**Description:** Supplies biomedical investigators with rat models, embryonic stem cells, related reagents, and protocols they require for their research. In addition to repository, cryostorage and distribution functions, RRRC can facilitate acquisition of rat strains from other international repositories as well as provide consultation and technical training to investigators using rat models.

**Abbreviations:** NRRRC, RRRC, NCRR RRRC

**Synonyms:** National Rat Resource Research Center, National Center for Research Resources, Rat Resource & Research Center, Rat Resource and Research Center, Rat Resource Research Center, NCRR

**Resource Type:** material resource, organism supplier, biomaterial supply resource, cell repository

**Keywords:** RIN, Resource Information Network, embryo, gamete, animal, drug, biomedical, cryopreserved, disease, genome, genotyping, germplasma, human, hybrid, inbred, infectious, molecular, mutant, nuclear, ovarian, pathogen, rat, research, tissue, rat model, embryonic stem cell, reagent, protocol, cell line, stem cell, strain, database, catalog

**Funding:** NIH Office of the Director P40 OD011062;  
NCRR P40 RR016939

**Availability:** Available to the research community

**Resource Name:** Rat Resource and Research Center

**Resource ID:** SCR\_002044

**Alternate IDs:** nif-0000-12085

**Old URLs:** <http://www.nrrrc.missouri.edu/>

**Record Creation Time:** 20220129T080211+0000

**Record Last Update:** 20250418T054954+0000

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## Ratings and Alerts

No rating or validation information has been found for Rat Resource and Research Center.

No alerts have been found for Rat Resource and Research Center.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 193 mentions in open access literature.

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

Smith JR, et al. (2025) Standardized pipelines support and facilitate integration of diverse datasets at the Rat Genome Database. Database : the journal of biological databases and curation, 2025.

Derman RC, et al. (2024) Role of nucleus accumbens D1-type medium spiny neurons in the expression and extinction of sign-tracking. Behavioural brain research, 459, 114768.

Men H, et al. (2024) Evolution of Media Supporting the Development of Mammalian Preimplantation Embryos In Vitro. Biology, 13(10).

Ishizuka Y, et al. (2024) In vivo fertilization improved the cryotolerance and developmental ability of vitrified-warmed rat fertilized oocytes. Scientific reports, 14(1), 24198.

Rich PD, et al. (2024) Magnetic voluntary head-fixation in transgenic rats enables lifespan imaging of hippocampal neurons. Nature communications, 15(1), 4154.

Millard SJ, et al. (2024) Cognitive representations of intracranial self-stimulation of midbrain dopamine neurons depend on stimulation frequency. *Nature neuroscience*, 27(7), 1253.

Davri AS, et al. (2024) The SGLT2 inhibitor empagliflozin exerts neuroprotective effect against hydrogen peroxide-induced toxicity on primary neurons. *Metabolic brain disease*, 40(1), 15.

Birnbaum EM, et al. (2024) BT-11 repurposing potential for Alzheimer's disease and insights into its mode of actions. *bioRxiv : the preprint server for biology*.

De Filippo C, et al. (2024) Gut microbiota drives colon cancer risk associated with diet: a comparative analysis of meat-based and pesco-vegetarian diets. *Microbiome*, 12(1), 180.

Benevides ES, et al. (2024) Chemogenetic stimulation of phrenic motor output and diaphragm activity. *bioRxiv : the preprint server for biology*.

Ding G, et al. (2024) Velocity of cerebrospinal fluid in the aqueduct measured by phase-contrast MRI in rat. *NMR in biomedicine*, 37(12), e5233.

Mitra S, et al. (2024) A Novel Role for the Histone Demethylase JMJD3 in Mediating Heroin-Induced Relapse-Like Behaviors. *Biological psychiatry*.

Mekala S, et al. (2024) Antagonizing Activin A/p15INK4b Signaling as Therapeutic Strategy for Liver Disease. *Cells*, 13(7).

Ceyzériat K, et al. (2024) Low-Dose Radiation Therapy Impacts Microglial Inflammatory Response without Modulating Amyloid Load in Female TgF344-AD Rats. *Journal of Alzheimer's disease : JAD*, 98(3), 1001.

Looschen K, et al. (2024) Novel psychoplastogen DM506 reduces cue-induced heroin-seeking and inhibits tonic GABA currents in the Prelimbic Cortex. *Neurochemistry international*, 178, 105785.

Cordes CN, et al. (2024) Altered vocal communication in adult vasopressin-deficient Brattleboro rats. *Physiology & behavior*, 287, 114699.

Wallace CH, et al. (2024) Potential Alzheimer's early biomarkers in a transgenic rat model and benefits of diazoxide/dibenzoylmethane co-treatment on spatial memory and AD-pathology. *Scientific reports*, 14(1), 3730.

Reitz NL, et al. (2024) Exercise leads to sex-specific recovery of behavior and pathological AD markers following adolescent ethanol exposure in the TgF344-AD model. *Frontiers in behavioral neuroscience*, 18, 1448691.

Reitz NL, et al. (2024) Adolescent alcohol exposure alters age-related progression of behavioral and neurotrophic dysfunction in the TgF344-AD model in a sex-specific manner. *bioRxiv : the preprint server for biology*.

Teboul L, et al. (2024) Improving laboratory animal genetic reporting: LAG-R guidelines.

