

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

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/>

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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: biomaterial supply resource, cell repository, material resource, organism supplier

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, RRID Community Authority

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

Availability: Free

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: 20260905T132443+0000

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.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 230 mentions in open access literature.

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

Oruro EM, et al. (2026) New directions for complex systems in contemporary neuroscience: a morphodynamic and emergent function approach. *Frontiers in computational neuroscience*, 20, 1800523.

Morita K, et al. (2026) Highly efficient production of transgenic rats with long DNA insertions using piggyBac transposase mRNA and piezo-assisted microinjection. *PLoS one*, 21(2), e0339406.

Tohmi M, et al. (2026) Transcranial Calcium Macro-Imaging From the Auditory Cortex of Thy1-Cre-Driven GCaMP8 Transgenic Rats. *Neuropsychopharmacology reports*, 46(2), e70113.

Cullins MJ, et al. (2026) Oropharyngeal dysphagia and amyloid beta pathology in the TgF344-AD rat model of Alzheimer's disease. *Frontiers in behavioral neuroscience*, 20, 1812480.

Janampalli M, et al. (2026) Choline attenuates bilirubin induced effects on tyrosine phosphorylation and distribution in lipid rafts of L1 cell adhesion molecule in vivo. *Pediatric research*.

Reyna NC, et al. (2026) Effects of Corticotropin-Releasing Factor 1 Receptor Antagonism on In Vivo Dentate Gyrus Long-Term Potentiation in the TgF344-AD Rat Model of Alzheimer's Disease. *Hippocampus*, 36(3), e70103.

Housley SN, et al. (2026) Tumor agnostic drug delivery with dynamic nanohydrogels. *Nature communications*, 17(1), 184.

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.

Dwinell MR, et al. (2025) Establishing the hybrid rat diversity program: a resource for dissecting complex traits. Mammalian genome : official journal of the International Mammalian Genome Society, 36(1), 25.

Olson RM, et al. (2025) Generation and characterization of a humanized ACE2 rat model for the study of SARS-CoV-2 and COVID-19. Frontiers in microbiology, 16, 1680273.

Xie X, et al. (2025) Abstinence and Extinction Drive Opposing Changes in Striatal Activity and Dopamine Signaling During Alcohol Relapse. bioRxiv : the preprint server for biology.

Ye Z, et al. (2025) Effectiveness of aperiodic retinal stimulation in improving temporal visual cortical response. Journal of neural engineering, 22(2).

Marcó S, et al. (2025) Rat models of musculoskeletal lysosomal storage disorders and their role in pre-clinical evaluation of gene therapy approaches. Mammalian genome : official journal of the International Mammalian Genome Society, 36(2), 488.

Hwang EK, et al. (2025) Retinoic acid-mediated homeostatic plasticity drives cell type-specific CP-AMPA accumulation in nucleus accumbens core and incubation of cocaine craving. Molecular psychiatry, 30(7), 3175.

Suyama JA, et al. (2025) Novel Application of T1? Magnetic Resonance Imaging for Noninvasive Assessment of Bladder Hyperpermeability Biomarkers: A Focus on Glycosaminoglycan Content. Neurourology and urodynamics, 44(5), 1081.

Qi T, et al. (2025) Axonal degeneration and retinal neurovascular dysfunction in the TgF344-AD rat model of Alzheimer's disease. Journal of Alzheimer's disease : JAD, 108(2), 914.

Taborda-Bejarano JP, et al. (2025) Characterizing Microglial Morphology: Methodological Advances in Confocal Imaging and Analysis. Cells, 14(17).

Yin C, et al. (2025) Lipidomic fingerprints reveal sex-, age-, and disease-dependent differences in the TgF344-AD transgenic rats. Metabolomics : Official journal of the Metabolomic Society, 22(1), 9.

Birnbaum EM, et al. (2025) BT-11 targets the LANCL2 pathway to attenuate cognitive deficits and hippocampal pathology in Alzheimer's transgenic rats. Scientific reports, 16(1), 1848.

Castro EM, et al. (2025) Sex- and Genotype-Dependent Nicotine-Induced Behaviors in Adult Rats with a Human Polymorphism (rs2304297) in the 3'-UTR of the CHRNA6 Gene. Nicotine & tobacco research : official journal of the Society for Research on Nicotine and Tobacco.