

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 1, 2026

F344/DuCrI

RRID:RGD_734478

Type: Organism

Proper Citation

RRID:RGD_734478

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=734478>

Proper Citation: RRID:RGD_734478

Description: Rattus norvegicus with name F344/DuCrI from RGD.

Species: Rattus norvegicus

Notes: This colony was originated by mating F344 rats which were purchased from local breeder(Fischer) by M.R. Curtis, Columbia University Institute for Cancer Research, 1920. Dunning at Columbia inbred to form the strain starting in 1920. Dunning to CRL in 1960 at F68. Caesarean rederived in 1960. [Charles River Laboratories](#)

Catalog Number: 734478

Background: inbred

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 734478

Organism Name: F344/DuCrI

Record Creation Time: 20230509T191931+0000

Record Last Update: 20260725T194236+0000

Ratings and Alerts

No rating or validation information has been found for F344/DuCrI.

No alerts have been found for F344/DuCrI.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Lee H, et al. (2025) Data-driven feedback augments ultrasound nanotheranostics in brain tumors. bioRxiv : the preprint server for biology.

Huang S, et al. (2025) Mutation in the rat interleukin 34 gene impacts macrophage development, homeostasis, and inflammation. Life science alliance, 8(9).

Oczkowski M, et al. (2025) Anthocyanin-Rich Blackcurrant Pomace Mitigates Oxidative Stress and Affects Steroid Metabolism in the Testes of Rats Exposed to Silver Nanoparticles. Nutrients, 17(24).

Kalisch C, et al. (2025) Biomarker-based approach to human exposure assessment of furan in food. Archives of toxicology, 99(7), 2819.

Sharp BM, et al. (2025) Inbred rat heredity and sex affect oral oxycodone self-administration and augmented intake in long sessions: correlations with anxiety and novelty-seeking. PloS one, 20(3), e0314777.

Sharp BM, et al. (2025) Unmasking Convergent Oxycodone Seeking and Consumption Driving Augmented Intake during Extended Access to Oral Operant Self-Administration. bioRxiv : the preprint server for biology.

Kalisch C, et al. (2024) Validation of putative biomarkers of furan exposure through quantitative analysis of furan metabolites in urine of F344 rats exposed to stable isotope labeled furan. Archives of toxicology, 98(6), 1741.

Olier M, et al. (2024) Calcium-rich dairy matrix protects better than mineral calcium against colonic luminal haem-induced alterations in male rats. NPJ science of food, 8(1), 43.

Thompson JA, et al. (2024) High-fat Western diet alters crystalline silica-induced airway epithelium ion transport but not airway smooth muscle reactivity. BMC research notes, 17(1), 13.

Raber J, et al. (2024) Effects of 5-ion 6-beam sequential irradiation in the presence and absence of hindlimb or control hindlimb unloading on behavioral performances and

plasma metabolic pathways of Fischer 344 rats. *Frontiers in physiology*, 15, 1486767.

Nair VD, et al. (2024) Molecular adaptations in response to exercise training are associated with tissue-specific transcriptomic and epigenomic signatures. *Cell genomics*, 4(6), 100421.

Nair VD, et al. (2024) Protocol for high-throughput DNA methylation profiling in rat tissues using automated reduced representation bisulfite sequencing. *STAR protocols*, 5(2), 103007.

Siamwala JH, et al. (2023) IL-1 β -mediated adaptive reprogramming of endogenous human cardiac fibroblasts to cells with immune features during fibrotic remodeling. *Communications biology*, 6(1), 1200.

De Pascalis R, et al. (2023) In vivo and in vitro immune responses against *Francisella tularensis* vaccines are comparable among Fischer 344 rat substrains. *Frontiers in microbiology*, 14, 1224480.

Matyas C, et al. (2023) PCSK9, A Promising Novel Target for Age-Related Cardiovascular Dysfunction. *JACC. Basic to translational science*, 8(10), 1334.

Guéraud F, et al. (2023) Effects of sodium nitrite reduction, removal or replacement on cured and cooked meat for microbiological growth, food safety, colon ecosystem, and colorectal carcinogenesis in Fischer 344 rats. *NPJ science of food*, 7(1), 53.

Thompson JA, et al. (2022) High-fat Western diet consumption exacerbates silica-induced pulmonary inflammation and fibrosis. *Toxicology reports*, 9, 1045.

Sadovska L, et al. (2021) Exercise-Induced Extracellular Vesicles Delay the Progression of Prostate Cancer. *Frontiers in molecular biosciences*, 8, 784080.

Huff TC, et al. (2021) Vitamin C regulates Schwann cell myelination by promoting DNA demethylation of pro-myelinating genes. *Journal of neurochemistry*, 157(6), 1759.

Jost G, et al. (2019) Impact of brain tumors and radiotherapy on the presence of gadolinium in the brain after repeated administration of gadolinium-based contrast agents: an experimental study in rats. *Neuroradiology*, 61(11), 1273.