

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 28, 2026

F344

RRID:RGD_60994

Type: Organism

Proper Citation

RRID:RGD_60994

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=60994>

Proper Citation: RRID:RGD_60994

Description: Rattus norvegicus with name F344 from RGD.

Species: Rattus norvegicus

Notes: Curtiss and Dunning 1920 at Columbia University Institute for Cancer Research, To Heston 1949 (Billingham and Silvers 1959). To National Institutes of Health in 1951 (Hansen et al 1982). Subsequent sublines from Dunning or NIH. [NIH Autoimmune Rat Model Repository and Development Center](#)

Catalog Number: 60994

Background: inbred

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 60994

Organism Name: F344

Record Creation Time: 20230509T191926+0000

Record Last Update: 20260725T194227+0000

Ratings and Alerts

No rating or validation information has been found for F344.

No alerts have been found for F344.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 533 mentions in open access literature.

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

van Rooij JRA, et al. (2026) Long-term dietary interventions fail to mitigate functional connectivity loss and cognitive decline in the TgF344-AD rat model of Alzheimer's disease. *Experimental neurology*, 398, 115647.

Casanova-Pagola J, et al. (2026) Early-life cognitive intervention preserves brain function in aged TgF344-AD rats with sex-specific effects. *iScience*, 29(1), 114381.

Fogarty MJ, et al. (2025) Dendritic alterations precede age-related dysphagia and nucleus ambiguus motor neuron death. *The Journal of physiology*, 603(5), 1299.

van Rooij JRA, et al. (2025) Short-term caloric restriction or resveratrol supplementation alters large-scale brain network connectivity in male and female rats. *Frontiers in nutrition*, 12, 1440373.

Suzuki M, et al. (2025) Osteotropic properties of mesenchymal stromal cells generated in Masquelet's induced membrane technique. *Scientific reports*, 15(1), 18304.

Zheng M, et al. (2025) Ionizing radiation-mediated dendritic cell maturation exacerbates inflammatory response of bone marrow mesenchymal stem cells and impairs osteogenesis in radiation-induced jaw injury. *Stem cell research & therapy*, 16(1), 388.

Manocchio F, et al. (2025) Photoperiod-Dependent Effects of Phenolic-Enriched Fruit Extracts on Postprandial Triacylglyceride Levels and Acute Inflammatory Responses in F344 Rats. *Molecular nutrition & food research*, 69(15), e70126.

Said AAA, et al. (2025) Granulocyte-macrophage colony-stimulating factor may contribute to spondyloarthritis development in HLA-B27 transgenic rat by affecting conventional dendritic cells function. *Arthritis research & therapy*, 27(1), 124.

Boycott C, et al. (2025) AMPK-Dependent Epigenetic Regulation of Metabolism Mediates the Anti-Cancer Action of Pterostilbene in Hepatocellular Carcinoma. *Molecular nutrition & food research*, 69(23), e70217.

Troha R, et al. (2025) Differences in firing patterns along the dorsal-intermediate hippocampal axis in a fixed route during a change in emotional context. *Frontiers in systems neuroscience*, 19, 1632849.

Aljohani Y, et al. (2025) Pharmacological target sites for restoration of age-associated deficits in NMDA receptor-mediated norepinephrine release in brain. *Journal of neurochemistry*, 169(1), e16280.

Hung YL, et al. (2025) Resistance training suppresses accumulation of senescent fibro-adipogenic progenitors and senescence-associated secretory phenotype in aging rat skeletal muscle. *GeroScience*, 47(2), 1669.

Nguyen HVM, et al. (2025) Age, sex, and mitochondrial-haplotype influence gut microbiome composition and metabolites in a genetically diverse rat model. *Aging*, 17(2), 524.

Jang JY, et al. (2025) Establishment of an Organoid Culture Model Derived from Small Intestinal Epithelium of C57BL/6 Mice and Its Benefits over Tissues. *Journal of cancer prevention*, 30(1), 12.

Yamamoto D, et al. (2025) Effects of timing differences in ??-ray irradiation on ovarian development in rats. *Journal of toxicologic pathology*, 38(4), 237.

Qiao L, et al. (2025) Unraveling the Oncogenic Characteristics of the Cytolinker, Plectin, in Esophageal Squamous Cell Carcinoma. *Cellular and molecular gastroenterology and hepatology*, 19(9), 101549.

Gi M, et al. (2025) Comparative Gene Expression Analysis of Malignant Mesothelioma and Lung Adenocarcinomas Induced by Multi-Walled Carbon Nanotube-7 and Double-Walled Carbon Nanotubes in Rats: Distinct Molecular Signatures and Canonical Pathways. *Nanomaterials (Basel, Switzerland)*, 15(23).

Maegawa H, et al. (2025) Antitumor immunostimulatory effect via cell-killing action of a novel extracorporeal blood circulating photodynamic therapy system using 5-aminolevulinic acid. *Scientific reports*, 15(1), 1064.

Ostlund SB, et al. (2025) Early emergence of motivational and hedonic feeding deficits in the TgF344-AD rat model of Alzheimer's disease. *Frontiers in aging neuroscience*, 17, 1572956.

Zhang J, et al. (2025) Sex dependent correlation of spleen atrophy and behavior deficits induced by binge treatment with ethanol in rodent models. *NeuroImmune pharmacology and therapeutics*, 4(1), 59.