

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 6, 2026

F344/NSim

RRID:RGD_10395235

Type: Organism

Proper Citation

RRID:RGD_10395235

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=10395235>

Proper Citation: RRID:RGD_10395235

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

Species: Rattus norvegicus

Notes: Gnotobiotic pedigreed breeders received from the NIH repository colony in 2005. Most widely used inbred rat strain, particularly for toxicology and teratology. [Simonsen Laboratories](#)

Catalog Number: 10395235

Background: inbred

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 10395235

Organism Name: F344/NSim

Record Creation Time: 20230509T191946+0000

Record Last Update: 20260801T194039+0000

Ratings and Alerts

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

No alerts have been found for F344/NSim.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

Silva-Gomez JA, et al. (2021) Hepatocarcinogenesis Prevention by Pirfenidone Is PPAR? Mediated and Involves Modification of Nuclear NF-kB p65/p50 Ratio. International journal of molecular sciences, 22(21).

Ebersole J, et al. (2021) Altered hippocampal astroglial metabolism is associated with aging and preserved spatial learning and memory. Neurobiology of aging, 102, 188.

García-Chávez JN, et al. (2021) Integration of chronological omics data reveals mitochondrial regulatory mechanisms during the development of hepatocellular carcinoma. PloS one, 16(8), e0256016.

Haimhoffer Á, et al. (2021) Process Optimization for the Continuous Production of a Gastroretentive Dosage Form Based on Melt Foaming. AAPS PharmSciTech, 22(5), 187.

Bernaud VE, et al. (2021) Age Impacts the Burden That Reference Memory Imparts on an Increasing Working Memory Load and Modifies Relationships With Cholinergic Activity. Frontiers in behavioral neuroscience, 15, 610078.

Gardner RS, et al. (2020) Aging is not equal across memory systems. Neurobiology of learning and memory, 172, 107232.

Shoeb M, et al. (2020) A possible relationship between telomere length and markers of neurodegeneration in rat brain after welding fume inhalation exposure. Environmental research, 180, 108900.

Worley NB, et al. (2020) Monoacylglycerol lipase alpha inhibition alters prefrontal cortex excitability and blunts the consequences of traumatic stress in rat. Neuropharmacology, 166, 107964.

Koebele SV, et al. (2020) Characterizing the effects of tonic 17 β -estradiol administration on spatial learning and memory in the follicle-deplete middle-aged female rat. Hormones and behavior, 126, 104854.

Rose M, et al. (2020) Ozone increases plasma kynurenine-tryptophan ratio and impacts hippocampal serotonin receptor and neurotrophic factor expression: Role of stress hormones. Environmental research, 185, 109483.

Rigby MJ, et al. (2020) The endoplasmic reticulum acetyltransferases ATase1/NAT8B and ATase2/NAT8 are differentially regulated to adjust engagement of the secretory pathway. *Journal of neurochemistry*, 154(4), 404.

Kim JH, et al. (2019) Increasing myosin light chain 3f (MLC3f) protects against a decline in contractile velocity. *PloS one*, 14(4), e0214982.

O'Sullivan A, et al. (2019) Dimethylsulfoxide Inhibits Oligodendrocyte Fate Choice of Adult Neural Stem and Progenitor Cells. *Frontiers in neuroscience*, 13, 1242.

Ito F, et al. (2018) Polymer coating on carbon nanotubes into Durobeads is a novel strategy for human environmental safety. *Nagoya journal of medical science*, 80(4), 597.

Sittadjody S, et al. (2017) In vivo transplantation of 3D encapsulated ovarian constructs in rats corrects abnormalities of ovarian failure. *Nature communications*, 8(1), 1858.

Nobrega JN, et al. (2016) Strong interactions between learned helplessness and risky decision-making in a rat gambling model. *Scientific reports*, 6, 37304.

Fujimaki S, et al. (2016) Functional Overload Enhances Satellite Cell Properties in Skeletal Muscle. *Stem cells international*, 2016, 7619418.

Tan SJ, et al. (2015) Muscle tissue engineering and regeneration through epigenetic reprogramming and scaffold manipulation. *Scientific reports*, 5, 16333.

Kandasamy M, et al. (2015) Reduction in subventricular zone-derived olfactory bulb neurogenesis in a rat model of Huntington's disease is accompanied by striatal invasion of neuroblasts. *PloS one*, 10(2), e0116069.

Culley DJ, et al. (2014) Systemic inflammation impairs attention and cognitive flexibility but not associative learning in aged rats: possible implications for delirium. *Frontiers in aging neuroscience*, 6, 107.