

Resource Summary Report

Generated by [dkNET](#) on Sep 19, 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: 20260912T202531+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 [dkNET](#) .

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

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).

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.

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.

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.

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.