

Resource Summary Report

Generated by [kravitz2](#) on Aug 5, 2026

WF/IcoCrl

RRID:RGD_2312511

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=2312511>

Proper Citation: RRID:RGD_2312511

Description: Rattus norvegicus with name WF/IcoCrl from RGD.

Species: Rattus norvegicus

Notes: Furth developed this strain at Roswell Park Memorial Institute, Buffalo, NY, USA in 1945 starting from a commercial colony of Wistar rats. Acquired by Charles River from the Microbiological Associates, Bethesda, Maryland, USA. Introduced to Charles River France in 1970. [Charles River Laboratories](#)

Catalog Number: 2312511

Background: inbred

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 2312511

Organism Name: WF/IcoCrl

Record Creation Time: 20230509T191939+0000

Record Last Update: 20260801T194025+0000

Ratings and Alerts

No rating or validation information has been found for WF/lcoCrl.

No alerts have been found for WF/lcoCrl.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 24 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Martelli A, et al. (2025) Trimethylamine N-Oxide (TMAO) Acts as Inhibitor of Endothelial Nitric Oxide Synthase (eNOS) and Hampers NO Production and Acetylcholine-Mediated Vasorelaxation in Rat Aortas. *Antioxidants* (Basel, Switzerland), 14(5).

Tsotsokou G, et al. (2024) Muscarinic Modulation of Network Excitability and Short-Term Dynamics in the Dorsal and Ventral Hippocampus. *microPublication biology*, 2024.

Kitchener EJA, et al. (2023) Activated microglia release β -galactosidase that promotes inflammatory neurodegeneration. *Frontiers in aging neuroscience*, 15, 1327756.

Garsen M, et al. (2023) Peroxisome proliferator-activated receptor γ agonist mediated inhibition of heparanase expression reduces proteinuria. *EBioMedicine*, 90, 104506.

Reid KM, et al. (2022) Brain Cells Release Calreticulin That Attracts and Activates Microglia, and Inhibits Amyloid Beta Aggregation and Neurotoxicity. *Frontiers in immunology*, 13, 859686.

Orciani C, et al. (2022) Long-term nucleus basalis cholinergic depletion induces attentional deficits and impacts cortical neurons and BDNF levels without affecting the NGF synthesis. *Journal of neurochemistry*, 163(2), 149.

Mao LM, et al. (2021) Roles of adenosine A1 receptors in the regulation of SFK activity in the rat forebrain. *Brain and behavior*, 11(8), e2254.

Puigdemívol M, et al. (2021) The microglial P2Y6 receptor mediates neuronal loss and memory deficits in neurodegeneration. *Cell reports*, 37(13), 110148.

Koos K, et al. (2021) Automatic deep learning-driven label-free image-guided patch clamp system. *Nature communications*, 12(1), 936.

Allendorf DH, et al. (2020) Lipopolysaccharide activates microglia via neuraminidase 1 desialylation of Toll-like Receptor 4. *Journal of neurochemistry*, 155(4), 403.

Malkani S, et al. (2020) Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. *Cell reports*, 33(10), 108448.

Mir FR, et al. (2020) Gonadal hormone-independent sex differences in GABAA receptor activation in rat embryonic hypothalamic neurons. *British journal of pharmacology*, 177(13), 3075.

Martelli A, et al. (2020) Erucin exhibits vasorelaxing effects and antihypertensive activity by H2 S-releasing properties. *British journal of pharmacology*, 177(4), 824.

Mao LM, et al. (2020) Linkage of Non-receptor Tyrosine Kinase Fyn to mGlu5 Receptors in Striatal Neurons in a Depression Model. *Neuroscience*, 433, 11.

Crunfli F, et al. (2019) Cannabinoid Receptor Type 1 Agonist ACEA Improves Cognitive Deficit on STZ-Induced Neurotoxicity Through Apoptosis Pathway and NO Modulation. *Neurotoxicity research*, 35(3), 516.

Mao LM, et al. (2018) Alterations in mGlu5 receptor expression and function in the striatum in a rat depression model. *Journal of neurochemistry*, 145(4), 287.

Crunfli F, et al. (2018) NO-Dependent Akt Inactivation by S-Nitrosylation as a Possible Mechanism of STZ-Induced Neuronal Insulin Resistance. *Journal of Alzheimer's disease : JAD*, 65(4), 1427.

Rempe RG, et al. (2018) Matrix Metalloproteinase-Mediated Blood-Brain Barrier Dysfunction in Epilepsy. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(18), 4301.

Fekete CD, et al. (2017) In vivo transgenic expression of collybistin in neurons of the rat cerebral cortex. *The Journal of comparative neurology*, 525(5), 1291.

Vibhuti , et al. (2017) Intra-arterial transplantation of human bone marrow mesenchymal stem cells (hBMMSCs) improves behavioral deficits and alters gene expression in rodent stroke model. *Journal of neurochemistry*, 143(6), 722.