

Resource Summary Report

Generated by [NIF](#) on Sep 18, 2026

B6.Cg-Lrrk2^{tm1.1Hlme}/J

RRID:IMSR_JAX:030961

Type: Organism

Proper Citation

RRID:IMSR_JAX:030961

Organism Information

URL: <https://www.jax.org/strain/030961>

Proper Citation: RRID:IMSR_JAX:030961

Description: Mus musculus with name B6.Cg-Lrrk2^{tm1.1Hlme}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: leucine-rich repeat kinase 2; mutant strain|congenic strain: Lrrk2

Affected Gene: leucine-rich repeat kinase 2

Genomic Alteration: targeted mutation 1.1; Heather L Melrose

Catalog Number: JAX:030961

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Lrrk2^{tm1.1Hlme}/J

Record Creation Time: 20250513T053819+0000

Record Last Update: 20260912T060555+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Lrrk2^{tm1.1Hlme}/J.

No alerts have been found for B6.Cg-Lrrk2^{tm1.1Hlme}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Thapa M, et al. (2026) Translocation of bacteria from the gut to the brain in mice. *PLoS biology*, 24(3), e3003652.

Tsafaras G, et al. (2025) The G2019S LRRK2 mutation exacerbates α -synuclein and tau neuropathology through divergent pathways in Parkinson's disease models. *Acta neuropathologica*, 150(1), 51.

Jaffery R, et al. (2025) Soluble Immune Factor Profiles in Blood and CSF Associated with LRRK2 Mutations and Parkinson's Disease. *bioRxiv : the preprint server for biology*.

Gaertner Z, et al. (2025) Molecular and spatial transcriptomic classification of midbrain dopamine neurons and their alterations in a LRRK2G2019S model of Parkinson's disease. *eLife*, 13.

Chen C, et al. (2025) Leucine-rich repeat kinase 2 impairs the release sites of Parkinson's disease vulnerable dopamine axons. *bioRxiv : the preprint server for biology*.

Pei J, et al. (2025) Lrrk2 G2019S mutation incites increased cell-intrinsic neutrophil effector functions and intestinal inflammation in a model of infectious colitis. *NPJ Parkinson's disease*, 11(1), 267.

Cabezudo D, et al. (2023) Mutant LRRK2 exacerbates immune response and neurodegeneration in a chronic model of experimental colitis. *Acta neuropathologica*, 146(2), 245.

Thapa M, et al. (2023) Translocation of gut commensal bacteria to the brain. *bioRxiv : the preprint server for biology*.

Yadavalli N, et al. (2023) LRRK2 suppresses lysosome degradative activity in macrophages and microglia through MiT-TFE transcription factor inhibition. *Proceedings of the National Academy of Sciences of the United States of America*, 120(31), e2303789120.

Weindel CG, et al. (2022) Mitochondrial ROS promotes susceptibility to infection via gasdermin D-mediated necroptosis. *Cell*, 185(17), 3214.

Xenias HS, et al. (2022) R1441C and G2019S LRRK2 knockin mice have distinct striatal molecular, physiological, and behavioral alterations. *Communications biology*, 5(1), 1211.