

# Resource Summary Report

Generated by [ASWG](#) on Aug 10, 2026

## B6.Cg-Lrrk2<sup>tm1.1Hlme</sup>/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<sup>tm1.1Hlme</sup>/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<sup>tm1.1Hlme</sup>/J

**Record Creation Time:** 20250513T053819+0000

**Record Last Update:** 20260808T051016+0000

### Ratings and Alerts

No rating or validation information has been found for B6.Cg-Lrrk2<sup>tm1.1Hlme</sup>/J.

No alerts have been found for B6.Cg-Lrrk2<sup>tm1.1Hlme</sup>/J.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 11 mentions in open access literature.

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

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  $\alpha$ -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.