

# Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

## SWR/J

RRID:IMSR\_JAX:000689

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:000689

### Organism Information

**URL:** <https://www.jax.org/strain/000689>

**Proper Citation:** RRID:IMSR\_JAX:000689

**Description:** Mus musculus with name SWR/J from IMSR.

**Species:** Mus musculus

**Synonyms:** SW. SWR/J-Pde6b. swiss

**Notes:** gene symbol note: hemolytic complement|beta-2 microglobulin|aryl-hydrocarbon receptor|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|hemoglobin beta chain complex|disrupted in schizophrenia 1; inbred strain: Hc|B2m|Ahr|Pde6b|Hbb|Disc1

**Affected Gene:** hemolytic complement|beta-2 microglobulin|aryl-hydrocarbon receptor|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|hemoglobin beta chain complex|disrupted in schizophrenia 1

**Genomic Alteration:** deficient|a variant|d variant|retinal degeneration 1|single|deletion

**Catalog Number:** JAX:000689

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** SWR/J

**Record Creation Time:** 20250513T053620+0000

**Record Last Update:** 20260919T054809+0000

### Ratings and Alerts

No rating or validation information has been found for SWR/J.

No alerts have been found for SWR/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 107 mentions in open access literature.

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

Carro V??zquez D, et al. (2025) Differential microRNA expression patterns between TallyHo/JngJ mice and non-diabetic Swiss Webster Random/Jackson mice. JBMR plus, 9(1), ziae121.

Alyami KA, et al. (2025) Potential therapeutic effects of ibudilast and retinoic acid against cuprizone-induced behavioral and biochemical changes in mouse brain. Frontiers in molecular neuroscience, 18, 1567226.

Kaminska D, et al. (2025) Genetic and sex-specific regulation of mitochondrial function in gonadal and inguinal adipose tissue. Molecular metabolism, 100, 102227.

Loshouarn H, et al. (2025) Rhodnius prolixus impairs Trypanosoma cruzi growth through cold-seeking behavioral thermoregulation. PLoS neglected tropical diseases, 19(12), e0013811.

Ren W, et al. (2025) A tandem repeat atlas for the genome of inbred mouse strains: A genetic variation resource. iScience, 28(11), 113703.

Der B, et al. (2024) Cadherin adhesion complexes direct cell aggregation in the epithelial transition of Wnt-induced nephron progenitor cells. Development (Cambridge, England), 151(18).

Baker CL, et al. (2024) L-arginine supplementation abrogates hypoxia-induced virulence of Staphylococcus aureus in a murine diabetic pressure wound model. mSphere, 9(3), e0077423.

Agudelo J, et al. (2024) Cefazolin shifts the kidney microbiota to promote a lithogenic environment. Nature communications, 15(1), 10509.

Loshouarn H, et al. (2024) Effects of fasting on the interplay between temperature and Trypanosoma cruzi infection on the life cycle of the Chagas disease vector Rhodnius prolixus. PLoS neglected tropical diseases, 18(11), e0012665.

Alderbi RM, et al. (2024) Neurotherapeutic impact of vanillic acid and ibudilast on the cuprizone model of multiple sclerosis. *Frontiers in molecular neuroscience*, 17, 1503396.

Vizcarra EA, et al. (2023) An ex vivo model of *Toxoplasma* recrudescence reveals developmental plasticity of the bradyzoite stage. *mBio*, 14(5), e0183623.

Liu D, et al. (2023) A Hypothalamic Circuit Underlying the Dynamic Control of Social Homeostasis. *bioRxiv : the preprint server for biology*.

Miglioranza Scavuzzi B, et al. (2022) The lupus susceptibility allele DRB1\*03:01 encodes a disease-driving epitope. *Communications biology*, 5(1), 751.

Meghnem D, et al. (2022) Peroxisomes Regulate Cellular Free Fatty Acids to Modulate Mast Cell TLR2, TLR4, and IgE-Mediated Activation. *Frontiers in cell and developmental biology*, 10, 856243.

Ramasubramanian B, et al. (2022) Protective Effects of Chaya against Mitochondrial and Synaptic Toxicities in the Type 2 Diabetes Mouse Model TallyHO. *Cells*, 11(4).

Romero DM, et al. (2022) Novel role of the synaptic scaffold protein Dlgap4 in ventricular surface integrity and neuronal migration during cortical development. *Nature communications*, 13(1), 2746.

Kurtz R, et al. (2022) Empagliflozin Treatment Attenuates Hepatic Steatosis by Promoting White Adipose Expansion in Obese TallyHo Mice. *International journal of molecular sciences*, 23(10).

Zhu Q, et al. (2022) N-Acetylcysteine Enhances the Recovery of Ischemic Limb in Type-2 Diabetic Mice. *Antioxidants (Basel, Switzerland)*, 11(6).

Mashay Al-Anazi K, et al. (2022) Maternal and developmental toxicity of Bisphenol-A in SWR/J mice. *Saudi journal of biological sciences*, 29(3), 1543.

Berube BJ, et al. (2022) Characterizing in vivo loss of virulence of an HN878 *Mycobacterium tuberculosis* isolate from a genetic duplication event. *Tuberculosis (Edinburgh, Scotland)*, 137, 102272.