

# Albino C57BL/6

## C57BL/6BrdCrHsd-Tyr<sup>c</sup>

The albino C57BL/6 model was obtained from Allan Bradley at Baylor College of Medicine by the National Cancer Institute (NCI) in 2000. Harlan Laboratories acquired the model from the NCI in 2008. Harlan became Envigo in 2015, then Envigo was acquired by Inotiv in 2021.

### CHARACTERISTICS

**Litter Average:** 6.5

**Coat:** Albino

Contains a mutation in the C(tyrosinase) gene

**Haplotype:** H-2<sup>b</sup>

#### Genetics

The C57BL/6BrdCrHsd-Tyr<sup>c</sup> strain is a spontaneous albino mutant with a mutation in the tyrosinase gene. When homozygous for the mutation the coat color of the mouse will be albino rather than black.

### RESEARCH APPLICATIONS

#### Eye and retinal

- Light damage (1, 2, 3, 4)
- Photoreceptors (5, 6)

#### Hearing

- Endocochlear potential decline (7)

#### Imaging

- Viral infection (8)
- In vivo bioluminescent (9)

#### Infectious disease

- Malaria (10)

#### Neurology

- Neuronogenesis (11)
- Parkinson's disease (12)
- Retinogeniculate targeting (13)

#### Oncology

- Prostate Cancer (14)
- Tumor metastasis (15)

#### Reproduction

- Cryopreservation (16)

#### Stem cell

- Retinal regeneration (17)
- Embryonic Stem cell and Chimeric (18,19)
- Germ Cells (20)





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