RESEARCH MODELS

Rats | Mice | Other rodents

Aged C57BL/6JRj Mouse

- **Strain name:** C57BL/6JRj
- **Type:** Inbred mouse
- **Origin:** CSAL (Orleans) - 1993 (F172)
- **Colour and related genotype:** Black mouse, *a (a/a)* non agouti - MHC: Haplotype $H2^b$
- **Breeding:** Good breeder but quite difficult to rear (sensitive to the environment). Cannibalism with its pups.

Description of our model

This strain was created by C.C. LITTLE, in 1921, from Miss Abbie LATHROP's stock. The Jackson Laboratory's colony was divided in two sub-strains before 1937, resulting in the C57BL/6 and the C57BL/10 strains. The C57BL/6 strain was brought to The Jackson Laboratory in 1948 (C57BL/6J).

C57BL/6JRj show age-related hearing loss and are resistant to audiogenic seizures. This hearing loss is related to the presence of allele $Cdh23^{ahl}$ (Cadherin 23 age-related hearing loss). It's a recessive mutation of the Cdh23 gene (chromosome 10) that results in progressive hearing loss starting at 10 months of age. This strain is sensitive to Diet-Induced Type II diabetes and atherosclerosis.

C57BL/6JRj are active and relatively aggressive but easy to manipulate and have a long life expectancy (2 years). They have a low incidence of tumours which make it a prime model for ageing studies.

JANVIER LABS's **aged C57BL/6JRj** mice are males selected at weaning and kept solely for ageing. They are kept in their original barrier rooms until 24 months of age in a controlled environment and health status.

Important notices:
These animals have never been used as breeders.
C57BL/6JRj carry a deletion in the *Nnt* gene (arose in the C57BL/6J prior to 1984).

Reproductive data*	
Bigamous mating	
Litter size at birth	6.53
Weaning %	80
Productivity index	0.76
Sterility %	4
Gestation time	Between 18 and 20 days

* JANVIER LABS 2011 Data, for an indicative basis

JANVIER LABS
Rodent research models & associated services

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Main application and research fields

- Cardiovascular research: atherosclerosis
- Development biology, ageing
- Immunology and inflammation
- Infections
- Metabolism: obesity, diabetes, hyperglycemia, insulin resistance
- Neurobiology and neuro-sensorial research
- Oncology
- Genetic background for transgenic animals production
- Toxicology, hematology

Our added value

- **The « JANVIER LABS Genetic Policy », a specific programme, guarantees homozygosity of autosomal pairs.**
- **Animals with the SPF or SOPF standards.**
- **A gentling policy for docile and easy-to-handle animals.**
- **Optimal stability conditions of our models during shipments, thanks to our dedicated and internal transport service.**
- **A scientific support with a team of Veterinarians and PhD.**

The available scientific bibliography:

Research has been conducted, all over the world, from models bred in our laboratories.
Discover our updated bibliography of available studies on our Internet **website, heading: Customer Support.**

Our additional offer

Laboratory Services | Transgenic Services