

db mouse (C57BLKS/J Iar $-+Lepr^{db}/+Lepr^{db}$) Model animal for non-insulin-dependent diabetes mellitus



db/db, male,
8-week-old



m+/db, male,
8-week-old



m+/m+, male,
8-week-old

◆ Origin

db mouse, C57BLKS/J Iar $-+Lepr^{db}/+Lepr^{db}$, is introduced to the Institute for Animal Reproduction from Hamamatsu University School of Medicine in 1985.

◆ Coat color

- db/db (homo) and m+/db (hetero): Black
- m+/m+ (misty): Gray

Characteristics

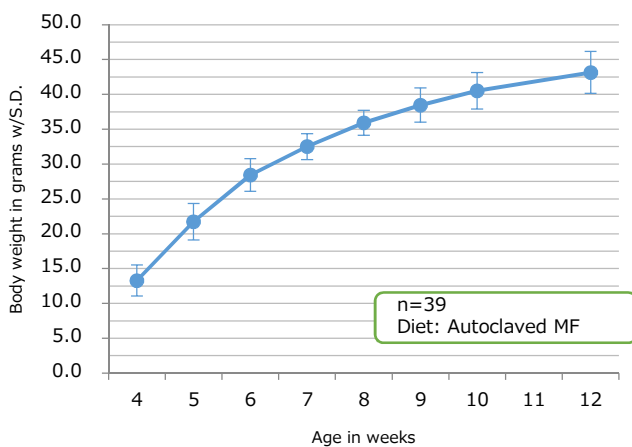
This strain is a NIDDM, non-insulin-dependent diabetes mellitus, model animal that shows similar symptoms of human's obesity diabetes.

This shows overeating and obesity caused by abnormality of the leptin receptor.

Homo mouse indicates increases of weight and blood glucose level after three to four weeks of its birth.

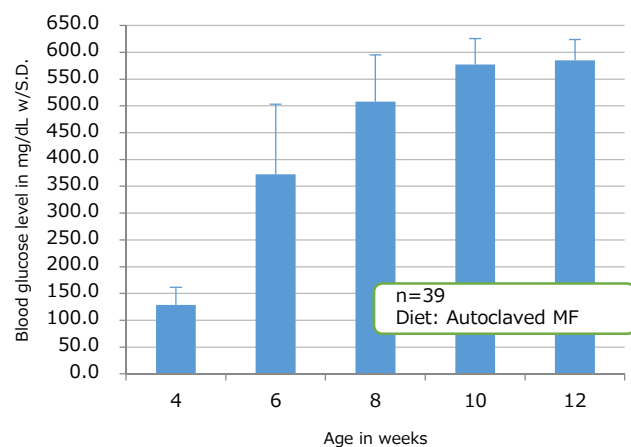
Genetic symbol, $Lepr^{db}$, is added since causal gene is abnormality of the leptin receptor.

Growth chart (db/db, male)



Data has been taken since
June 2014.

Blood glucose level in mg/dL (db/db, male)



- Fast: non
- Observation: between 10 am and 11 am
- Measurement instrument: Blood glucose test meter GT-1641 ARKRAY, Inc.
- Blood collection: facial vein
- Limit value: 600 mg/dL (When the value exceeds 600 mg/dL, it indicates 600 mg/dL)