

Metabolic Disease-Specific Mouse Model: Inbred C57BLKS/J Iar $-+Lepr^{db}/+Lepr^{db}$



db/db (homo)

Right: Female, 8-week-old

Left: Male, 8-week-old

◆ Origin and Field of research

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.

Ideal for researches such as diabetes and its complications, NASH (non-alcoholic steatohepatitis)

List of papers:

http://www.iar.or.jp/diabetes_mouse/db_mouse/pdf/db_paper.pdf

◆ Coat Color

Black (homo and hetero), Gray (misty)

◆ Characteristics

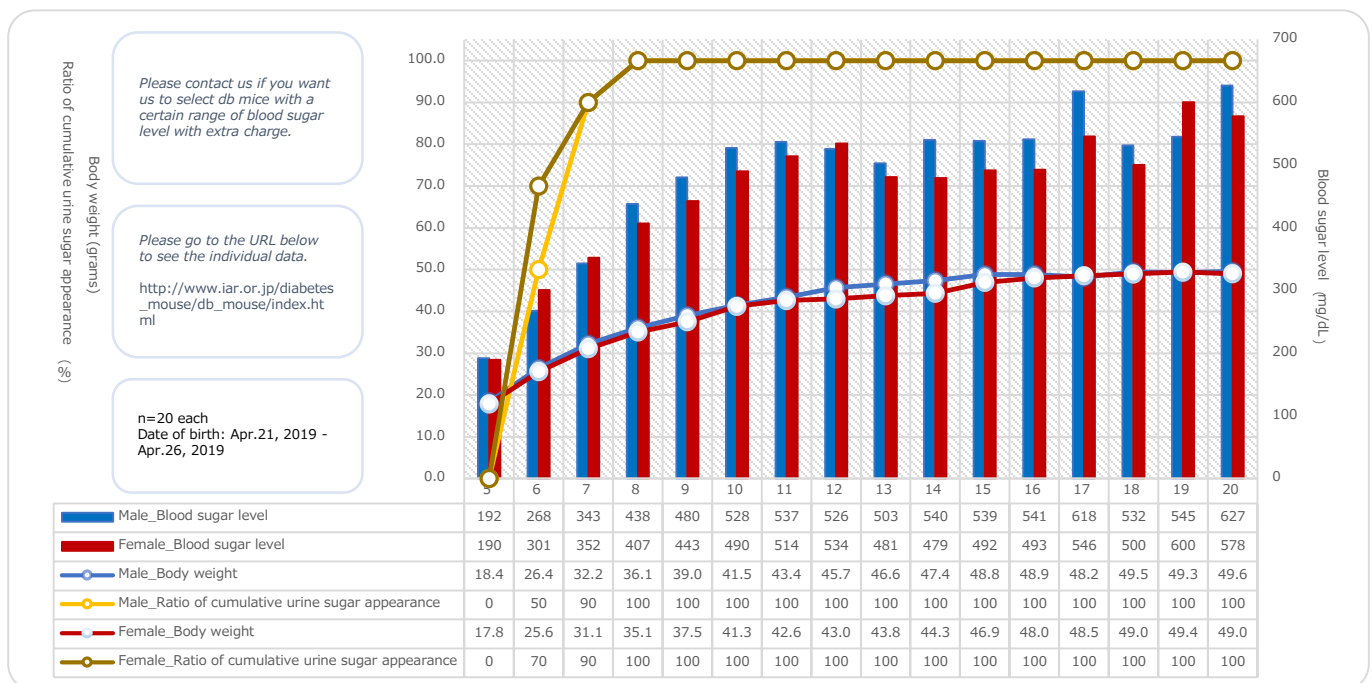
This strain is a NIDDM, non-insulin-dependent diabetes mellitus, model animal that shows similar symptoms of human's obesity diabetes.

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.

The body weight and blood sugar level are almost the same for both sexes.

Growth chart / Blood sugar level / Appearance of Urine Sugar



Diet: MF, Oriental Yeast Co., Ltd. sterilized by autoclave

Blood sugar level: collected from the tail vein

Glucose meter: StatStrip® Xpress 900, Nova Biomedical Corporation (measure limit value: 900 mg/dL)

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<http://www.iar.or.jp/english/index.html>