

Centers of Advanced Medicine

Stable Isotope Medical Application Center

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General Summary

The Spontaneously Diabetic Torii (SDT)-Fatty rat model of diabetes was used to accumulate data until an age of 40 weeks using the fasting ^{13}C -glucose breath test on the onset of liver insulin resistance.

For clinical research, we promoted practical use of liver insulin resistance evaluation with the fasting ^{13}C -glucose breath test for patients with cardiovascular disease.

Publications

Nomoto H, Maehashi H, Shirai M, Nakamura M, Masaki T, Mezaki Y, Park J, Aizawa M, Ohkawa K, Yoshida K, Matsuura T. Bio-artificial bone formation model with a radial-flow bioreactor

for implant therapy-comparison between two cell culture carriers: porous hydroxyapatite and β -tricalcium phosphate beads. *Hum Cell*. 2019; **32**: 1-11.