New study links blood glycerol levels to tuberculosis severity in type 2 diabetes

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Streptozotocin combined with high fat diet mirrors human type 2 diabetes. a Mice were injected with streptozotocin (STZ, 150 mg/kg) 4 weeks after starting a high fat diet (HFD, 60% kcal % fat) and infected with ~100 CFU Mtb Erdman by aerosol 4 weeks after STZ treatment. Comparison was made with mice fed HFD or control diet (CD) without STZ treatment, and mice on control diet treated with STZ. Graphic created with BioRender.com. b Body weight was measured weekly during the experiment (n = 6 mice). c Body weight at the time of infection (n = 6 mice). d Non-fasting blood glucose was quantified biweekly
(n = 15 mice). e Non-fasting blood glucose levels at the time of infection (n = 13 mice for STZ and n = 15 mice for the others). f Insulin levels in plasma 8 weeks p.i. (n = 12 mice for CD, n = 11 mice for STZ and HFD-STZ and n = 10 mice for HFD) g Glucose tolerance test (GTT) (n = 6 mice for CD and HFD and n = 7 mice for STZ and HFD-STZ) and (h) insulin tolerance test (ITT) (n = 13 mice for HFD, n = 12 mice for CD and HFD-STZ and n = 11 mice for STZ) were performed 6 weeks p.i. Area under the curve (AUC) was calculated for the first 30 min for ITT (middle) or for the total for both GTT and ITT (right). Data are expressed as mean ± SD. The experiments were repeated at least twice. Statistical analysis was performed by One-Way ANOVA, *P

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