LIVER AMPK REGULATES TOTAL BODY LIPID ACCUMULATION ON A LCHF DIET BUT IS DISPENSABLE FOR INSULIN RESISTANCE

Katherine E. Kistler, Cody M. Cousineau, JeAnna R. Redd, Claire D. Gleason, Noura El Habbal, Molly ? Mulcahy, Detrick Snyder, Dave Bridges

Abstract

Introduction

Methods

* Generating liver-specific AMPKalpha1/2 knockout mice
  + Black 6 mice that harbored homozygous, floxed alleles for both AMPK a1 and a2 were obtained from \_\_\_\_\_. To produce liver-specific AMPKalpha1/2 knockout mice, at 70 days old these mice were injected through the tail vein with adeno-associated virus (AAV2/8?) expressing either GFP (control) or Cre (treatment) recombinase from a liver-specific TBG promoter (AAV-TBG-GFP or AAV-TBG-CRE).
* Confirming Knockout using Western blotting

Results

* Experimental Design
  + 70 day old mice were injected with either AAV-TBG-GFP or AAV-TBG-CRE to produce liver-specific knockouts and controls. After two weeks, mice were placed on either a ketogenic or matched control diet. At week four, blood samples were taken. At week five and insulin tolerance tests was performed. At week seven mice were sacrificed and tissues were collected.

Discussion

Author Contributions

Acknowledgements

References

Figure/Table Legends