

## Abbreviations

- ABR: Auditory evoked brain stem recording  
ACC: Acetyl-CoA carboxylase  
AMPK: AMP-activated protein kinase  
CD: Control diet  
DAG: Diacylglycerol  
DPOAE: distortion products otoacoustic emissions  
EFC: endolymphatic fluid compartment  
EH: Endolymphatic hydrops  
Enac: Amilorid-sensitive sodium channel  
FAS: Fatty acid synthase  
GAPDH: Glyceraldehyd-3-phosphate dehydrogenase  
GLUT 4: Glucose transporter type 4  
HEI-OC1: House Ear Institute-Organ of Corti 1  
HFD: High fat diet  
HSL: Hormone-sensitive lipase  
HSP: Heat shock protein 90  
IRS-1: Insulin receptor substrate 1  
MRI: Magnetic resonance imaging  
PDE: Phosphodiesterase  
PI3-kinase: Phosphoinositide 3-kinase  
PKB: Protein kinase B  
SM: Scala media  
ST: Scala tympani  
SV: Scala vestibule  
TIRF: Total internal reflection fluorescens