

## **Abbreviations**

ACC	Acetyl-CoA carboxylase
Agpat1/2	1-acylglycerol-3-phosphate O-acyltransferase1/2
ALAN	Artificial Light At Night
ALP	Alkaline phosphatase
ALT	Alanine transaminase
AMPK	AMP-activated protein kinase
ANIT	a-naphthylisothiocyanate
ANOVA	Analysis of variance
ANS	Autonomic nervous system
AST	Aspartate transaminase
BDNF	Brain-derived neurotrophic factor
Bmal1	Brain and Muscle ARNT-Like 1
BMI	Body mass index
CD36	cluster of differentiation 36
CDCA	Chenodeoxycholic acid)
CDE	Continuous dark exposure
CHOL	Cholesterol
CLE	Continuous dark exposure
Clock	Circadian Locomotor Output Cycles Kaput.
CNS	Central nervous system

CNTF	Ciliary neurotrophic factor
CORT	Corticosterone
CPT1	Carnitine palmitoyltransferase I
CREB	cAMP Response Element-Binding Protein
CRH	Corticotrophin-releasing hormone
Cry	Cryptochromes
CUMS	Chronic unpredictable mild stress
DAMPs	Damage-associated molecular patterns
Dgat2	Diacylglycerol O-acyltransferase 2
DLAN	Dim Light At Night
DNL	De novo lipogenesis
DSM-IV	Diagnostic and Statistical Manual of Mental Disorders
DSS	Dextran sulphate sodium
ENS	Enteric nervous system
EPM	Elevated plus maze test
FABP	Fatty acid binding proteins
FAS	Fatty acid synthase
FATP	Fatty-Acid Transport Protein
FST	Force swim test
FXR	Farnesoid X receptor
GAD	Generalized anxiety disorders
GDNF	Glial Cell-Line Derived Neurotrophic Factor

GFAP	glial fibrillary acidic protein
Gpat2	Glycerol-3-Phosphate Acyltransferase 2
GPCR	G-protein coupled receptor
HBsAg	Hepatitis B surface antigen
HBT	Hole board test
HCC	Hepatocellular carcinoma
HDL	High-density lipoprotein
HPA	Hypothalamopituitary-adrenal
IL1 $\beta$	Interleukin-1 $\beta$
LDL	Low-density lipoprotein
LPS	Lipopolysaccharide
LXR $\alpha$	Liver X receptor alpha
MAPK	Mitogen-activated protein kinase
MBP	Myelin-basic protein
MBT	Marble burying test
MCD	Methionine/Choline Deficient
MCP-1	Monocyte attraction protein-1
MDA	Malondialdehyde
MDD	Major depressive disorder
MMI	Methimazole
MWM	Morris water maze
NAFLD	Nonalcoholic fatty liver disease

NASH	Nonalcoholic steatohepatitis
NFKB	Nuclear Factor Kappa light chain enhancer of activated B cells
NGF	Nerve growth factor
NR1D1 or Rev-erba	nuclear receptor subfamily 1 group D member 1 (NR1D1)
NSE	Neuron-specific enolase
NT-3	Neurotrophin-3
NT-4/5	Neurotrophin-4/5
OCA	Obeticholic acid
ORO	Oil Red O
OSA	Obstructive sleep apnea
OST- $\alpha/\beta$	Organic solute transporter $\alpha/\beta$
OTUs	Operational Taxon Units
PAMPs	Pathogen-associated molecular patterns
PCO	protein carbonyl
PCOS	Polycystic Ovarian Syndrome
PDEs	Phosphodiesterases
Per	Period
Pgc1	Peroxisome proliferator activated receptor gamma coactivator 1
PMRS	Plasma membrane redox system
pNF $\kappa$ B	Phosphor-nuclear factor kappa B
PPARa	Peroxisome proliferator-activated receptors
PXR	Pregnane X receptor

RORE	Retinoic acid-related Orphan receptor response element
Rora	RAR-related orphan receptor alpha
ROS	Reactive oxygen species
SA	sialic acid
SCFAs	Short chain fatty acids
SCN	Suprachiasmatic nucleus
SGOT	Serum glutamic-oxaloacetic transaminase
SGPT	Serum glutamic pyruvic transaminase
Sirt	Sirtuins
SOD2	Superoxide dismutase 2
SPT	Sucrose preference test
SREBP1c	Sterol regulatory element-binding proteins
TG	Triglycerides
TNF $\alpha$	Tumor necrosis factor alpha
TrkB	Tyrosine receptor kinase B or Tropomyosin receptor kinase B
TST	Tail suspension test
VLDL	Very low-density lipoprotein
ZT	Zeitgebers Time