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Table of Abbreviations

CVD: Cardiovascular disease

CHD: Congenital heart disease

AV: Atrio-ventricular

SA: Sino-atrial

AVC: Atrioventricular canal

LV: Left ventricle

RV: Right ventricle

OFT: Outflow tract

E: Embryonic day

MI: Myocardial infarction

AMI: Acute myocardial infarction

IHD: Ischemic heart disease

IWMI: inferior wall MI

AWMI: Anterior wall MI

T2D: Type 2 diabetes

ECM: Extracellular matrix

MMP: Matrix metalloproteinase

TIMP: Tissue inhibitor of matrix metalloproteinase

I/R: Ischemia- Reperfusion

DCM : Dilated cardiomyopathy

DCM & D: DCM with T2D.

EMT: epithelial to mesenchymal transformation

Con: Control

Strv: Starvation

Rap: Rapamycin

CS: Carnegie stage

MESP: Mesoderm Posterior Protein 1

BMP: Bone morphogenetic protein

ANF: Atrial natriuretic factor

Cx40: Connexin40

Yap: Yes associated protein

MST1: mammalian STE20-like protein kinase 1

LATS1: Large tumor suppressor kinase 1

SAV1: Salvador homologue1

SHF: Secondary heart field

RA: Retinoic acid

SRF: Serum Response Factor

Mef2c: Myocyte enhancer factor 2c

MLC2v: Myosin light chain 2v

bHLH: Basic helix loop helix

ROS: Reactive oxygen species

Hyp: Hypoxia

LOF: Loss of function

Col: Collagen

HA: Hyaluronic acid

LOF: Loss of function

LAMP-2A: Lysosomal associated membrane protein 2A

DMEM: Dulbecco's modified eagle medium

FBS: Fetal bovine serum

PBS: Phosphate buffered saline

EDTA: Ethylenediaminetetraacetic acid

TAE: Tris-acetate-EDTA

GSK-3 β : Glycogen synthase kinase-3 β

mTOR: Mammalian target of Rapamycin

TGF- β : Transforming growth factor β

α -SMA: α Smooth muscle actin

Col-III: Collagen III

Sirt1: Sirtuin1

Glut1: Glucose transporter

WGA: Wheat germ agglutinin

SRF: Serum response factor

PBMC: Peripheral blood mononuclear cells

RT-PCR: Reverse transcriptase PCR

qPCR: Quantitative Real time PCR

WB: Western blotting

IF: immunofluorescence

IHC: Immunohistochemistry

CV450: Cytocalcein violet 450

AG: Apoxin green

7-AAD: 7-amino actinomycin D

Tbx20si: Tbx20 siRNA

ATSsi: Adamts4 siRNA

ALKI: ALK inhibitor

ELISA: Enzyme linked immunosorbent assay

PAGE: Polyacrylamide gel electrophoresis

SDS: Sodium dodecyl sulphate

PI-3K: Phosphoinositide-3- kinase

AKT: Protein kinase B

DAPI: 4',6-diamidino-2-phenylindole

TBS: Tris-buffered saline

TBST: Tris-buffered saline with Tween 20

RT: Room temperature

Scr: scrambled siRNA

HHD: Hypertensive heart disease

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