



بسم الله الرحمن الرحيم

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بقسم التوثيق الإلكتروني بمركز الشبكات وتكنولوجيا المعلومات دون أدنى

مسئولية عن محتوى هذه الرسالة.

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Effect of Anti-glucagon Treatment on Cardiac Performance in Experimentally Induced Type II Diabetic Rats

Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ

لَسْبَحَانَكَ لَا عِلْمَ لَنَا
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ
الْعَلِيمُ الْعَظِيمُ

صدق الله العظيم

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LIST OF ABBREVIATIONS

Abb.	Description
ACTH	Adrenocorticotrophic hormone
AMPK	Adenosine monophosphate kinase
AT	Atria
ATP	Adenosine triphosphate
BMI	Body mass index
BNP	Brain natriuretic peptide
cAMP	Cyclic adenosine monophosphate
CCK	Cholecystokinin
CGRP	Calcitonin gene-related peptide
DM	Diabetes mellitus
DPP-4	Dipeptidyl peptidase 4
ECG	Electrocardiogram
EDTA	Ethylenediaminetetraacetic acid
ELISA	Enzyme linked immunosorbent assay
FBG	Fasting blood glucose level
FBMI	Final body mass index
FBW	Final body weight
FWC	Final waist circumference
GLP-1	Glucagon-like peptide-1
GLP-2	Glucagon-like peptide-2
GLUT	Glucose transporter
H&E	Hematoxylin and eosin
HbA1c	Glycated hemoglobin
HDL	High density lipoprotein
HFD	High fat diet
HLA	Human leukocyte antigen
HOMA-IR	Homeostasis model assessment of insulin resistance
HR	Heart rate
HRT	Half relaxation time
i.p.	Intraperitoneal
IBMI	Initial body mass index
IBW	Initial body weight
IL-6	Interleukin 6
ISO	Isoproterenol
IWC	Initial waist circumference

List of Abbreviations

Abb.	Description
KHB	Krebs-Henseleit bicarbonate buffer
LDL	Low density lipoprotein
LDL-C	Low density lipoprotein-cholesterol
LSD	Least significant difference
LV	Left ventricle
MFR	Myocardial flow rate
MFR/LV	Myocardial flow rate per 100 mg left ventricular weight
mRNA	Messenger ribonucleic acid
NaCl	Sodium chloride
OGTT	Oral glucose tolerance test
PT	Peak developed tension
PT/LV	Peak developed tension per 100 mg left ventricular weight
Q-Tc	Corrected Q-T
Q-To	Observed Q-T Interval
RAS	Renin angiotensin system
ROS	Reactive oxygen species
RV	Right ventricle
SAN	Sinoatrial node
SPSS	Statistical program for social science
STZ	Streptozotocin
T1D	Type 1 diabetes mellitus
T2D	Type 2 diabetes mellitus
TGPT	Tension generation per unit time
TNF-α	Tumor necrosis factor-alpha
TPT	Time to peak tension
VEGFs	Vascular endothelial growth factors
VLDL	Very low-density lipoprotein
VMAT	vesicular monoamine transporter
WH	Whole heart

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