



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



MONA MAGHRABY



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



MONA MAGHRABY

Effect of Metformin on Circulating Neuregulin-4 in Children with Type 1 Diabetes

Thesis

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By

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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زِدْنِي عِلْمًا

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List of Abbreviations

Abb.	Full term
<i>2-h PG</i>	<i>2-hour plasma glucose</i>
<i>3beta HSD</i>	<i>3beta hydroxy steroid dehydrogenase</i>
<i>Ach R</i>	<i>Acetyl choline receptors</i>
<i>AGE</i>	<i>Advanced glycation end products</i>
<i>AIP3</i>	<i>Actin Interacting Protein 3</i>
<i>AMPK</i>	<i>AMP activated protein kinase</i>
<i>AMPK-eNOS</i>	<i>AMP activated protein kinase-endothelial nitric oxide synthase</i>
<i>APC</i>	<i>Anaphase Promoting Complex</i>
<i>BACH2</i>	<i>BTB domain And CNC Homologe 2</i>
<i>BAT</i>	<i>Brown Adipose Tissue</i>
<i>BG</i>	<i>Blood glucose</i>
<i>BMI</i>	<i>Body Mass Index</i>
<i>CAD</i>	<i>Coronary artery disease</i>
<i>CD36</i>	<i>Cluster of differentiation 36</i>
<i>CGM</i>	<i>Continuous glucose monitoring</i>
<i>CHOP</i>	<i>C/EBP homologous protein</i>
<i>CTLA4</i>	<i>Cytotoxic T Lymphocyte Associated protein 4</i>
<i>CVD</i>	<i>Cardio Vascular Disease</i>
<i>CYP11A1</i>	<i>cytochrome p450 family 11 subfamily A member 1</i>
<i>DC</i>	<i>Dendritic Cell</i>
<i>DCCT</i>	<i>Diabetic control and complication trial</i>
<i>Di o2</i>	<i>Type 2 iodothyronine deiodinase</i>
<i>DKA</i>	<i>Diabetic Keto Acidosis</i>
<i>DPP</i>	<i>Diabetes prevention program</i>
<i>DPP-4</i>	<i>Dipeptidyl peptidase 4</i>
<i>Drp1</i>	<i>Dynamin – related protein 1</i>
<i>E.Coli</i>	<i>Escherichia coli</i>

List of Abbreviations (Cont...)

Abb.	Full term
<i>ECM</i>	<i>Extracellular matrix</i>
<i>EGF</i>	<i>Epidermal Growth Factor</i>
<i>ER</i>	<i>Endoplasmic reticulum stress</i>
<i>Erb B</i>	<i>Epidermal growth factor receptor</i>
<i>FBG</i>	<i>Fasting blood glucose</i>
<i>FSH</i>	<i>Follicle stimulating hormone</i>
<i>GLP- 1</i>	<i>Glucagon – like peptide – 1</i>
<i>GLP-1</i>	<i>Glucagon like peptide-1</i>
<i>HbA1c</i>	<i>Hemoglobin A1c</i>
<i>HCC</i>	<i>Hepatocellular carcinoma</i>
<i>HFD</i>	<i>High – fat diet</i>
<i>HHS</i>	<i>Hyperglycemic hyperosmolar state</i>
<i>HLA</i>	<i>Human Leukocyte Antigen</i>
<i>HOMA</i>	<i>Homeostatic model assessment</i>
<i>hs-CRP</i>	<i>High sensitivity C-reactive protein</i>
<i>IDF</i>	<i>International Diabetes Federation</i>
<i>IFIH1</i>	<i>Interferon Induced Helicase c domain 1</i>
<i>IGT</i>	<i>Impaired Glucose Tolerance</i>
<i>IL</i>	<i>Interleukin</i>
<i>IL2RA</i>	<i>Interleukin 2 Receptor Subunit Alpha</i>
<i>INS</i>	<i>Insulin</i>
<i>IR</i>	<i>Insulin resistance</i>
<i>IRI</i>	<i>Ischemia reperfusion injury</i>
<i>ISPAD</i>	<i>International Society of Pediatrics and Adult Diabetes</i>
<i>JNK</i>	<i>C-Jun N-terminal Kinase</i>
<i>LDL</i>	<i>Low density lipoprotein</i>
<i>LDL</i>	<i>Low density lipoprotein</i>
<i>MAVS</i>	<i>Mitochondrial Antiviral Signaling</i>

List of Abbreviations (Cont...)

Abb.	Full term
<i>MCP1</i>	<i>Monocyte Chemotactic Protein 1</i>
<i>Met S</i>	<i>Metabolic syndrome</i>
<i>MI</i>	<i>Myocardial infarction</i>
<i>mPTP</i>	<i>Mitochondrial permeability transition pore</i>
<i>NADPH</i>	<i>Nicotinamide adenine dinucleotide phosphate</i>
<i>NAFLD</i>	<i>Non Alcoholic Fatty Liver Disease</i>
<i>NASH</i>	<i>Non alcoholic steatohepatitis</i>
<i>NF-κB</i>	<i>Nuclear Factor Kappa- Light chain enhancer of activated B cells</i>
<i>NGSP</i>	<i>National glucohemoglobin standardization program</i>
<i>NICE</i>	<i>National institute for health and care excellence</i>
<i>NK</i>	<i>Natural Killer cell</i>
<i>NMJ</i>	<i>Neuromuscular junction</i>
<i>NPH</i>	<i>Neutral protamine hagedron insulin</i>
<i>Nrg 1</i>	<i>Neuregulin 1</i>
<i>Nrg 2</i>	<i>Neuregulin 2</i>
<i>Nrg 3</i>	<i>Neuregulin 3</i>
<i>Nrg 4</i>	<i>Neuregulin 4</i>
<i>Nrg 5</i>	<i>Neuregulin 5</i>
<i>Nrg 6</i>	<i>Neuregulin 6</i>
<i>NRGS</i>	<i>Neuregulins</i>
<i>OGTT</i>	<i>Oral glucose tolerance test</i>
<i>PCOS</i>	<i>Polycystic ovary syndrome</i>
<i>PDK 1</i>	<i>Phospho inositide dependent kinase 1</i>
<i>PGC-1 α</i>	<i>Peroxisome proliferator-activated receptor- gamma coactivator α</i>
<i>PI3K</i>	<i>Phospho inositide 3 kinase</i>

List of Abbreviations *(Cont...)*

Abb.	Full term
<i>PKCzeta pathway ...</i>	<i>Protein kinase c zeta pathway</i>
<i>PTPN2</i>	<i>Protein Tyrosine Phosphate Nonreceptor type 2</i>
<i>PTPN22</i>	<i>Protein Tyrosine Phosphate Nonreceptor type 22</i>
<i>PVD</i>	<i>Peripheral vascular disease</i>
<i>ROS</i>	<i>Reactive oxygen species</i>
<i>SP Tcell</i>	<i>Single Positive T cell</i>
<i>STEMI</i>	<i>ST-segment elevation myocardial infarction</i>
<i>T SCs</i>	<i>Terminal schwann cells</i>
<i>T1DM.....</i>	<i>Type 1 Diabetes Mellitus</i>
<i>T2DM.....</i>	<i>Type 2 Diabetes Mellitus</i>
<i>Tc</i>	<i>Cytotoxic T cell</i>
<i>TCR</i>	<i>T Cell Receptor</i>
<i>Teff</i>	<i>Effector T Cell</i>
<i>TG</i>	<i>Triglyceride</i>
<i>Th</i>	<i>Helper T cell</i>
<i>TODAY.....</i>	<i>Type 2 diabetes in adolescent and youth</i>
<i>Treg</i>	<i>Regulatory T Cell</i>
<i>UCP 1</i>	<i>Uncoupling protein 1</i>
<i>UKpds</i>	<i>UK Prospective Diabetes Study</i>
<i>VEGF</i>	<i>Vascular endothelial growth factor</i>
<i>WAT</i>	<i>White adipose tissue</i>
<i>WBC</i>	<i>White blood cell</i>