

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



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شبكة المعلومات الجامعية التوثيق الالكتروني 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 تغييرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



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بعض الوثائق

الأصلية تالفة



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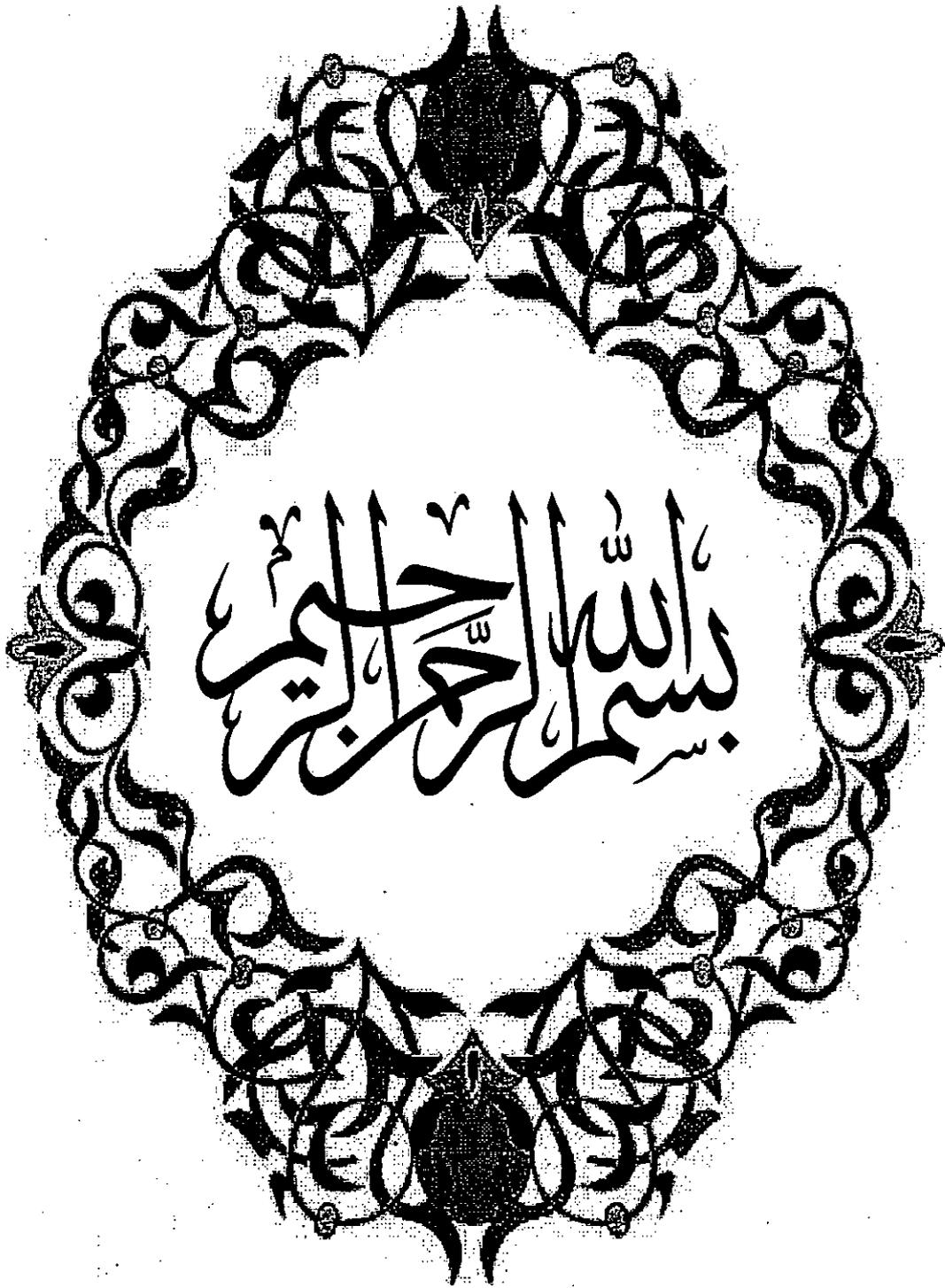


بالرسالة صفحات

لم ترد بالأصل



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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال رب اشرح لي صدري ويسر لي أمري
واحلل عقدة من لساني يفقهوا قولي

صدق الله العظيم

طه ٢٥-٢٨

EFFECT OF SODIUM ORTHOVANADATE AND CHROMIUM CHLORIDE ON GLUCOSE-6-PHOSPHATE DEHYDROGENASE AND ALPHA-AMYLASE IN ALLOXAN-INDUCED DIABETIC RATS

BIKVTY

Thesis

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Dedicated To

My Husband

My Son and My Daughter

My Mother

The Soul of My Father



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LIST OF ABBREVIATIONS

ADA	: American diabetes association
ATP	: Adenosine triphosphate
Ala	: Alanine
Ca²⁺	: Calcium
Cr	: Chromium
CrO₃	: Chromium trioxide
CrF₂	: Chromium difluoride
C.T.	: Connective tissue
Cu⁺⁺	: Copper
DM	: Diabetes mellitus
DNA	: Deoxyribonucleic acid
EDTA	: Ethylene diamine tetra acetic acid
EM	: Electron microscope
ESADDI	: Estimated safe and adequate daily dietary intake
ET-G₇PNP	: 4,6 ethylidene (G ₇)-P-nitrophenyl (G ₁)-α ₁ D-maltoheptaside
FPG	: Fasting plasma glucose
GDM	: Gestational diabetes mellitus
GI	: Gastrointestinal
G-6-PDH	: Glucose-6-phosphate dehydrogenase
GSH	: Glutathione, reduced form
GSSG	: Glutathione, oxidized form
GTF	: Glucose tolerance factor
Gly	: Glycine
H&E	: Hematoxyline and eosine
HDL	: High-density lipoprotein
HLA	: Histocompatibility antigens
HMP	: Hexose monophosphate shunt pathway

IDDM	: Insulin-dependent diabetes mellitus
IFG	: Impaired fasting glucose
IGT	: Impaired glucose tolerance
KCl	: Potassium chloride
kDa	: Kilo Dalton
MgCl₂	: Magnesium chloride
HCl	: Hydrochloric acid
Ile	: Isoleucine
iv	: Intravenous
MODY	: Maturity-onset-type diabetes of the young
MRDM	: Malnutrition related diabetes mellitus
mRNA	: Messenger ribonucleic acid
MW	: Molecular weight
NADP⁺	: Nicotinamide adenine dinucleotide phosphate. oxidized form
NADPH	: Nicotinamide adenine dinucleotide phosphate, reduced form
NIDDM	: Non-insulin-dependent diabetes mellitus
NPY	: Hypothalamic neuropeptide Y
OGTT	: Oral glucose tolerance test
Pot AGT	: Potential abnormality of glucose tolerance
Prev AGT	: Previous abnormality of glucose tolerance
STZ	: Streptozotocin
Ser	: Serine
Thr	: Threonine
Tris	: Tris-(hydroxymethyl) amino methane
UV	: Ultraviolet
Val	: Valine
V	: Vanadium
Zn²⁺	: Zinc