

سامية محمد مصطفى



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



سامية محمد مصطفى



شبكة المعلومات الجامعية



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



سامية محمد مصطفى



شبكة المعلومات الجامعية

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



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



الله

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الحمد لله الذى هدانا لهذا
وما كنا لنهتدى لولا أن هدانا الله

صدق الله العظيم

B

١٥٧٦١

**DETECTION OF SECRETORY AND SERUM
SPECIFIC ANTIBODIES TO POLIOVIRUSES
IN SELECTED AREAS IN ALEXANDRIA**

Thesis

*Submitted to the High Institute of Public Health
in fulfilment of the Degree of*
**MASTER OF PUBLIC HEALTH
(MICROBIOLOGY)**

By

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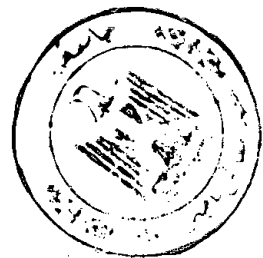
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Dedicated to
My mother
My husband
& my sister






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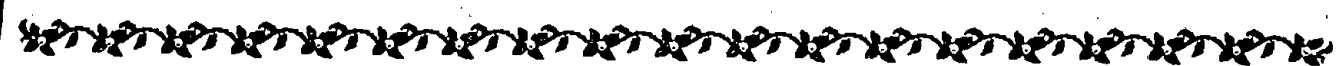
First of all , I thank GOD for helping me to accomplish this work .

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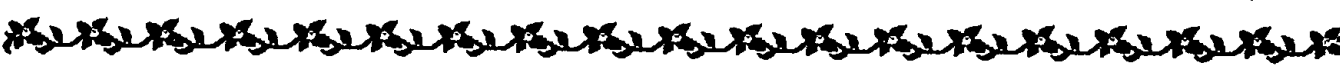
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LIST OF ABBREVIATIONS

CNS	=	central nervous system .
ELISA	=	enzyme-linked immunosorbent assay .
WHO	=	World Health Organization .
IPV	=	inactivated poliovirus vaccine .
eIPV	=	enhanced inactivated poliovirus vaccine .
OPV	=	oral poliovirus vaccine .
DPT	=	Diphtheria - Pertussis - Tetanus .
EPI	=	Expanded programme on Immunization .
PAHO	=	Pan American Health Organization .
PBS	=	phosphate buffered saline .
T₂₀	=	Tween 20 .
BGM	=	buffalo green monkey .
PD	=	proportionate distance .
PV	=	poliovirus .
SV₄₀	=	Simian virus 40 .
TCID₅₀	=	tissue culture infective dose ₅₀ .
r	=	correlation coefficient .
NI	=	neutralization index .
NS	=	non significant .
USA	=	United States of America .

IL-I = interleukin I .

TNF = tumour nectrotizing factor .

CDC = Centers for Disease Control .