



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Ain Shams University
Information Network
جامعة عين شمس

شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

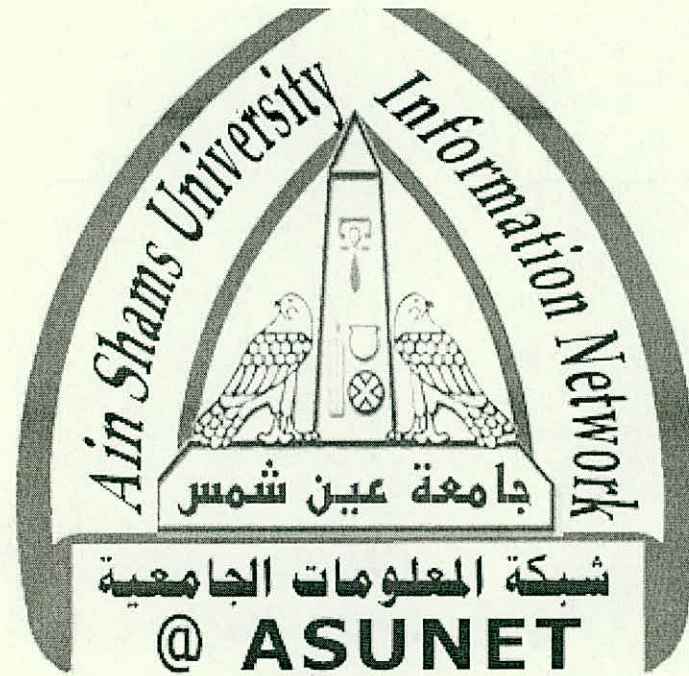
تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بالرسالة صفحات

لم ترد بالأصل



شبكة المعلومات الجامعية



بعض الوثائق

الأصلية تالفة

**Significance of Measurement of TNF- α mRNA
Load in the Follow-up of Chronic Hepatitis C
Patients Treated with Dimethyl Dimethoxy
Biphenyl Dicarboxylate (DDB)**

Thesis

*Submitted for Partial Fulfillment of MD Degree
in Basic Medical Sciences (Microbiology and Immunology).*

By

Ola Ibrahim Ahmed

M.B., B.Ch, M.Sc

Supervised By

Prof. Dr. Rasha Yossef Khalil
*Professor & Head of Microbiology and
Immunology Department*
Faculty of Medicine- Ain Shams University

Prof. Dr. Mohamed F. Montasser
*Professor of Tropical Medicine
and Hepatology*
Faculty of Medicine - Ain Shams University

Prof. Dr. Amany Mostafa Kamal
*Professor of Microbiology
and Immunology*
Faculty of Medicine- Ain Shams University

Prof. Dr. Adel Gamal El-Missiry
*Professor & Director of Medical
Research Center*
Faculty of Medicine- Ain Shams University

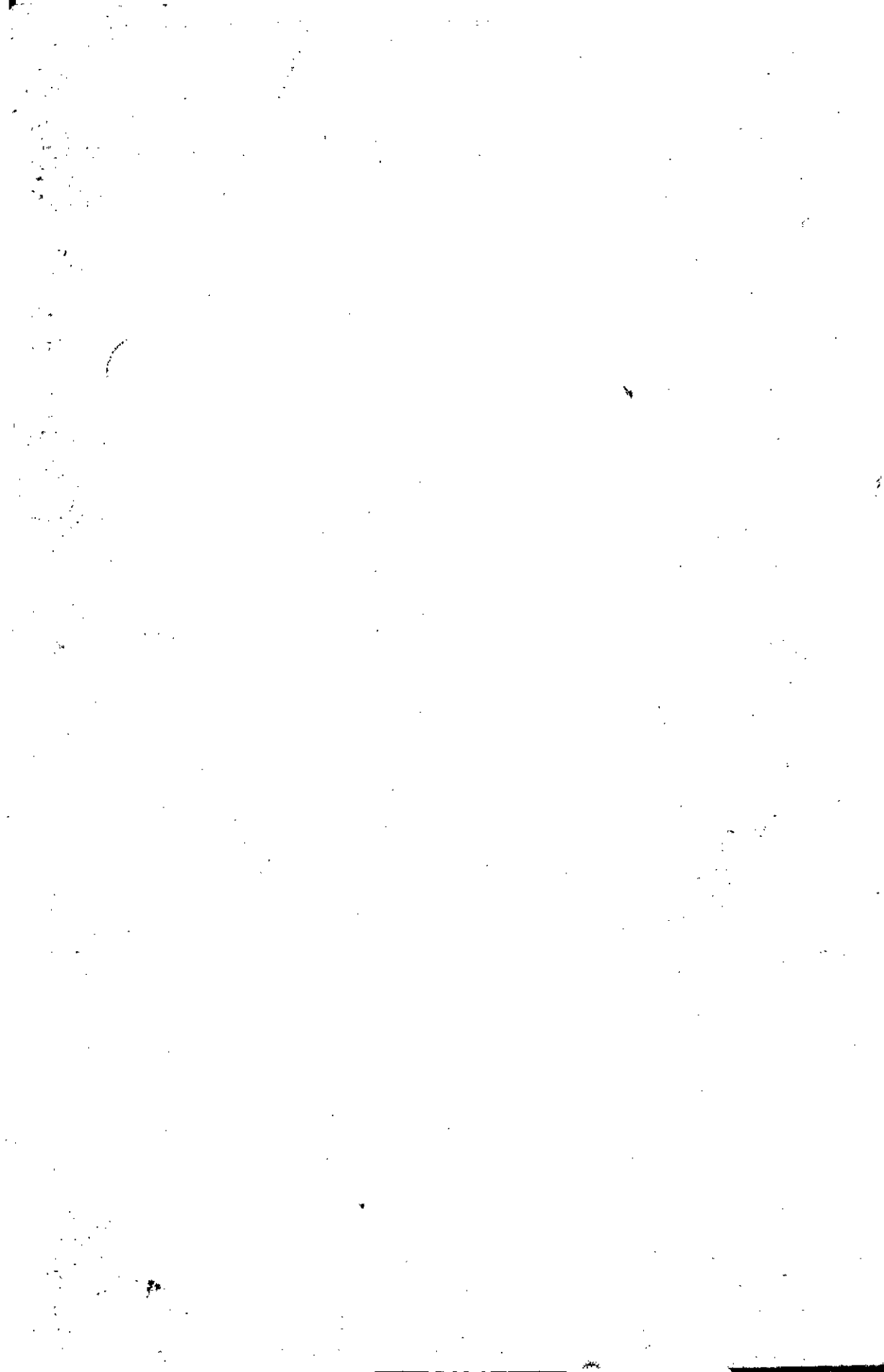
Dr. Manal Mohamed Yassin
Lecturer of Microbiology and Immunology
Faculty of Medicine - Ain Shams University

Manal Yassin

*Faculty of Medicine
Ain Shams University*

2002

B
70 PV



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ
الْعَلِيمُ الْحَكِيمُ﴾

صدق الله العظيم

سورة البقرة / الآية { ٣٢ }

TO MY SON HOSAM
THE BRIGHTEST SUNSHINE IN MY LIFE

TO MY MOTHER , FATHER AND BROTHER
FOR THEIR LOVE AND SUPPORT

CONTENTS

<i>Subject</i>	<i>Page</i>
Introduction	1
Aim of the work	2
Review of literature	3
Cytokines	
▪ Introduction	3
▪ Tumour necrosis factor	4
▪ TNF genes	5
▪ Regulation of TNF gene expression	6
▪ TNF structure	6
▪ Producers and inducers of TNF	7
▪ TNF receptors	8
▪ Biologic functions of TNF	10
▪ TNF system in chronic HCV infection	14
HCV	
▪ Discovery of HCV	17
▪ Classification of HCV	18
▪ Morphology of HCV	18
▪ Molecular virology of HCV	19
▪ HCV proteins	20
▪ HCV genotypes – subtypes and quasispecies	21
▪ Epidemiology of HCV	24
▪ Immunology of HCV	27
▪ Pathology and pathogenesis of HCV	31
▪ Clinical features of HCV	35
▪ Diagnosis of HCV	37
▪ Treatment of HCV	41
Subjects and methods	60
Results	87
Discussion	106
Summary , conclusion and recommendation	114
References	117

GENERAL INSTRUCTIONS

62

The following instructions are to be followed by all personnel in the field.

1. All personnel must be properly trained and equipped before being sent into the field.

2. All personnel must be familiar with the terrain and weather conditions before entering the field.

3. All personnel must be aware of the local population and customs before entering the field.

4. All personnel must be aware of the local laws and regulations before entering the field.

5. All personnel must be aware of the local security situation before entering the field.

6. All personnel must be aware of the local communication system before entering the field.

7. All personnel must be aware of the local transportation system before entering the field.

8. All personnel must be aware of the local medical facilities before entering the field.

9. All personnel must be aware of the local food and water supply before entering the field.

10. All personnel must be aware of the local housing situation before entering the field.

11. All personnel must be aware of the local employment situation before entering the field.

12. All personnel must be aware of the local education system before entering the field.

13. All personnel must be aware of the local religious situation before entering the field.

14. All personnel must be aware of the local political situation before entering the field.

LIST OF ABBREVIATIONS

BCG : Bacillus Calmette Guerin.
bDNA : Branched DNA.
Ccl₄ : Carbon tetrachloride.
CD : Cluster differentiation.
cDNA : Complementary DNA.
DDB : Dimethyl Dimethoxy Bicarboxylate.
E1 , E2 : Envelope 1 and 2.
EIA : Enzyme immune assay.
FDA : Food and drug administration.
GAPDH : Glyceraldehyde-3- phosphate dehydrogenase.
GM-CSF : Granulocyte macrophage colony stimulating factor.
GSH : Reduced glutathione.
HCC : Hepatocellular carcinoma.
HCV : Hepatitis C virus.
HHV : Human herpes virus.
HIV : Human immune-deficiency virus.
HLA : Human leucocyte antigen.
IFN : Interferon.
Ig : Immunoglobulin.
IL : Interleukin.
IMP : Inosine monophosphate.
IRES : Internal ribosome entry site.
Kb : kilo base.
Kd : kilo dalton.
LPS : Lipopolysaccharides.
LT : lymphotoxin.
MHC : Major histocompatibility complex.
MRC : Medical Research Center.
mRNA : Messenger RNA.
NK : Natural killer cell.
ORF : Open reading frame.
PAT : Parenteral antischistosomal therapy.

