



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكروفيلم

# بسم الله الرحمن الرحيم



**MONA MAGHRABY**



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# 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 تغييرات



## يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



**MONA MAGHRABY**

**Toll-like receptor-4 Single Gene Polymorphism  
and Chronic Periodontitis Susceptibility in  
a Sample of Egyptian Population:  
A Case-Control Study**

**Thesis**

Submitted to Oral Medicine, Periodontology, Oral  
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Ain Shams University for Partial Fulfillment of Master  
Degree in **Periodontology**

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

# قالوا

لسببائك لا علم لنا  
إلا ما علمتنا إنك أنت  
العليم الحكيم

صدق الله العظيم

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## *List of Abbreviations*

<b>Abb.</b>	<b>Full term</b>
<i>AAP</i> .....	<i>American Academy of periodontology</i>
<i>AD</i> .....	<i>Allelic discrimination</i>
<i>ANOVA</i> .....	<i>Analysis of variance</i>
<i>ASP</i> .....	<i>Aspartic acid</i>
<i>C.I</i> .....	<i>Confidence interval</i>
<i>CAL</i> .....	<i>Clinical attachment loss</i>
<i>CD14</i> .....	<i>Cluster of differentiation 14</i>
<i>CEJ</i> .....	<i>Cemento-enamel junction</i>
<i>DAMPS</i> .....	<i>Danger associated molecular pattern</i>
<i>DC</i> .....	<i>Dendritic cell</i>
<i>GI</i> .....	<i>Gingival Index</i>
<i>Gly</i> .....	<i>Glycine</i>
<i>HCV</i> .....	<i>Hepatitis C virus</i>
<i>HIV</i> .....	<i>Human immunodeficiency virus</i>
<i>ICAM-1</i> .....	<i>Intercellular adhesion molecule 1</i>
<i>IFN-<math>\beta</math></i> .....	<i>Interferon beta</i>
<i>IL-12</i> .....	<i>Interleukin 12</i>
<i>IL-6</i> .....	<i>Interleukin 6</i>
<i>Ile</i> .....	<i>Isoleucine</i>
<i>IRAK</i> .....	<i>Interleukin-1 receptor-associated kinase</i>
<i>IRF3</i> .....	<i>Interferon regulatory factor</i>
<i>LFA-1</i> .....	<i>Lymphocyte function associated antigen-1</i>
<i>LPB</i> .....	<i>Lipopolysaccharide binding protein</i>
<i>LPS</i> .....	<i>Lipopolysaccharide</i>
<i>LRR</i> .....	<i>Leucine rich repeats</i>
<i>MAMPS</i> .....	<i>Microbe associated molecular pattern</i>
<i>MAPK</i> .....	<i>Mitogen-Activated Protein Kinase</i>
<i>MD2</i> .....	<i>Myeloid differentiation protein-2</i>
<i>MENA</i> .....	<i>Middle East North Africa Region</i>

## *List of Abbreviations (cont...)*

<b>Abb.</b>	<b>Full term</b>
<i>MMP</i> .....	<i>Matrix Metalloproteinase</i>
<i>MO</i> .....	<i>Monocytes</i>
<i>MyD88</i> .....	<i>Myeloid differentiation primary response gene 88</i>
<i>NFKB</i> .....	<i>Nuclear factor kappa beta</i>
<i>OR</i> .....	<i>Odds ratio</i>
<i>PAMPS</i> .....	<i>Pathogen associated molecular pattern</i>
<i>PCR</i> .....	<i>Polymerase chain reaction</i>
<i>PD</i> .....	<i>Periodontal disease</i>
<i>PD</i> .....	<i>Probing depth</i>
<i>Pg</i> .....	<i>Porphyromonas gingivalis</i>
<i>PI</i> .....	<i>Plaque Index</i>
<i>PI3k</i> .....	<i>Phosphatidylinositol 3-kinase</i>
<i>PKB</i> .....	<i>Protein kinase B</i>
<i>RCT</i> .....	<i>Randomized clinical trial</i>
<i>RR</i> .....	<i>Relative risk</i>
<i>RSV</i> .....	<i>Respiratory syncytial virus</i>
<i>SARM</i> .....	<i>Sterile alpha and heat Armadillo motif</i>
<i>SD</i> .....	<i>Standard deviation</i>
<i>SES</i> .....	<i>Socioeconomic status</i>
<i>SLE</i> .....	<i>Systemic lupus erythematosus</i>
<i>SNP</i> .....	<i>Single nucleotide polymorphisms</i>
<i>TCR</i> .....	<i>T-cell receptor</i>
<i>Tf</i> .....	<i>Tannerella forsythia</i>
<i>Thr</i> .....	<i>Threonine</i>
<i>TIR</i> .....	<i>Toll-IL-1 receptor</i>
<i>TIRAP</i> .....	<i>Toll-IL-1 receptor adaptor protein</i>
<i>TLR</i> .....	<i>Toll-like receptor</i>

## *List of Abbreviations (Cont...)*

<b>Abb.</b>	<b>Full term</b>
<i>TRAF6</i> .....	<i>Tumor necrosis factor receptor associated factor 6</i>
<i>TRAM</i> .....	<i>TRIF related adaptor molecule</i>
<i>T-reg</i> .....	<i>T-regulatory</i>
<i>TRIF</i> .....	<i>Toll-IL-1 adaptor protein inducing interferon beta</i>
<i>VCAM</i> .....	<i>Vascular cell adhesion molecule-1</i>