

# الفيروسات المصاحبة لالتهاب المعدة الغدية فى الدواجن

رسالة علمية  
مقدمة إلى الدراسات العليا بكلية الطب البيطرى - جامعة الإسكندرية  
استيفاء للدراسات المقررة للحصول على درجة

دكتور الفلسفة فى العلوم الطبية البيطرية

تخصص  
ميكروبيولوجيا

مقدمة من  
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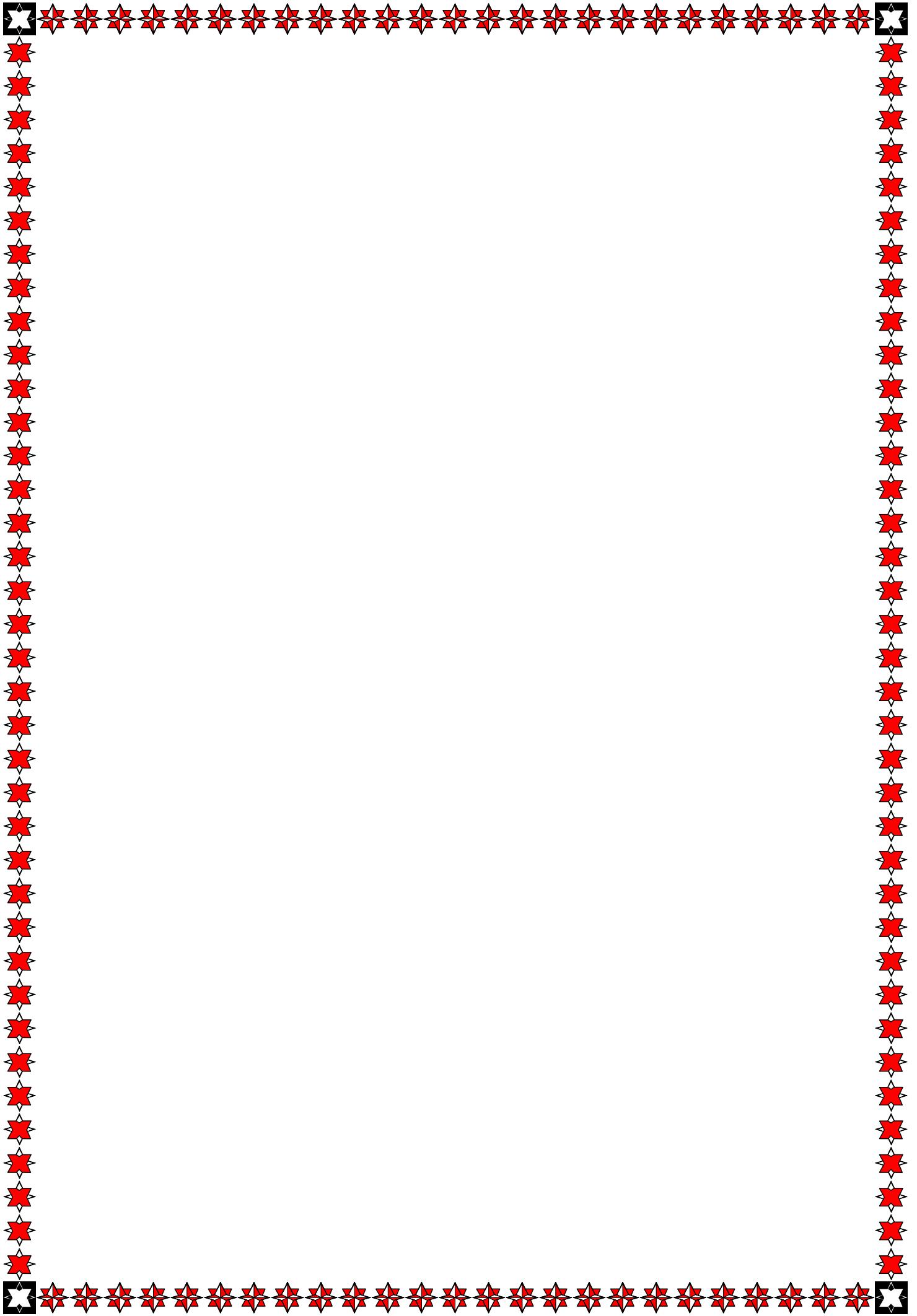
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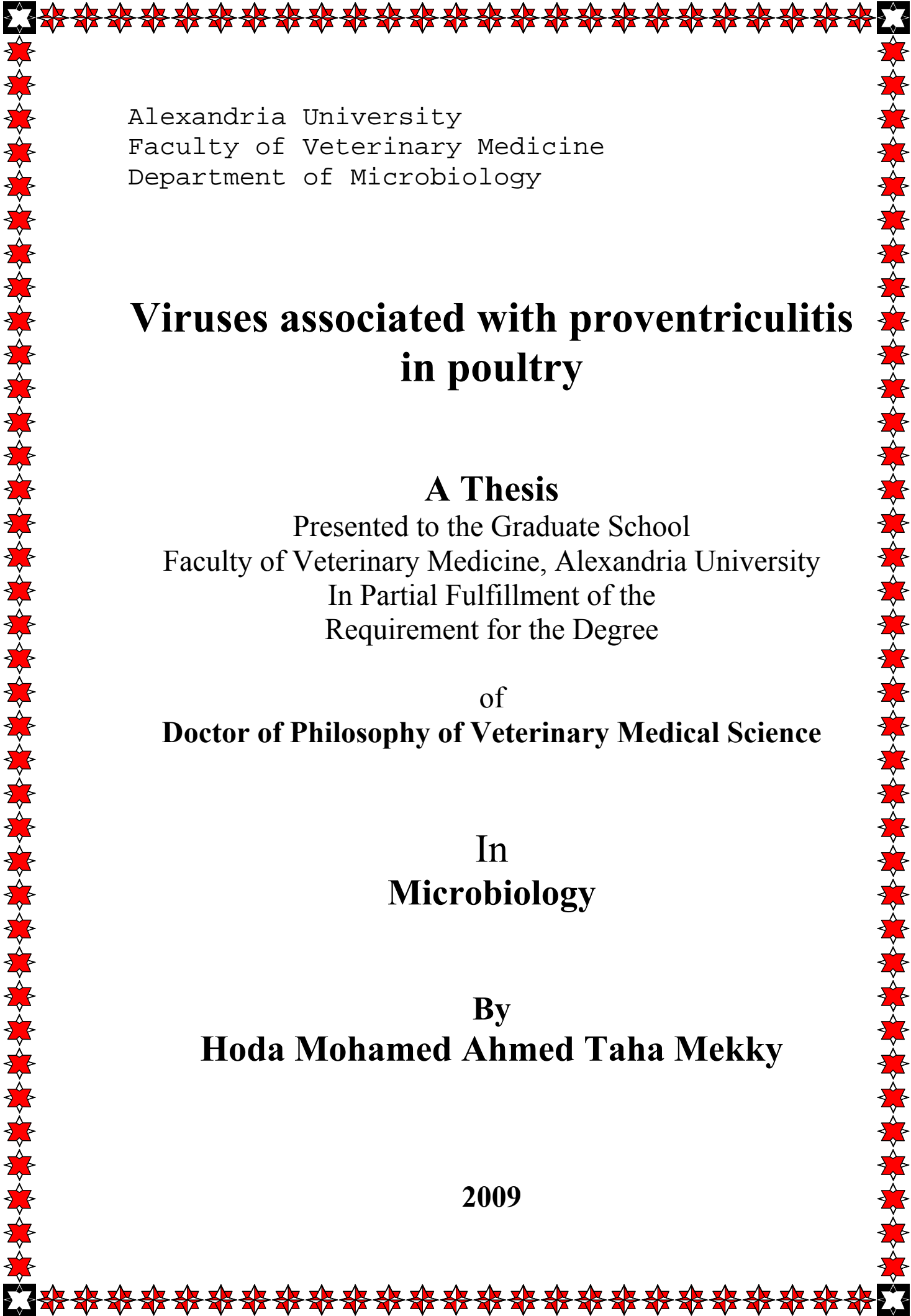
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المركز القومى للبحوث - الدقى





Alexandria University  
Faculty of Veterinary Medicine  
Department of Microbiology

# **Viruses associated with proventriculitis in poultry**

## **A Thesis**

Presented to the Graduate School  
Faculty of Veterinary Medicine, Alexandria University  
In Partial Fulfillment of the  
Requirement for the Degree

of  
**Doctor of Philosophy of Veterinary Medical Science**

In  
**Microbiology**

By  
**Hoda Mohamed Ahmed Taha Mekky**

**2009**



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تخصص

ميكروبيولوجيا

مقدمة من

ط.ب. / هدى محمد أحمد طه مكى

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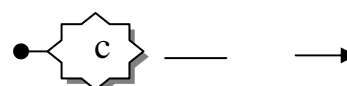
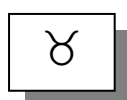
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## List of Abbreviations

<b>AGPT</b>	: Agar-Gel Precipitation Test
<b>ARV</b>	: Avian Reovirus
<b>BF</b>	: bursa of Fabricius
<b>bp</b>	: base-pair
<b>CAD</b>	: cadaverine
<b>CAM</b>	: Chorio Allantoic Memberane
<b>cDNA</b>	: complementary DNA
<b>CPA</b>	: Cyclopiazonic acid
<b>ECE</b>	: Embryonated Chicken Eggs.
<b>ELISA</b>	: Enzyme Linked Immunosorbent Assay.
<b>EM</b>	: Electron microscopic
<b>FAT</b>	: Fluorescent Antibody Technique.
<b>HA</b>	: Haemagglutination.
<b>HI</b>	: Haemagglutination Inhibition.
<b>HIS</b>	: histamine
<b>HVR</b>	: hypervariable region
<b>IBDV</b>	: Infectious Bursal Disease Virus
<b>IBV</b>	: Infectious Bronchitis Virus
<b>I-FAT</b>	: Indirect Fluorescent Antibody Techniques
<b>IHC</b>	: immunohistochemistry
<b>ISH</b>	: in situ hybridization
<b>MAb</b>	: monoclonal antibody
<b>MAS</b>	: malabsorption syndrome.
<b>Mass</b>	: Massachusetts
<b>MDA</b>	: Maternal Derived Antibody
<b>N</b>	: nucleocapsid
<b>ND</b>	: Newcastle
<b>nm</b>	: nanometer
<b>PCR</b>	: Polymerase Chain Reaction.
<b>REA</b>	: Restriction Endonuclease Analysis.
<b>RFLP</b>	: restriction fragment length polymorphism
<b>RT/PCR-RE</b>	: RT/PCR-restriction endonuclease
<b>RT-PCR</b>	: reverse transcriptase- polymerase chain reaction
<b>SN</b>	: Serum Neutralization
<b>SPF</b>	: Specific Pathogen Free.
<b>SS</b>	: stunting syndrome
<b>STC</b>	: Standard Classic Strain
<b>TVP</b>	: Transmissible Viral Proventriculitis
<b>UTR</b>	: untranslated region
<b>VP2</b>	: Viral Protein 2
<b>vvIBDV</b>	: very virulent Infectious Bursal Disease Virus



**Fig. (1): Waning of maternally derived ARV, IB and IBD antibody as measured by ELISA in experimental broiler chicks**

