

دراسات تكميلية على مدى الالتحاق الشعبى المعدى فى الدجاج

رسالة علمية

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استيفاء للدراسات المقررة للحصول على درجة

دكتور الفلسفة فى العلوم الطبية البيطرية

تخصص

صحة وأمراض الطيور

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(بكالوريوس العلوم الطبية البيطرية ٢٠٠٠)

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**FURTHER STUDIES ON INFECTIOUS BRONCHITIS
IN CHICKENS**

○●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 Sciences

In

Poultry Diseases and Hygiene

By

**MAHMOUD EL-SAID MOHAMMED SEDIEK
(M.V.Sc., Fac. Vet. Med., Alex. Univ., 2005)**

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَقُلْ رَبِّ
زِنِّي عِلْمًا

صدق الله العظيم



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List of Abbreviation

Abbr.	Title	Abbr.	Title
IB	Infectious Bronchitis	SPF	Specific Pathogen Free
IBV	Infectious Bronchitis Virus	VNT	Virus Neutralization Test
NIBV	Nephropathogenic Infectious Bronchitis Virus	M41	Massachusetts 41
RNA	Ribonucleic acid	Mass	Massachusetts
DNA	Deoxyribonucleic acid	Ark	Arkansas
CDNA	Copy Deoxyribonucleic acid	Conn	Connecticut
S	Spike	D274	Dutch
M	Membrane	H120	Holland
N	Nucleocapsid	CFU	Colony Forming Unit
ELISA	Enzyme Linked ImmunoSorbent Assay	AF	Allantoic Fluid
PCR	Polymerase Chain Reaction	Mab+	Maternal antibodies+
RT	Reverse Transcription	Mab-	Maternal antibodies-
RFLP	Restriction Fragment Length Polymorphism	PC	Post challenge
FRET	Fluorescence Resonance Energy Transfer	PI	Post Infection
UTR	Un translated Region	bp	base pair
HVR	Hyper Variable Region	EID	Embryo Infective Dose
NCBI	National Center for Biotechnology Information	E.Coli	Escherichia Coli
SARS	Severe Acute Respiratory Syndrome	ILT	Infectious Laryngotrachitis
NDV	New Castle Disease	IBD	Infectious Bursal Disease
FAV	Fowl Adeno Virus	Mass	Massachusetts
Aust	Austalian	APV	Avian Pneumo Virus
CAV	Chicken Anemia Virus	IF	Immunofluorescent
IHC	immunohistochemistry	HI	Haemagglutination Inhibition

