

بسم الله الرحمن الرحيم



-Call 4000





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





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 يعبدا عن الغبار













بالرسالة صفحات لم ترد بالأصل



Ain Shams University
Faculty of Science
Microbiology Department



Zoonotic Potential of Astroviruses in Bats and Migratory Birds

Thesis

Submitted for the Degree of Doctor of Philosophy in Science
(Microbiology)

By

Ahmed Nageh Farag El-Taweel

(M.Sc. in Microbiology, 2013)

Supervised by

Prof. Dr. Ahmed B. Barakat

Professor of Virology, Microbiology

Department, Faculty of Science,

Ain Shams University

Dr. Omar Al-Farouk Rabiee

Lecturer of Microbiology, Microbiology department, Faculty of Science, Ain Shams University

Prof. Dr. Mohamed Ahmed Ali

Professor of Virology,
Water pollution Department,
National Research Centre

Dr. Ghazi Kayali

Postdoctoral Research Associate,

Department of Epidemiology, Human

Genetics, University of Texas, USA

(2020)

Supervisors:

1- Prof. Dr. Ahmed B. Barakat

Professor of Virology, Microbiology Department, Faculty of Science, Ain Shams University

2- Prof. Dr. Mohamed A. Ali

Professor of Virology- Water Pollution Department,

National Research Centre

3- Dr. Omar Al-Farouk Rabiee

Lecturer of Microbiology, Microbiology department,
Faculty of Science, Ain Shams University

4- Dr. Ghazi Kayali

Postdoctoral Research Associate, Department of Epidemiology, Human Genetics, and Environmental Sciences, University of Texas, Houston, TX 77030, USA

Ain Shams University Faculty of Science Microbiology Department

Approval sheet

Title of Thesis:

"Zoonotic Potential of Astroviruses in Bats and Migratory Birds"

Degree: Ph.D. in Microbiology

Name of Student: Ahmed Nageh Farag El-Taweel

This thesis for Ph.D. Degree has been approved by:

Prof. Dr.	
Prof. Dr.	•
Dr.	•
Dr.	•

THIS DISSERTATION HAS NOT BEEN PREVIOUSLY SUBMITTED FOR ANY DEGREE AT THIS OR AT ANY OTHER UNIVERSITY

Ahmed Nageh Farag El-Taweel

بسم الله الرحمن الرحيم

"قُلْ إِنَّ حَلَاتِي وَنُسُكِي وَمَدْيَايَ وَمَمَاتِي لِلَّهِ رَبِّ وَمَدْيَايَ وَمَمَاتِي لِلَّهِ رَبِّ الْعَالَمِينَ"

حدق الله العظيم

الانعام – الأية 162