



Ain Shams University  
Faculty of science  
Microbiology Department

***Comparative study of rotaviruses  
and adenoviruses as viral pollution indicators  
candidates in Egyptian aquatic environment***

**A Thesis**

Submitted for the degree in Master of Science as a partial  
fulfilment for requirements of the master in Science

**By**

***Marwa Abd El-Hamid Kamel Ismael***

Microbiology Department  
Faculty of Science  
Ain Shams University  
**2014**



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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

رَبِّ أَوْزِعْنِي أَنْ أَشْكُرَ نِعْمَتَكَ الَّتِي أَنْعَمْتَ عَلَيَّ وَعَلَى  
وَالِدَيَّ وَأَنْ أَعْمَلَ صَالِحًا تَرْضَاهُ وَأَدْخِلْنِي بِرَحْمَتِكَ فِي عِبَادِكَ  
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## *Declaration*

*This thesis has not previously been submitted for any other university. The references were being checked whenever possible; show the extant to which I have availed myself of the work of other authors.*

*Marwa abd El-Hamid Kamel Ismael*

## *Dedication*

*I am deeply and forever indebted to my family and my friends for their love, support and encouragement throughout my entire life.*



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