

**Sudan University of Science and Technology**  
**College of Graduate Studies**

**Bacteriology of Clinical Mastitis in Sheep and Goats**  
**and *In Vitro* Antibiogram of the Isolates**

المسببات البكتيرية لالتهاب الضرع الإكلينيكي في الضان والماعز و اختبار حساسية البكتريا  
المعزولة للمضادات البكتيرية

Thesis submitted in fulfillment of the requirements for the Master degree  
in Veterinary Medicine (Pharmacology)

By

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## الآية

بسم الله الرحمن الرحيم

قال تعالى:

اقْرَأْ بِاسْمِ رَبِّكَ الَّذِي خَلَقَ ﴿١﴾ خَلَقَ الْإِنْسَانَ مِنْ عَلَقٍ ﴿٢﴾ اقْرَأْ وَرَبُّكَ  
الْأَكْرَمُ ﴿٣﴾ الَّذِي عَلَّمَ بِالْقَلَمِ ﴿٤﴾ عَلَّمَ الْإِنْسَانَ مَا لَمْ يَعْلَمْ ﴿٥﴾

صدق الله العظيم

(سورة العلق الآيات من 1 الى 5)

## **Dedication**

I dedicate this thesis to

**My family**, for their unconditional support during the time I was completely absent doing research and writing this thesis, and acknowledging that it might be impossible to complete without their support.