Characterization of multidrug-resistant and extended-spectrum β-lactamase-producing Gram negative bacteria in an intensive care unit

Thesis submitted for a Ph.D. degree in Science (Microbiology)

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ANNOUNCEMENT

This thesis has not been previously submitted for any degree.

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بسم الله الرحمن الرحيم

"قالوا سبحانك لاعلم لنا إلا ماعلمتنا
إنك أنت العليم الحكيم"

صدق الله العظيم

سورة البقرة الآية (٣٢)

DEDICATION

I would like to dedicate this work to my beloved parents, brothers and sisters for their encouragement, also to my dear husband for putting up with me and supporting me all through this work, and to my children wishing them a happy and successful life. Great thank to all of them.

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أتقدم بخالص الشكر والتقدير إلى السادة الأساتذة المشرفين على الرسالة والذين لهم الفضل بعد الله في ظهوره بأحسن صورة وهم:

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كما أشكر كل من ساعدني بالقول أو الفعل أثناء قيامي بهذا العمل حتى يخرج بأحسن صورة.

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