**ANTIFUNGAL POTENTIAL OF CASHEW (*Anacardium occidentale* Linn) LEAVES EXTRACT ON FUNGI ISOLATES OF GROUNDNUT SEED**

**BY**

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**APPROVAL PAGE**

This project has been presented and approved by Godfrey Okoye University, Enugu in partial fulfillment of the requirement for the award of Bachelor of Science (B.Sc.), degree in microbiology from the department of microbiology, Faculty of Natural and Applied Sciences.

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**DEDICATION**

This work is dedicated to the great architect of the universe, my lord, master and friend JESUS CHRIST and to my parents, siblings, aunties, uncles and cousins.

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My heartfelt appreciation goes to the source of the air that I breathe and source of my life, God Almighty. To my Parents, Mr.& Mrs. Udeh Hyacinth, for their understanding, love, and care. To my sponsor and guardian Rev. Fr. Okpara Dominic, my heart pours out in appreciation for providing for my needs throughout my stay in this University. I cannot fail to acknowledge the efforts of my Dean Prof. Chidi, Uhuegbu and my HOD Dr. (Mrs) M.N Unachukwu who worked tirelessly in ensuring the lecturers are update and never missed lectures.

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**TABLE OF CONTENTS**

**Contents Pages**

Title page i

Approval page ii

Dedication iii

Acknowledgement iv

Table of Contents v

List of Tables vi

List of figure vii

Abstract viii

**CHAPTER ONE: INTRODUCTION**  1

1.1 Background of study 1

1.2 Aim 3

1.3 Objectives 3

**CHAPTER TWO: LITERATURE REVIEW** 4

2.0 History of cashew (*Anacardium occidentale)* 4

2.1 Taxonomic hierarchy of *Anacardium occidentale* 4

2.2 Morphology and geographical distribution of *Anacardium occidentale* 5

2.3 Chemical compounds present in *Anacardium occidentale* and its biological roles5

2.4 Antimicrobial properties of cashew- 6

2.4.1 Antibacterial activity 7

2.4.2 Antifungal activity 8

2.4.3 Anti-inflammatory activity 9

2.5 Groundnut 11

2.5.1 Taxonomy of Groundnut seed 12

2.5.2 Economic importance of Groundnut 12

2.5.3 History of Groundnut 13

2.5.4 Botanical description 13

2.5.5 Uses of Groundnut 14

2.5.6 Chemical composition 15

2.6 The microorganism: fungi 15

## 2.6.1 Fungi associated with groundnut seeds 16

2.6.1.0 *Aspergillus* sp 17

2.6.2 Aflatoxins contamination in groundnut- 17

2.6.2.1 Overview of aflatoxins 17

2.6.2.2 History of aflatoxins 18

2.6.2.3 Types of aflatoxins 18

2.6.2.4 Implications of aflatoxins for human and animal health 19

2.6.2.5 Aflatoxin producing fungi 20

2.6.2.6 Occurrence of aflatoxin contamination in groundnut 22

2.6.2.7 Management of aflatoxin contamination in groundnut 22

2.6.2.7.1 Cultural Practices used in the Management of Aflatoxins 23

2.6.2.7.2 Physical Control of Aflatoxin production 26

2.6.2.7.3 Biological Control of Aflatoxin production 26

2.6.2.7.4 Chemical Control of Aflatoxin contamination 27

## CHAPTER THREE: MATERIALS AND METHODS 28

# 3.0 Materials and Methods 28

3.1 Sample collection 28

3.2 Collection of groundnut seeds 28

3.3 Preparation of the plant extraction 28

3.4 Qualitative phytochemical screening 30

3.5 Isolation of microorganisms 30

3.6 Identification of fungal isolates 31

3.7 Antifungal activity assay 32

3.8 Determination of Minimum Inhibitory Concentration (MIC) 33

3.9 Determination of minimum fungicidal concentration 33

**CHAPTER FOUR: RESULTS**

The phytochemical screening of the extract of cashew (*Anacardium occidentale)*

Leaves 35

Fungal isolates from groundnut seeds 36

Fungal activity of the extract on the isolates 37

Minimum inhibitory concentration (MIC) 38

Minimum fungicidal concentration (MFC)38

**CHAPTER FIVE** 40

Discussion 40

Conclusion 42

REFERENCES 43

**LIST OF TABLE**

**Table Heading Page**

1 Parameters used for extraction 29

2 Qualitative phytochemical screening of extract of cashew

(*Anacardium occidentale)* leaves. 35

3 Fungal isolates from groundnut seeds 36

4 Minimum Inhibitory Concentration (MIC) and

Minimum Fungicidal Concentration (MFC) 39

**LIST OF FIGURES**

**Figure** **Heading Page**

Zones of inhibition of cashew leaves extract 37

On three fungal isolates

**ABSTRACT**

The aim of this work was to determine the antifungal potential of ethanol extract of cashew (*Anacardiun occidentale*) leaves on fungi isolates of groundnut seed. The phytochemical analysis carried out showed presence of Flavonoids, Tannins, Saponins and Alkaloids. The isolates from groundnut seeds were *Rhizopus* sp, *Aspergillus niger* and *Aspergillus fumigatus*. The susceptibility of the fungal isolates to the extract was evaluated by agar well diffusion method. Inoculated plates were incubated at 28oC for 24-48hours. Zones of inhibition were measured and recorded. The minimum inhibitory concentration (MIC) and minimum fungicidal concentration (MFC) were determined by dilution method. The test extract inhibited the growth of the three (3) isolates in this study. The MIC varied among the isolates for *Aspergillus niger*, the MIC was 128mg/ml, 64mg/ml for *Rhizopus* sp and *Aspergillus fumigatus.* The extract showed fungicidal activities on *Aspergillus fumigatus* and *Rhizopus* sp but did not show any fungicidal activity on *Aspergillus niger.* Therefore it can be said that the extract of cashew (*Anacardium occidentale)* leaves possess antifungal properties.