

Effect of Aqueous Extract of Antiaris Africana Stem Bark on Phagocytic Activities of Human Neutrophil Ex-Vivo

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Manuscript Source: <https://www.biorxiv.org/content/10.1101/2021.03.21.436291v1>

Manuscript Authors: Ibrahim O. Bello & Adebayo L. Adedeji

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- Depending on the source of the input text, the Sentence Audit may contain occasional html artefacts that are parsed as sentences (E.g. "Download figure. Open in new tab").
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All queries, feedback or suggestions are also very welcome.

Research Paper Sections:

The sections of the research paper input text parsed in this audit.

[illegible]

Title **Effect of Aqueous Extract of Antiaris Africana Stem Bark on Phagocytic Activities of Human Neutrophil Ex-Vivo**

S1 [001] ABSTRACT

S1 [002] The immune system is one of the most complex biological systems in the body.

The immune system is one ...
... of the most complex biological systems ...
... in the body.

S1 [003] During infection, the immune system is under attack by a large number of viruses, bacteria, fungi and parasites.

During infection, ...
... the immune system is ...
... under attack ...
... by a large number ...
... of viruses, ...
... bacteria, ...
... fungi ...
... and parasites.

S1 [004] Immune response firstly involves, recognition of the pathogen or foreign object and secondly, a reaction to eliminate it.

Immune response firstly involves, ...
... recognition ...
... of the pathogen ...
... or foreign object ...
... and secondly, ...
... a reaction ...
... to eliminate it.

S1 [005] Aqueous extract of Antiaris africana is used to study their immune modulator activity.

Aqueous extract ...
... of Antiaris africana is used ...
... to study their immune modulator activity.

S1 [006] This plant has its various parts used in folk medicines.

This plant has its various parts used ...
... in folk medicines.

S1 [007] The mechanism of action has not been fully elucidated.

The mechanism ...
... of action has not been fully elucidated.

S1 [008] Therefore, this research work studies the effect of aqueous extract of *Antiaris Africana* stem bark on phagocytic activities of neutrophil isolated from apparently healthy individual using a non-subjective commercial colourimetric assay kit obtained from Cell-Biolab Inc., USA.

Therefore, ...
... this research work studies the effect ...
... of aqueous extract ...
... of *Antiaris Africana* stem bark ...
... on phagocytic activities ...
... of neutrophil isolated ...
... from apparently healthy individual ...
... using a non-subjective commercial colourimetric assay kit obtained ...
... from Cell-Biolab Inc., USA.

S1 [009] The purity and viability of isolated neutrophils were >90% and >95% respectively.

The purity ...
... and viability ...
... of isolated neutrophils were >90% ...
... and >95% respectively.

S1 [010] The extract enhances neutrophil phagocytosis at 1.0, 5.0, 10.0, 15.0, 20.0 and 25 µg/ml by 2.5%, 11.6%, 18.4%, 24.4%, 31.2% and 38.2% respectively, compared to the control (100%).

The extract enhances neutrophil phagocytosis ...
... at 1.0, ...
... 5.0, ...
... 10.0, ...
... 15.0, 20.0 ...
... and 25 µg/ml ...
... by 2.5%, ...
... 11.6%, 18.4%, ...
... 24.4%, ...
... 31.2% ...
... and 38.2% respectively, ...
... compared ...
... to the control ...
... (100%).

S1 [011] Hence, it was observed that neutrophil phagocytosis increases with increased extract concentrations.

Hence, ...
... it was observed ...
... that neutrophil phagocytosis increases ...
... with increased extract concentrations.

S1 [012] It can be concluded from the study that enhancement of phagocytosis may be the possible mechanism of action of the plant as an immune modulator.

It can be concluded ...
... from the study ...

... that enhancement ...
... of phagocytosis ...
... may be the possible mechanism ...
... of action ...
... of the plant ...
... as an immune modulator.

S2 [013] INTRODUCTION

S2 [014] Phagocytosis is one of the most important arms of host defence, which helps to trigger host defence against invading pathogens.

Phagocytosis is one ...
... of the most important arms ...
... of host defence, ...
... which helps ...
... to trigger host defence ...
... against invading pathogens.

S2 [015] Phagocytosis is a biological process that consists of series of events, beginning with the binding and recognition of particles by cell surface receptors followed by the formation of actin-rich membrane extension and the particle (Larsson et al., 2001). Since human body is constantly engaged in a bitter internal war against wide armies of microscopic enemies, phagocytosis by phagocytes prevent the body from pathogen infections (Roitt et al., 1996).

Phagocytosis is a biological process ...
... that consists ...
... of series ...
... of events, ...
... beginning ...
... with the binding ...
... and recognition ...
... of particles ...
... by cell surface receptors followed by the formation ...
... of actin-rich membrane extension ...
... and the particle ...
... (Larsson et al., 2001). Since human body is constantly engaged ...
... in a bitter internal war ...
... against wide armies ...
... of microscopic enemies, ...
... phagocytosis ...
... by phagocytes prevent the body ...
... from pathogen infections ...
... (Roitt et al., 1996).

S2 [016] Phagocytosis is essential for a variety of biological events, including tissue remodelling and the continuous clearance of dying cells among others (Larsson et al., 2001).

Phagocytosis is essential ...
... for a variety ...

... of biological events, ...
... including tissue remodelling ...
... and the continuous clearance ...
... of dying cells ...
... among others ...
... (Larsson et al., 2001).

S2 [017] The phagocytic process can be separated into several major stages such as chemotaxis, attachment of particles to the cell surface of phagocytes, ingestion and intracellular killing (Sawyer et al., 1989).

The phagocytic process can be separated ...
... into several major stages ...
... such as chemotaxis, ...
... attachment ...
... of particles ...
... to the cell surface ...
... of phagocytes, ...
... ingestion ...
... and intracellular killing ...
... (Sawyer et al., 1989).

S2 [018] The phagocytic cells include neutrophils, eosinophils, and monocytes that recognise foreign substances and invading microorganisms.

The phagocytic cells include neutrophils, ...
... eosinophils, ...
... and monocytes ...
... that recognise foreign substances ...
... and invading microorganisms.

S2 [019] Medicinal plants play important roles in various diseases and various plants have been shown to have use in pharmaceutical development.

Medicinal plants play important roles ...
... in various diseases ...
... and various plants have been shown ...
... to have use ...
... in pharmaceutical development.

S2 [020] Traditional knowledge to solve health problems of man exists in all countries of the world (Rukangira, 2001).

Traditional knowledge ...
... to solve health problems ...
... of man exists ...
... in all countries ...
... of the world ...
... (Rukangira, 2001).

End of Sample Audit

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