



## ANTIFUNGAL ACTIVITY OF MORINGA OLIEFERA LEAVES CRUDE EXTRACT AGAINST ASPERGILLUS FLAVUS AND RHIZOPUS STOLONIFER .

Buhari Suraka, Abdulkarim Sabo Mohammed and Abubakar Zakari.

\*Department Of Medical Microbiology and Parasitology, Faculty of Clinical science, Bayero University Kano, Nigeria.

### Abstract:

Moringa oliefera leaves extract have reported to have In-vitro Antifungal potential on various species of fungi. Therefore, this study was conducted in finding out the invitro effects of methanol and ethanol extracts of Moringa oleifera leaves on some fungal species (*Aspergillus flavus* and *Rhizopus stolonifer*). The fungal species were isolated from contaminated bread on sabouraud dextrose agar (SDA) using agar plate method and microscopic examination at Microbiology laboratory, Federal University Dutse. Moringa oliefera leaves were collected from Federal University Dutse botanical garden, processed and extracted using Maceration method. The extract at varying concentration (25mg/ml, 50mg/ml, 100mg/ml, 150mg/ml and 200mg/ml) were screened for their antifungal activity against the test organism. *Aspergillus flavus* is more susceptible to the extract with high mean zone of inhibition of  $12.80 \pm 0.20$ mm for methanolic extract and  $11.40 \pm 0.10$ mm for ethanolic extract compared to *Rhizopus stolonifer* with  $9.66 \pm 0.33$ mm for methanolic extract and  $8.67 \pm 0.10$ mm for ethanolic extract. Minimum inhibitory concentrations of the extract were determined with varying effectiveness of 75mg/ml for *Aspergillus flavus* and 100mg/ml for *Rhizopus stolonifer*. This study shows credence to the traditional use of Moringa oleifera leaves in the treatment of diseases caused by *Aspergillus flavus* and *Rhizopus stolonifer*.



### Biography:

Buhari Suraka is a Department Of Medical Microbiology and Parasitology, Faculty of Clinical science, Bayero University Kano, Nigeria.

### Publication of speakers:

1. -9 suppresses B cell receptor signaling and is regulated by I-branching of N-glycans. [Nat Commun. 2018]
2. Interaction of the B cell-specific transcriptional coactivator OCA-B and galectin-1 and a possible role in regulating BCR-mediated B cell proliferation. [J Biol Chem. 2006]
3. Ablation of CD22 in ligand-deficient mice restores B cell receptor signaling. [Nat Immunol. 2006]
4. CD22 and Siglec-G regulate inhibition of B-cell signaling by sialic acid ligand binding and control B-cell tolerance. [Glycobiology. 2014]
5. B Cell Siglecs-News on Signaling and Its Interplay With Ligand Binding [Front Immunol. 2018]

Webinar on Infectious Diseases | July 22, 2020 | Osaka, Japan

**Citation:** Buhari Suraka; Antifungal Activity of Moringa Oleifera Leaves Crude Extract Against *Aspergillus Flavus* and *Rhizopus Stolonifer*; Infectious Diseases 2020; July 22, 2020; Osaka, Japan