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Evaluation of Antioxidant Properties of Chloroform Extract of *Chasmanthera Dependens* Roots

Chidi Madueke *, Odirachukwu Nwanelo, Chukwuemeka Tabansi, Amarachukwu Onoh, Ikechukwu Anichebe, Anayo Okosisi and Anosike Chioma

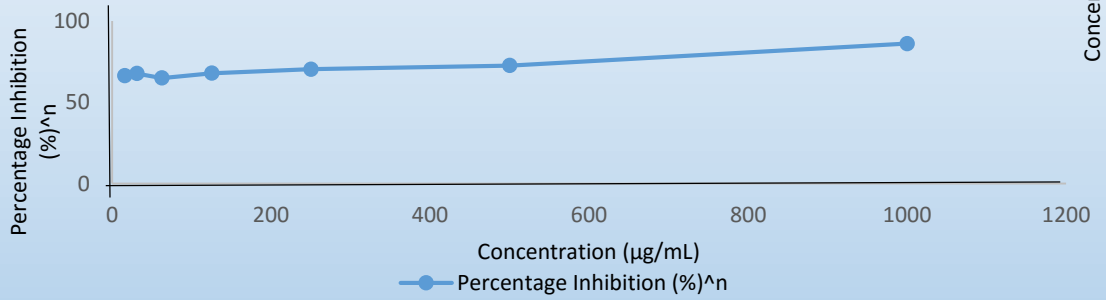
Presenting author: Amarachukwu Onoh

Ethnopharmacology, Food and Drug Delivery Research Unit, Department of Biochemistry, University of Nigeria, Nsukka, Enugu State Nigeria.

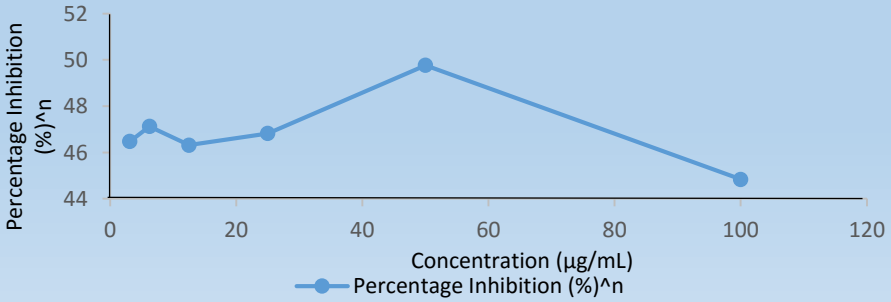
* Corresponding author: chidi.madueke@unn.edu.ng

Chasmanthera dependens is a medicinal plant with wide application in African traditional medicine for the management of several pathologies. We report the antioxidant properties of the chloroform extract of *C. dependens* root (CECDR) so as to provide further scientific information explaining some of the reported properties of the plant in human diseases.

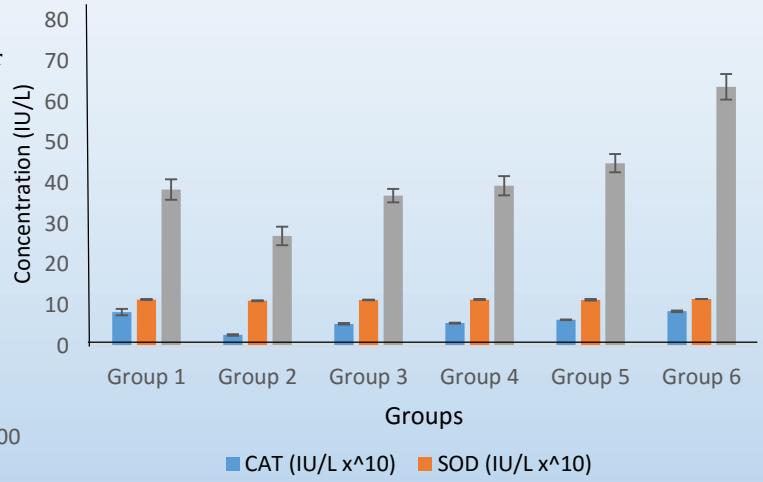
Keywords: Free radical; Antioxidant; *Chasmanthera dependens*; Ascorbic acid; CCL4.



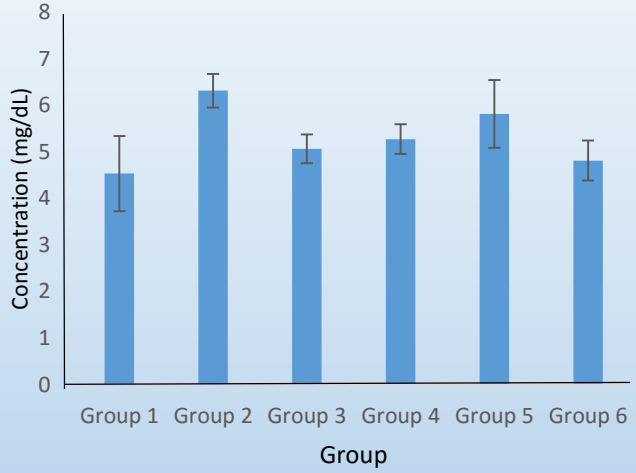
Percentage inhibition of DPPH radical by CECDR



Percentage inhibition of (H2O2) by CECDR



Effect of CECDR on endogenous antioxidants in CCl4-administed rats



Effect of CECDR on MDA in CCl4-administed rats

Ferric Reducing Anitoxidant Power and Total Antioxidant Capacity at different concenterations of CECDR

Concentration of CECDR (µg/mL)	15.6	31.1	62.5	125	250	500	1000
FRAP (µg GAE/mg)	21.18±0.15	0.72±0.06	0.37±0.03	0.19±0.01	0.11±0.00	0.05±0.00	0.03±0.00
TAC (µg AAE/mg)	15.22±7.81	17.71±7.35	7.83±3.70	3.82±0.74	3.06±0.33	2.40±0.13	1.68±0.02

CONCLUSION

In conclusion, the chloroform extract of *Chasmanthera dependens* demonstrates free radical scavenging effect which could be credited to the antioxidant activities of its constituent phytochemicals such as flavonoids, phenolics, and terpenes.