

Please note that only typewritten applications will be accepted.

**UNIVERSITY OF THE WITWATERSRAND**  
**ANIMAL ETHICS SCREENING COMMITTEE**  
**MODIFICATIONS AND EXTENSIONS TO EXPERIMENTS**

- a. Name: Nasiru Muhammad  
 b. School and email address: School of Physiology, nsmaaji@gmail.com

c. Experiment to be modified / extended

**AESC NO**

Original AESC number	2015	11	51B
Other M&Es :			0

- d. Project Title: Effects of Methanol Extract of *Moringa oleifera* Leaves on Fructose-Induced Metabolic Dysfunction in Growing Wistar Rats

	No.	Species
e. Number and species of animals originally approved:	120	Wistar
f. Number of additional animals previously allocated on M&Es:	0	
g. Total number of animals allocated to the experiment to date:	0	
h. Number of animals used to date:	0	

- i. Specific modification / extension requested: To use the Sprague Dawley strain of rats for the study instead of Wistar rats.
- j. Motivation for modification / extension: The Wistar is an outbred strain. Following discussions with the CAS, I have been informed that there may be long delays with the supply of the requisite numbers of animals to undertake the project. Previous studies have successfully used Sprague Dawley rats in high fructose diet-induced metabolic dysfunction studies (Huang et al 2004; Axelsen et al., 2010). The Sprague Dawley rats are thus an appropriate replacement strain for my study.  
 All other interventions will remain unchanged.

References

Huang BW, Chiang MT, Yao HT, Chiang W. The effect of high-fat and high-fructose diets on glucose tolerance and plasma lipid and leptin levels in rats. *Diabetes Obes Metab* 6: 120–126, 2004.

L. N. Axelsen, J. B. Lademann, J. S. Petersen et al., "Cardiac and metabolic changes in long-term high fructose-fat fed rats with severe obesity and extensive intramyocardial lipid accumulation," *American Journal of Physiology*, 298 (6): R1560–R1570, 2010.

Date: 02/02/2016

Signature:



**RECOMMENDATIONS: Approved.** The use of S Dawley rats instead of Wistar rats for the study.

Date: 3 February 2016

Signature:



Chairman, AESC