## conferenceseries.com

10th International Conference and Exhibition on

## **Obesity & Weight Management**

December 08-10, 2016 Dallas, USA

Effects of oral and subcutaneous administration of Roselle calyx (*H. sabdariffa*) extract on weight management and controls

Odigie Bolaji Efosa University of Benin, Nigeria

oselle ( L., family Malvaceae) is consumed in Nigeria as a refreshing drink and for therapeutic purposes. **K**study was to examine the e ects of ... calyx extract on the body and organ weight of Albino rats. to compare the e ects on the target organs via routes of administration (oral against subcutaneous). Sixty Albino rats of both sexes with an average weight of 204.14±2.1g (Mean±S.E.M) were assigned by sex, age and weight to a control group (VA and VB) and test groups (IA to IVA and IB to IVB). Empirical measurements on body weight was conducted prior to and a er the experiment. ey were administered with varying concentrations of the extract by oral and subcutaneous routes (10 to 50 mg/kg) for 30 days at 2 days interval. On day 31, all rats were sacriced by anaesthetization. e internal organs were excised, weighed, grossed and xed in Bouin's solution for 48 hrs prior to histological processing. Sections were obtained at 3-5 microns and stained with Mayer's haematoxylin and eosin for light microscopy. No comparable changes are observed histologically. However, gross e ects on the organs and body weight of experimental animals showed signic cant reduction when compared to the control (VA and VB) and test groups (IA to IVA and IB to IVB). In comparison, with the oral administration, empirical measurement showed a massive weight loss in the high dose treated animals (both routes of administration) but are marked in the oral route. erefore, this study suggests that calyx extracts may be used for weight management and control. However, further studies are required to examine the biochemical and hematological e ects in Albino rats.

## Do making habits or breaking habits infuence weight loss and weight loss maintenance? A randomised controlled trial

Gina Cleo Bond University, Australia

**Background:** Despite the signicance placed on lifestyle interventions for obesity management, around 40% of weight loss is regained over the rst year following treatment, and much of the rest over the next three years. Two psychological concepts (habitual behaviour and automaticity) have been suggested as the most plausible explanation of this overwhelming lack of long-term weight loss success.

**Method:** We evaluated the e cacy of two interventions that explore these theories: Ten Top Tips (10TT) and Do Something Di erent (DSD). 10TT promotes automaticity; this is the ability to perform tasks without awareness or deliberation. erefore, diet and exercise related behaviours become automatic or habitual. Conversely DSD promotes behavioural exibility. is program disrupts daily routines by assigning an individual with unstructured tasks to perform. Behavioural exibility therefore has an inverse relationship with automaticity and is de ned as the measure of an individual's range of mindful behaviours. Men and women (n=75), aged

J Obes Weight Loss Ther 2016 Volume 6, Issue 9(Suppl)