

JOINT EVENT

17th World Congress on **Nutrition and Food Chemistry**

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14th Euro **Obesity and Endocrinology Congress**

September 13-15, 2018 | London, UK

The effect of anti-appetite agent is dependent on various habituated foodsSun Shin Yi¹, Hye Kyung Baek¹, Kwang-Ho Kim¹, Hyunmook Lim¹, Haesung Yang¹, Bokyeong Ko¹ and Hyung Seok Seo²

Supported by National Research Foundation of Korea

NRF-2018R1D1A3B07047960

Soonchunhyang University, Republic of Korea

Over the several decades, increasing attention has been paid to the roles and regulatory mechanisms of pharmacological agents in the treatment of obesity. Many anorectic agents such as dl-fenfluramine can lead to substantial reduction in body weight. However, the effects of these anorectic and body weight-reducing agents are not uncommon and/or rebound weight gain may be observed following drug withdrawal. Moreover, dl-fenfluramine intake has showed anorectic property and weight-reducing effects are faded away in both human and experimental animals chronically medicated. In the present study, we performed several experiments that normal diet food and western diet, respectively habituated rats for a month each, and gave free options for food choices—both foods at the same time with dl-fenfluramine administration chronically—to investigate whether the reasons of pharmacologic tolerance problems of chronic systemic dl-fenfluramine administrations originate from long habituated food and/or specific food preference for taste and nutrient. In summary, dl-fenfluramine has known its pharmacologic effect disappeared by chronic treatments, however, its anti-appetite effect can be different by habituated foods. Therefore, we'd like to insist that the habituation or preference for specific nutrition and ingredient ratios of various foods in the obese patients can be very important to anticipate anti-obesity drugs' pharmacological success or failure before showing their tolerance according to the dl-fenfluramine results.

Biography

Sun Shin Yi has completed his PhD from Seoul National University, South Korea and Post-doctorate from Marquette University, WI, USA. Now, he is a Professor in the Department of Biomedical Laboratory Science, and an Associate Dean of Special Affairs for Planning and Chair of IACUC in the Soonchunhyang University. He has published more than 60 papers in reputed journals and a Board Member of Korea Mouse Phenotyping Center (KMPC).

admiral96@gmail.com

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