

KEUNNUNJAMI REGULATES GLUCOSE METABOLISM AND MODULATE ADIPOKINES IN OVARIECTOMY RATS

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The effects of Keunnunjami, a new purple black rice with giant embryo, on the glucose metabolisms in ovariectomized rats were investigated. The animals were fed with normal control diet (N group) or rice supplemented with either general brown rice (B group) or (K group) powder for eight weeks. The body weight gain, body fat, blood glucose and plasma insulin levels, adipokine concentrations and hepatic glucose-regulating enzymes activities levels significantly decreased in KN groups compared to those of the control animals. The K group showed greater hypoglycemic activity than N and B group, suggesting that Keunnunjami could further improve the physiological properties. These findings demonstrated that Keunnunjami may have therapeutic potential against hyperglycemia imbalance caused by menopause.

Biography

Dr. Soo Im Chung has been Graduated from Food Science and Nutrition of Kyungpook National University as Doctor of Science, with the specialties including functional foods. Presently she has been working at the International Agricultural Training Center of Kyungpook National University and researching about rice antioxidants and its effects in lipid and glucose metabolism and oxidative stress.

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