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Availability of passion flower (Passiflora incarnate L.) extract showing in improving sleep in diabetes

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In particular, sleep is known to be closely related to obesity and diabetes, so we sought to find evidence of sleep efficacy and lits use in diabetes. Insomnia is not only a decrease in neurogenesis in the hippocampus, which is the backbone of short-term memory, but also in obesity and diabetes. In this study, we investigated the amount of neuroblast expression in a short DBA/2 mouse strain with a sleep abnormality, and constructed a diabetic model of *C.elegans*. Following ingestion of Passion flower (*Passiflora incarnate L.*; PF) extract, the increase of melatonin level was confirmed in serum, and the increase of DCX was confirmed in Immuno Histo Chemistry (IHC) in PF treated groups than in the untreated group. In addition, the anti-oxidative stress evidence at the C. elegans model was obtained of the PF treatment group, and also confirmed the high survival rate. Taken togher, we found evidences that sleep efficacy of PF extracts not only improves neurogenesis in the Sub Granular Zone (SGZ) of the hippocampal dentate gyrus, but also has a positive effect through resistance to obesity and diabetes that can occur with insomnia. Through the further study, we will show that PF has various positive effect on diabetes caused by DIO mice model and genetic engineered type 2 diabetic experimental animals.

Biography

Sun Shin Yi, D.V.M., Ph.D. has his expertise in evaluation feeding behavior under hyperphagia, sleep and diabetic conditions. He has experienced at lots of preclinical studies about metabolic diseases. He has built this model after years of experience in research, evaluation, teaching and administration both in research and education institutions. He has published more than 60 papers in reputed journals and a board member of Korea Mouse Phenotying Center (KMPC).

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