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Safety assessment of Guibi-tang: Subchronic toxicity study in Crl:CD SD rats

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Guibi-tang (Kihito in Japanese and Qui-Pi-Tang in Chinese) is a multiherbal traditional Korean medicinal formula used for treatment of amnesia, fatigue, poor memory or forgetfulness, anemia, insomnia and necrosis. The aim of the present study was to investigate potential safety, if any, of subchronic administration of Guibi-tang aqueous extract (GBT) in laboratory animals. For this study, 0, 1000, 2000 and 5000 mg/kg/day of GBT was administered to Crl:CD Sprague Dawley rats (10/sex/group) for 13 weeks via oral gavage. Administration of the GBT did not result in any mortality, body weight, food consumption, hematology, serum biochemistry, clinical or ophthalmological signs or changes in urinalysis, gross findings or organ weight. However, histopathology revealed forestomach hyperplasia and duodenum mucosal hyperplasia in rats of both sexes at the highest dose of GBT, 5000 mg/kg/day. Therefore, the no-observed-adverse-effect level in rats was established for GBT at 2000 mg/kg/day under the conditions of this study.

Biography

Meeyoung Lee has completed his Master's and Doctor's degree from the College of Veterinary Medicine, Chungnam National University. He is the Researcher working in K-herb Research Center of Korea Institute of Oriental Medicine. She has published more than 10 papers in reputed journals.

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