Anxiolytic effects of Baicalin, one of active compounds in the herb Huang Qin in rats

S C Yang and K R Shieh
Tzu Chi University, Taiwan

Baicalin, one of the principal and active compounds in the traditional Chinese herb Huang Qin, has been shown to interact with the benzodiazepine binding site of gamma-aminobutyric acid type A (GABA<sub>A</sub>) receptor. Previous studies also showed that baicalin has the potential anxiolytic-like effect in the membrane binding assay in vitro and in the Vogel conflict test in ICR mice in vivo. Whether baicalin had the similar anxiolytic-like effects in rats was the main focus. In the present study, male Sprague Dawley rats were oral administration of Baicalin to test the anxiolytic-like effects. Baicalin did not influence the motor function, seizure score and novelty seeking behaviors, but did reduce the anxious responses in the behavioral responses of elevated-plus maze and open field tests. All of these findings indicate that Baicalin has the potentials to develop as the anxiolytics in the future.

Biography
S C Yang has completed her PhD from Yang Ming University. Her research fields include the neuroscience and animal behaviors.

scyang291@gmail.com

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