

P34

Change of Fatty Acid Composition in the Serum and Liver of Mouse by Inject with Sancho (*Zanthoxylum schinifolium*) Oil

Jae-Young Cha, Hyun-Jung Kim, Min-Seok Kim and Young-Su Cho

Division of Biotechnology, Faculty of Natural Resources and Life Science, *Dong-A University*

The major fatty acids in the *Zanthoxylum schinifolium* seed oil were eicosenoic acid 30.88%, oleic acid 29.94%, linoleic acid 23.55% and palmitic acid 10.52%. Fatty acid profiles in the each lipid fractions by TLC of the *Z. schinifolium* seed oil showed the highest composition of eicosenoic acid in triglyceride fraction and oleic acid in other fractions. Mice(ddY male strain) being starved for 24 hour injected into gastric directly 500 mg of the *Z. schinifolium* seed oil, and then blood obtained 0, 3 and 6 hour after dosing. Eicosenoic acid increased significantly in the serum obtained 3 and 6 hour after injecture of the *Z. schinifolium* seed oil, whereas it was not detected in serum of mouse not injected(0 hour) of the *Z. schinifolium* seed oil. However, eicosenoic acid in the liver increased significantly for 6 hours only. In conclusion, eicosenoic acid was the major fatty acid in the *Z. schinifolium* seed oil and this fatty acid increased significantly in the serum obtained 3 and 6 hour after injecture in mice.