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### The study of hepatotoxicity effect of *Momordica charantia* on rat's liver

*Momordica charantia* is commonly known as bitter gourd, economically important medicinal plant. Bitter gourd comes in a variety of shapes and sizes. The substances that contain in bitter gourd are quinine, morodicine and monorcharins. Since bitter gourd has the monorcharins as its component, therefore high consumption of bitter gourd may cause liver toxicity. Liver is a main organ in regulating homeostasis in the body. It involves all biochemical pathways related to growth, fight against disease, nutrient supply, energy provision and reproduction. In order to have and maintain a healthy liver it is very crucial. The general term used for liver damage will be hepatotoxicity. The potential hepatotoxic effect from oral administration of aqueous extraction of *Momordica charantia* which was tested with albino Wistar rats. The 20 adult male rats were divided equally into four groups with 5 rats in each. Group A kept as a control while group B, C and D were fed with 500 mg/kg body weight, 600 mg/kg body weight and 700mg/kg of the extract daily for 14 days, respectively. On the 15<sup>th</sup> day blood was withdrawn and centrifuged for serum to test ALT, AST and total protein. Final result of this study showed that AST, ALT and total protein was high significantly compared to control group with  $P < 0.05$ . In conclusion, the *Momordica charantia* aqueous extract causes hepatotoxicity at higher dosage.

### Biography

S. Venkataramanan currently working as a senior Lecturer in Management and Science University, Shah Alam, Malaysia. Basically he has Double Master's Degree first master in Biochemistry and Second master's in Bioinformatics. He has approximately 12 years' experience in Teaching/Academic Field. He had participated many International Conference like Pharmacy, Forensic and Computer Science. He has international publication in National and International Journal's. He had supervised various students Projects both bachelor and master's too. He had been involved in research projects like Research Seed Grant, FRGS (Malaysian Government Grant). His current research area is Hypothetical protein in Gastric Cancer.

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