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Regeneration of liver by *Platycladus orientalis* extract**Alok Kumar Dash**

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Liver is a vital organ of our body performing wide range of functions. Regeneration of liver by through plant extract is safe and having better patient compliance. Present study was aimed at evaluating protective ability of *Platycladus orientalis* Linn against paracetamol induced hepatotoxicity in rats. When these extracts screened for hepatoprotective activity, the results obtained from paracetamol induced hepatotoxic model in the healthy male Wister rats indicates that, after the treatment with paracetamol there was significant rise in SGOT, SGPT, ALP and total bilirubin levels which were lowered by petroleum ether extract of *Platycladus orientalis* leaf, sylimarin 25 mg/kg was taken as the standard drug. In the whole process of hepatotoxicity thioacetamide was used for toxified the liver and it showed same result as like paracetamol in toxification.

In order to detect the oxidative stress in lipid peroxidation in liver checked it's *in-vivo* antioxidant parameter like reduced glutathione (GSH), thiobarbituric acid reactive substances (TBARS), catalase (CAT) and superoxide dismutase (SOD) which

justify the antioxidant property of both the plant. Which also justify the hepatoprotective and antioxidant effect of the plant. The biochemical observations were supplemented by histopathological examination of pancreas and liver section. In histopathological observation, it was showed that the petroleum ether extract of *Platycladus orientalis* possess effectively hepatoprotective property.

Speaker Biography

Alok Kumar Dash has completed B. Pharm from IGIP, M. Pharma from KMIPS and Ph.D. degree from Suresh Gyan Vihar University (SGVU) in Rajasthan, India. He is working as an assistant professor in Institute of Pharmacy, Veer Bahadur Singh Purvanchal University in Uttar Pradesh, India. His field of research focuses on natural products chemistry, pharmacognosy, pharmacological screening and standardization method development for herbals. He has more than 40 national and international publications and 2 patents in his credit. His biography is published Asian Admirable Achievers in 2016. He received the globally reputed 'Rashtriya Gaurav Award'-2017. His profile is selected for Bharat Vikas Award Recipient of "Certificate of Excellence in Reviewing-2017" by European journal of medicinal plant, Science Domain International and has been serving as an editorial board member of International Journal of Modern botany Scientific & Academic Publishing, Asian Journal of Chemical Sciences and many more.

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