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Investigation of the effects of chrysin on paracetamol induced liver damage in rats

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In this study, it was aimed to investigate the effects of chrysin (CH) on the liver toxicity of high doses of paracetamol (PCM). A total of 35 Sprague Dawley rats were used in this study, including 5 groups with 7 rats in each group. The control group (healthy) was given orally saline (SF) only for 6 days but not any drugs. The CH group was given 50 mg/kg/day of CH orally for 6 days. The PCM group was given SF orally for 6 days, and then 500 mg/kg single oral dose of PCM 30 min. after SF treatment on the 6th day. The PCM+CH 25 mg/kg/day group was given CH (25 mg/kg/day) orally for 6 days and then single oral dose of PCM (500 mg/kg/day) 30 min. after CH treatment on the 6th day by gavage. Similarly, the PCM+CH 50 mg/kg/day group was given CH (50 mg/kg/day) orally for 6 days and then single oral dose of PCM (500 mg/kg/day) 30 min. after CH treatment on the 6th day by gavage. It was determined that in the PCM group compared with the control group, the serum ALP, ALT and AST activities increased and that the liver SOD, CAT, GPx activities and GSH levels were decreased and the liver MDA levels were increased ($P<0.05$). It was found that in PCM+CH-25 and CH-50 groups compared to the PCM group, the serum ALP, ALT, AST activities were decreased and the liver SOD, CAT, GPx activities and GSH levels were increased and the liver MDA levels were decreased ($P<0.05$).It was concluded that both doses of CH treatments were effective on PCM-induced liver toxicity.

Biography

Fatih Mehmet Kandemir has completed his PhD at from Firat University in Turkey. He has been working as an Associate Professor in the Department of Biochemistry at Ataturk University. He has published more than 33 papers in SCI and SCI expanded journals.

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