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Effects of combined treatment with ochratoxin A and citrinin on oxidative damage in kidneys and liver of rats

Dubravka Rašić, Marin Mladinić, Davor Želježić, Alica Pizent, Srđan Stefanović, Dragan Milićević, Paško Konjevoda, Maja Peraica

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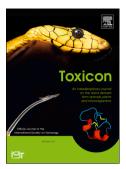
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Effects of combined treatment with ochratoxin A and citrinin on oxidative damage in

- 2 kidneys and liver of rats
- 3 Dubravka Rašić¹, Marin Mladinić,^{2, 3}, Davor Želježić², Alica Pizent⁴, Srđan Stefanović⁵,
- 4 Dragan Milićević⁵, Paško Konjevoda⁶ and Maja Peraica¹
- ¹Toxicology Unit, ²Mutagenesis Unit, ⁴Analytical Toxicology and Mineral Metabolism Unit,
- 6 Institute for Medical Research and Occupational Health, Zagreb, Croatia
- ⁵Department for Residues, Institute of Meat Hygiene and Technology, Belgrade, Serbia
- ³Clinical R&D, Xellia Ltd., Zagreb, Croatia.
- ⁶Laboratory for Epigenomics, Division of Molecular Medicine, Ruđer Bošković Institute,
- 10 Zagreb, Croatia
- 11 Corresponding author:
- 12 Dubravka Rašić, Toxicology Unit, Institute for Medical Research and Occupational Health,
- 13 Ksaverska cesta 2, Zagreb, Croatia.
- 14 Email: rasic@imi.hr
- 15 **Abstract**
- A multimycotoxin analysis approach in grains results in frequent simultaneous findings of
- 17 nephrotoxic mycotoxins ochratoxin A (OTA) and citrinin (CTN). The mechanism of CTN and
- OTA toxicities in biological systems is not fully understood but it is known that oxidative
- 19 stress is involved. In this study, oxidative damage of DNA, lipids, and the concentration of
- 20 glutathione (GSH), as well as possible antioxidative effects of resveratrol (RSV) were studied
- 21 in vivo. Male adult Wistar rats were treated orally with OTA (0.125 and 0.250 mg kg⁻¹ b.w.),
- 22 RSV (20 mg kg⁻¹ b.w.) for 21 days, CTN (20 mg kg⁻¹ b.w.) for two days or with their

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