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Title: Photolytic and photocatalytic degradation of the antipsychotic agent tiapride: Kinetics, transformation pathways and computational toxicity assessment

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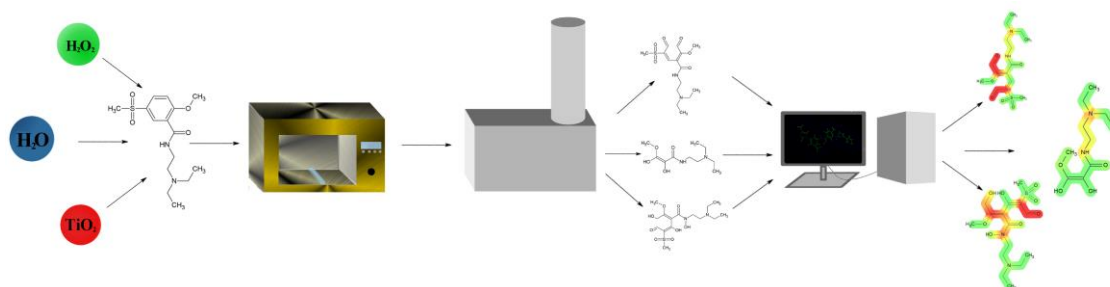
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Graphical abstract



Highlights

- Direct photolysis and photocatalysis with the use of TiO_2 and H_2O_2 of tiapride were studied
- Kinetics parameters of reactions were compared
- Twenty-one photoproducts were detected, and their structures were elucidated
- Toxicity of phototransformation products was assessed with the use of computational methods
- Toxicity as well as toxicity assessment methods were compared with the use of principal component analysis (PCA)

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