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Rosa rubiginosa and *Fraxinus oxycarpa* herbal teas: study of their phytochemical profiles and antioxidant activities

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The consumption of infusions and herbal teas has always been an important part of folk medicine. As a result, the study of their (bio)chemical properties and composition is important. In this work, the phytochemical profile and antioxidant activity of *Rosa rubiginosa* and *Fraxinus oxycarpa* herbal teas are reported for the first time. The chemical profiles were evaluated by high-performance liquid chromatography with electrospray ionization mass spectrometric detection (HPLC-ESI-MSⁿ), as well as by their total phenolic and flavonoid content. The highest percentage of compounds in the extracts of *Rosa rubiginosa* corresponded to phenolic acids and flavonoids, whereas coumarins and secoiridoids were dominant in *Fraxinus oxycarpa* extracts. The antioxidant activities were evaluated by the *in vitro* antioxidant assays DPPH and ABTS. Comparing both samples, *Fraxinus oxycarpa* presented the highest antioxidant activity. This study can contribute to a better understanding of the nutritional and health-promoting properties of uncommon herbal teas.

Biography

J Jiménez-López is developing her PhD since 2014 at University of Jaén (Spain). She has published seven papers in reputed journals. E. J. Llorent-Martínez has completed his PhD from University of Jaén and is developing postdoctoral studies at IRICA. He has published more than 60 papers in reputed journals and has been serving as an editorial board member in different international journals. P. Ortega-Barrales and A. Ruiz-Medina, both full professors at University of Jaén, have published more than 70 and 90 papers cited in the *JCR*, respectively, and more than 20 book or book chapters. Moreover, they hold different positions in university management.

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