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## Structural investigation of Fe(III) and Ga(III) complexes with aromatic hydrazones by ESI MS/MS

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Aroylhydrazones can act as neutral, monoanionic or dianionic ONO tridentate ligands [1]. The coordination abilities of aromatic hydrazones derived from nicotinic acid hydrazide and differently substituted 2-hydroxybenzaldehydes towards Fe<sup>3+</sup> and Ga<sup>3+</sup> will be discussed. Different techniques, like UV-Vis, vibrational spectroscopy and mass spectrometry were used for structural investigation of the complexes in solution and in the solid state. In this work, the ESI MS and MS/MS spectra, including fragmentation pathways of Fe(III) and Ga(III) complexes with aroylhydrazones are presented.

### Biography

Nives Galic was born in Zagreb, Croatia. She received a Ph.D. degree in Analytical Chemistry (1999). In 2016 she was elected to the position of Full Professor. During the period 2011-2017 she was the Head of the Division of Analytical Chemistry. She is a leader of the project funded by Croatian Science Foundation (IP-2014-09-4841).

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