

# Dr. Mihaela Balan-Porcărașu

**Scientific Researcher**

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## **Mihaela Balan-Porcărașu**

Has experience in using NMR spectroscopy for structure elucidation of organic compounds, polymers and supramolecular systems. She conducts studies that include detailed structural characterization of nitrogen containing heterocyclic compounds, Schiff bases, polysaccharides, polysiloxanes and polysilanes, native and chemically modified cyclodextrins and inclusion phenomena between cyclodextrins and biologically active compounds. These studies involve optimizing the experimental parameter sets and adapting them to each particular case, using bidimensional H-H, H-C or H-N correlations over one or several bonds, using NOE experiments for determination of conformation of organic compounds. She is also experienced in using NMR spectroscopy for analyzing plant extracts like juices obtained from various fruits, vegetables or plants.

**Scientific record:** She is co-author of **55** articles published in ISI journals (**h = 13** in Scopus and Web of Science, **h = 16** in Google Scholar), 4 articles published in non-ISI journals, 16 communications, 20 posters. Since 2007 until now she was involved in 13 national projects as a member in the research teams.