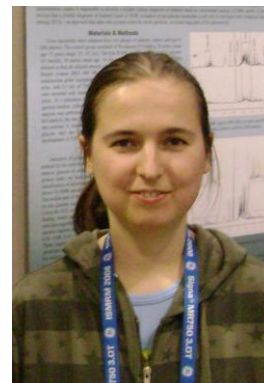


## **Curriculum Vitae – Dr. ALINA NICOLESCU**



### **Current position:**

Scientific Researcher III (CS III),  
“Petru Poni” Institute of Macromolecular Chemistry, Iași.

### **Education:**

- *PhD in Chemistry (2016)*,  
Romanian Academy Doctoral School,  
“Petru Poni” Institute of Macromolecular Chemistry, Iași;
- *Master Degree in Biomaterials (2007)*,  
Faculty of Chemistry, “Gheorghe Asachi” Technical University, Iași;
- *Bachelor Degree in Chemical Engineering (2006)*,  
Faculty of Engineering in Foreign Languages,  
“Politehnica” University, Bucharest.

### **Trainings:**

Participation in four editions (2005, 2006, 2007, 2008) of the **“International Summer School on Magnetic Resonance Imaging and Spectroscopy”**, organized by International Society for Magnetic Resonance in Medicine (ISMRM) and Romanian Cultural Institute – EMC credits recognized by the Romanian Medical College; **“Magnetic Resonance Spectroscopy” (MRS) Courses** at ISMRM-ESMRMB, Berlin (2007) and ISMRM Toronto (2008); **“Metabonomic and Metabolomic Tools in Integrated Systems Biology and Medicine” course**, Imperial College, London (2007); Participation in six **“NMR training courses”** - Basic, Advance, AMIX (2008), CP/HR-MAS (2009) and Metabolomics (2010) organized by Bruker Biospin in Rheinstetten, Germany; and **“7th International Summer School: Solid-state NMR for Liquid-state NMR spectroscopists”**, Johannes Kepler University, Linz, Austria (2015).

### **Research stages:**

- Visiting-researcher in the *Institute of Biodiagnostics, Winnipeg, Canada* (biomedical NMR group of Prof. Ian C.P Smith, 2009).

- Visiting-researcher in the *“Max Planck” Institute for Polymer Research*, Mainz, Germany (solid state NMR group of Prof. Hans W. Spiess, 2011).

**Research activities:**

14 years daily experience in structure elucidation of organic and organometallic compounds by NMR spectroscopy and extensive expertise in NMR based metabolomics of human, animal and plant biofluids. Optimization of 2D NMR experiments and pulse sequences for complete assignment of signals and stereochemical analysis of organic, organometallic, macromolecular compounds and inclusion complexes, specific techniques for <sup>15</sup>N NMR spectroscopy at natural abundance, and applications of NMR spectroscopy in the study of biological samples and foodstuff. Additional experience in IR, NIR and MS spectroscopy.

**Awards:**

- 2012 - *“Researcher of the Year Trophy for Women in Science”* awarded by *UNESCO and L’Oreal* for NMR studies of biological fluids;
- 2015 - *“Costin D. Nenitescu” Medal of the Romanian Chemical Society* for “exceptional merits in the advancement of chemistry in Romania”;
- 2018 - *Prize of the Romanian Academy* for a series of papers involving organic synthesis and structure elucidation by NMR spectroscopy.

**Scientific visibility:**

120 papers in ISI journals, more than 100 presentations (conferences, communications and posters) at national and international scientific meetings. **Hirsch Index = 20 (Scopus), 19 (Web of Science Core Collection)**. Orchid ID: [www.orcid.org/0000-0001-7022-8893](http://www.orcid.org/0000-0001-7022-8893). Total number of citations 1255 (according to Scopus), 1127 total citations, 990 without self-citations (Web of Science Core Collection). Team Leader (Responsabil) in 2 project grants (“Partnership PT-PCCA2013” and “RONO2019” Norway-Romania bilateral project), and team member in 20 national and international projects.

**Member in professional societies:**

- 2006-present, **Founding Member**, *Romanian Society for Magnetic Resonance in Medicine*;
- 2004-present, Member, *Romanian Chemical Society*.