

## Curriculum Vitae

### Senior scientific researcher I

1. Last Name: BOGDAN
2. First Name: MIRCEA
3. Date and Place of Birth: 01.07.1947
4. Citizenship: Romanian
5. Marital Status: Married
6. Education:

Institution	Period	Degrees or diplomas
Faculty of Physics Babes-Bolyai University	Oct. 1966 – June 1971	B.Sc
Faculty of Physics Babes-Bolyai University	1976 - 1982	Ph.D in Physics

### 7. Professional experience:

Institution	Period	Position	Description
INCDTIM Cluj-Napoca	1971 - 1978	Physicist	Elaborate NMR isotopic analysis methods for isotopically labeled compounds, synthesized in INCDTIM
	1978 - 1990	SR	NMR study of some molecular compounds used in nuclear energy
	1990 - 1992	SR III	NMR isotopic analysis methods to monitor the $^{235}\text{U}$ concentration in liquid $\text{UF}_6$
	1992 – 1999	SR II	Effective cross sections and intermolecular potentials for $\text{XF}_6$ (X = Mo, W, U, S) polyatomic molecules
	1999 - present	SR I	Structural and dynamical analysis of some molecular and supramolecular compounds used in pharmaceutical industry and agriculture, by NMR and connected spectroscopic techniques

### 8. Foreign Languages: english

9. Competence: Competitive binding studies of two bioligands to a protein by NMR, UV-vis, fluorescence spectroscopy and isothermal titration calorimetry

### 10. Other Specializations and Qualifications:

- 1) Associate Researcher with Institute „J. Stefan”, Ljubliana, Slovenia, 1989 (1 month), Prof. R. Blinc NMR group
- 2) Associate Researcher with Faculty of Physics, University Toronto, Canada, 1990, (3 months, UNDP fellowship) Prof. R.L. Armstrong NMR group
- 3) Associate Researcher with NMR Center, Phys. Dept., New Brunswick Univ. Fredericton, Canada (1 year 1994 – 1995) NSERC Canada fellowship,, Prof. R. L. Armstrong group

### 11. Experience (including managerial experience) in national/international programmes/projects:

Programme/Project	Position	Period	Administrated
-------------------	----------	--------	---------------

			<b>Budget</b>
<b>UNDP</b> "NMR and laser methods, applied in the study of some molecular systems"	Managing director	1988 – 1990	120.000 \$
<b>SCOPES-2000</b> "Upgrading an existing NMR laboratory" (Swiss National Foundation)	Managing director	2000- 2003	70.000 SF
<b>Capacities/Module III</b> <b>Bilateral cooperation , Romania – South Africa</b> "Structure, physicochemical properties and molecular modeling studies of host – guest type inclusion complexes"	Managing director	2008 – 2010	238.714 Ron
<b>PN-II-ID-PCE-2011-3-0032</b> "Application of spectroscopic and calorimetric techniques in the study of bioligand – macromolecule intermolecular interactions"	Managing director	2011 – 2016	1,499,400 Ron

## 12. Other relevant information:

### Selected published papers

1) I. Turcu, M. Bogdan

"Size dependence of molecular self-assembling in stacked aggregates I.NMR investigation of ciprofloxacin self-association

*J. Phys. Chem. B.* **116**, 6488-6498 (2012)

2) V. Smith, Diana Bogdan, Mino R. Caira, M. Bogdan, Susan A. Bourne, S.I. Farcas

"Cyclodextrin inclusion of four phenylurea herbicides: determination of complex stoichiometries and stability constants using solution NMR spectroscopy"

*Supramol. Chem.* **22**, (3), 172-177 (2010)

3) M. Bogdan, A Pirnau, C. Floare, Carmen Bugeac

"Binding interaction of indomethacin with human serum albumin"

*J. Pharm. Biomed. Anal.* **47**, 981 (2008)

4) M. Bogdan M.R. Caira, Diana Bogdan, C. Morari , S.I. Farcas,

"Evidence of a bimodal binding between Diclofenac-Na and  $\beta$ -CD in solution"

*J. Incl. Phenom. Macrocyc. Chem.* **49** (3-4), 225 (2004)

5) Mihaela Pop, K. Goubitz, Gh. Borodi, M. Bogdan, D.J.A.De Ridder, R. Peschar, H. Schenk,

"Crystal structure of the inclusion complex of  $\beta$ - cyclodextrin with mefenamic acid from high resolution synchrotron-powder diffraction data in combination with molecular mechanics calculations"

*Acta Crystallografica* **B58**, 1036 (2002)

54 papers published in ISI journals

**Hirsch index: 11**

**I hereby state on my own responsibility that the data presented is accurate.**

Date: 10.10.2017

Signature:

