



## PERSONAL INFORMATION

## Diana-Speranța Bogdan



 National Institute for Research and Development of Isotopic and Molecular Technologies INCDTIM Cluj-Napoca, Romania  
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 [diana.bogdan@itim-cj.ro](mailto:diana.bogdan@itim-cj.ro)

Scientific Researcher II

## WORK EXPERIENCE

01.08.2013 – present

## Scientific Researcher II

[National Research and Development Institute of Isotopic and Molecular Technologies](#) INCDTIM, 67-103 Donat St, 400293 Cluj-Napoca, Romania

[Molecular and Biomolecular Physics Department, Complex Molecular and Biomolecular Systems](#)

Atomic Force Microscopy, surface characterization, thin films, (bio)sensors, nanoparticles nanotechnology, nanoscale functional materials, nanoscale metrology

[Research and development](#)

01.09.2004-31.07.2013

## Scientific Researcher III

[National Research and Development Institute of Isotopic and Molecular Technologies](#) INCDTIM, 67-103 Donat St, 400293 Cluj-Napoca, Romania

[Molecular and Biomolecular Physics Department, Self-Assembled Molecular and Biomolecular Systems](#)

Scanning Probe Microscopy, Atomic Force Microscopy, Scanning Tunneling Microscopy, investigation of organic molecules adsorbed on semiconductor surfaces

[Research and development](#)

01.07.2001-01.09.2004

## Research Assistant

[National Research and Development Institute of Isotopic and Molecular Technologies](#) INCDTIM, 67-103 Donat St, 400293 Cluj-Napoca, Romania

[Molecular and Supramolecular Physics Department](#)

Liquid state NMR spectroscopy, host:guest chemistry, molecular inclusion complexes of NSAIDs, alkylparabens and phenylurea herbicides derivatives with native cyclodextrins ( $\beta$ -,  $\gamma$ -cyclodextrin)

[Research and development](#)

## EDUCATION AND TRAINING

2002-2007

PhD in Physics / Biophysics (*Magna cum laude*)

[Faculty of Physics, Babeş-Bolyai University of Cluj-Napoca](#)

1996-1997

MS in Physics / Atomic Physics

[Faculty of Physics, Babeş-Bolyai University of Cluj-Napoca](#)

1998-1999

MS in Geology / Petrometalogeny

[Faculty of Biology and Geology, Babeş-Bolyai University of Cluj-Napoca](#)

1996-2001

BS in Geology / Mineralogy

[Faculty of Biology and Geology, Babeş-Bolyai University of Cluj-Napoca](#)

1991-1996

BS in Physics / Technological Physics

[Faculty of Physics, Babeş-Bolyai University of Cluj-Napoca](#)

1987-1991

Baccalaureate

[Colegiul Național Gheorghe Șincai Baia Mare, Maramureș](#)

## Fellowships, grants

2009

Bourse de séjour scientifique F.R.S.-FNRS Fonds de la Recherche Scientifique, FRFC project 2.4.505.09F

Université Catholique de Louvain, Faculté des Sciences Appliquées, Louvain-la-Neuve, Belgium

Electrical and thermal properties of molecules adsorbed on metallic surfaces probed by scanning tunneling microscopy and spectroscopy (STM/STS), Atomic force microscopy (AFM), Nanofabrication ([Winfab](#))

- 2007 [NATO grant: International School of Structural Biological Magnetic Resonance](#)  
Stanford University School of Medicine, California, and Ettore Majorana Center for Scientific Culture  
[Biophysics and the Challenges of Emerging Threats](#), Erice, Italy
- 2007 [EBSA grant: European Biophysics Congress, London 2007](#)  
EBSA Young Biophysicists Satellite Meeting, Warwick University and Imperial College EPSRC Life Sciences Interface Doctoral Training Centres, European Biophysical Societies' Association, Imperial College London, UK
- 2007 [SRBPA grant: International Autumn School Biophysics for Medicine. Principles, applications, perspectives](#)  
Romanian Society of Pure and Applied Biophysics [RSPAB](#), Romanian Cultural Institute [ICR](#), International Union of Pure and Applied Biophysics [IUPAB](#) and Bioelectrochemical Society [BES](#), Mangalia, Romania
- 2005 [Marie Curie fellowship EU-project number FN6636 EG HPMP-CT-2000-000185 NMR, BNRA – Advanced NMR Spectroscopy](#)  
Radboud University, Faculty of Science, [Biophysical Chemistry](#) – Physical Chemistry Department, Nijmegen, The Netherlands
- 2005 [EUROMAR / EENC European Magnetic Resonance Conference: Magnetic Resonance for the Future, Workshop: Alignment and validation](#)  
EENC, Groupement Ampère, British NMR Group UK NMR-DG, Veldhoven, The Netherlands
- 2003 [NATO grant: International School of Structural Biological Magnetic Resonance](#)  
Stanford University School of Medicine, California, and Ettore Majorana Center for Scientific Culture, *Structure, Dynamics and Function of Biological Macromolecules and Assemblies*, Erice, Italy

#### Workshops, trainings

- 2019-2023 [Asylum Research – Oxford Instruments: AFM trainings and courses](#)  
*on site/online*, INCDTIM Cluj-Napoca, România
- 25.09-04.10.2023 [Intellectual property course](#)  
CIT-IRECSON, București
- 13.02-03.03.2017 [Theoretical and practical training in technological transfer, innovation management and entrepreneurship](#)  
GEA Strategy & Consulting SA
- 25-28.03.2013 [REQUIMTE AFM Workshop 2013](#)  
Department of Chemistry and Biochemistry, Faculty of Sciences of the University of Porto, Portugal
- 08.02-22.02.2013 [English Communications courses and Public Relations Assistant courses](#)  
IRECSON, Bucharest, MITT – ReNITT POSDRU/81/3.2/S/48531 project
- 14.02.2013, 21-23.25.28.01.2013, 06-09.12.2011, 13-17.12.2010 [Training AFM Ntegra Aura and Spectra Solar](#)  
INCDTIM Cluj-Napoca, România

#### PERSONAL SKILLS

Mother tongue	Romanian				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Portuguese	B1	C1	B1	B1	C1

Organisational / Communication skills Member in organizing committees of (inter)national conferences and events [PIM 2013](#); [PIM 2011](#); [PIM 2009](#); [PIM 2007](#) and information / publicity responsible for projects co-funded by the European Union and implemented at INCDTIM: [TTC-ITIM](#) 40-404/SMIS 105533 2016-2021, [HTPHARMA](#) 536/SMIS 12011 2010-2013, [MDFMOLBIO](#) Program Național Capacități 2008-2012

*Co-Editor* of *J Phys: Conf Ser* **182**(1), 2009

Digital competence Office, LaTeX, vector graphics (Adobe Illustrator), chemical structure (ChemWindow, Mercury CCDC), plotting tools (Xmgrace, Origin), SPM software (Gwyddion, SPIP, IgorPro)

Other skills trekking, hiking

Driving licence B

PUBLICATION LIST [UEF-ID Brainmap: U-1700-035G-2929](#)

ADDITIONAL INFORMATION

Projects

- Grant director CNCSIS / A<sub>T</sub> / 126 / 2003 *Spectroscopic characterization and molecular modeling of alkylparabens:cyclodextrins molecular inclusion complexes / Complexarea prin incluziune moleculară a parabenelor cu ciclodextrine; caracterizare spectroscopică și modelare moleculară* 3357/ 01.07.2003 (2002-2004)
- Project responsible CNCSIS / B<sub>D</sub> / 220 / 2003 *Molecular inclusion complexes / Complecși moleculari de incluziune / research grant* (2002-2004)

Member in research / management team

P3-S 3.2 ERA.NET-COFUND [InsBIOration](#) (2022-2024)  
PN-III-P4-ID-PCE-2020-1463 [IZO-PDA](#) PCE 201/2021 (2021-2023)  
PN-III-P1-1.2-PCCDI-2017-0010 [TEHNOBiOMED](#) 74PCCDI/2018 (2018-2020)  
PN-III-P1-1.2-PCCDI-2017-0387 [EMERG2IND](#) 80PCCDI/2018 (2018-2020)  
POC 2014-2020 ID 40\_404 SMIS 105533 [TTC-ITIM](#) 18/2016 (2016-2021)  
PN-II-PT-PCCA-2013-4-1374 [NANOFAB](#) 237/2014 (2014-2017)  
PN-II-PT-PCCA-2011-3.1-0402 [HINANODET](#) 98/2012 (2012-2016)  
PN-II-PT-PCCA-2011-3.1-0682 [OPEN RES](#) 212/2012 (2012-2016)  
PN-II-ID-PCCE-2011-2-0027 [BIOSENS](#) (2012-2016)  
PN-II-PT-PCCA-2011-3.2-0210 [PETOP](#) 169/2012 (2012-2016)  
PN-II-PT-PCCA-2011-3.2-1419 [GIODENT](#) 189/2012 (2012-2015)  
POS CCE 2007-2013 ID 536 SMIS 12011 [HT-PHARMA](#) 234/16.08.2010 (2010-2014)  
PN-II-ID-PCE-2008-2 [ID 875](#) 519/2009 (2009-2011)  
PROGRAM NUCLEU PN PN 09-44 01 01 (2009-2011)  
PN Capacități 2PM/I/2008 [MDFMOLBIO](#) 99/2008 (2008-2012)  
CEEX-M1-C2-1967 [MATNANTECH](#) 58/2006 (2006-2008)  
CEEX PC-D11-PT00-147 [NT-SSNMR](#) (2005-2008)  
CEEX PC-D01-PT15-137 [CALIMED](#) (2005-2008)  
CERES 4-138/2004 (2004-2006)  
CERES 4-166/2004 (2004-2006)  
CERES 4-36/2004 (2004-2006)  
PROGRAM NUCLEU PN 03-29 02.01 (2003-2005)  
CNCSIS A 430/2003 (2002-2004)  
BIOTECH 01-8-CPD-041 (2001-2004)

Date: 30.01.2024

Dr. Diana Bogdan