



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Cristina Michaela Muntean**
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E-mail cristina.muntean@itim-cj.ro
Nationality Romanian
Date of birth 31.01.1957
Gender Female

Education and training

Dates 1976-2002
Title of qualification awarded
1) Ph.D. in Physics, Specialization in Atomic and Molecular Physics (2002).
2) Specialization in Nuclear Physics (equivalent of M.S. degree, 1981).
3) B.S. in Physics (1980).
Principal subjects/occupational skills covered ***Research concerning structure and dynamics of nucleic acids***
Name and type of organisation providing education and training
1) Doctoral program in Physics, University "Babeş-Bolyai", Cluj-Napoca, Romania; April 1st, 1995-May 9th, 2002.
2) University "Babeş-Bolyai", Cluj-Napoca, Faculty of Physics, Romania, September 1980- July 1981.
3) University "Babeş-Bolyai", Cluj-Napoca, Faculty of Physics, Romania, September 1977- July 1980. University of Bucharest, Faculty of Physics, Bucharest-Măgurele, Romania; July 1976-September 1977.

Work experience

Dates November 21st, 1983 - present.

Occupation or position held	<ol style="list-style-type: none"> 1) Senior Researcher I (since January 1st, 2010); 2) Senior Researcher II (September 1st, 2006-December 31st, 2009); 3) Senior Researcher III (April 1st, 1996-August 31st, 2006); 4) Scientific Researcher (August 1st, 1990-March 31st, 1996); 5) Research Physicist (November 21st, 1983 -July 31st, 1990).
Main activities and responsibilities	<p>Researches in the field of DNA structure and dynamics, as proved by vibrational spectroscopy: I have initiated and developed this research direction in our institute.</p> <p>I was between 2013-2016, 2009-2011, 2001-2006, 1985-1999, the project manager and the principal investigator of independent research projects, coordinating research groups.</p>
Name and address of employer	National Institute for Research and Development of Isotopic and Molecular Technologies, 400293 Cluj-Napoca, Donat Street Nrs. 67-103, P.O. 5, Box 700, Cluj, Romania.
Type of business or sector	Research and Development (Public)
Other positions held	<p><i>-Visiting scientist</i>, University of Osnabrück, Department of Physics, Biophotonics Group, Osnabrück, Germany, working between September-November, 2011.</p> <p><i>-Visiting scientist</i>, ISAS-Institute for Analytical Sciences, Department of Proteomics, Dortmund, Germany, working between September-November, 2008.</p> <p><i>-Visiting scientist</i>, Max Delbrück Center for Molecular Medicine, Biopolymer Spectroscopy Group, Berlin-Buch, Germany, working between September-November, 2004.</p> <p><i>-Visiting scientist</i>, Max Delbrück Center for Molecular Medicine, Biopolymer Spectroscopy Group, Berlin-Buch, Germany, working between September-November, 2003.</p> <p><i>-Visiting scientist</i>, University Paris Nord-13, Medical Faculty, Bobigny Cedex, Paris, France, working between May-July 1999.</p> <p><i>- Visiting scientist</i>, University of Twente, Biophysical Technology Group, Department of Applied Physics, Enschede, the Netherlands, working between October 1993-February 1994.</p>
Research Area	Nucleic acids structure and dynamics
Principal research fields	<ul style="list-style-type: none"> - Investigation of nucleic acids structure and dynamics, as proved by vibrational spectroscopy: confocal Raman spectroscopy, surface-enhanced Raman spectroscopy (SERS), UV resonance Raman spectroscopy, Fourier transform infrared spectroscopy (FT-IR) - Biophotonics in DNA-based molecular diagnosis

Personal skills and competences

Mother tongue(s) Romanian

Other language(s) English, German, French

Self-assessment
European level ()***English****German****French**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C2
B2	B2	A2	A2	B1
A1	A1	A1	A1	A1

(*) *Common European Framework of Reference for Languages*

Organisational skills and competences

Demonstrate substantial authority, innovation, autonomy, scholarly and professional integrity and sustained commitment to the development of new ideas or processes at the forefront of work or study contexts including research.

Digital competence

Programs for data analysis

Additional information

- <http://en.itim-cj.ro/portfolio/muntean-cristina-michaela/>-Dr. Cristina M. Muntean is *Laureate of Constantin Miculescu Award in Physics of the Romanian Academy* for the year **2013**, based on her published papers on *vibrational spectroscopy of DNA*.

2008-2014: supplanted elected member of the Scientific Council of my institute INCDTIM Cluj-Napoca, Romania;

2014-2018: elected member of the Scientific Council of my institute.

Reviewer:

<i>ACS Omega, ACS Publications</i>	<i>Australian Journal of Chemistry, CSIRO Publishing</i>
<i>Journal of Raman Spectroscopy, Wiley</i>	<i>Croatica Chemica Acta, Croatian Chemical Society</i>
<i>Vibrational Spectroscopy, Elsevier</i>	
<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Elsevier</i>	<i>BioMed Research International, Hindawi Publishing Corporation</i>
<i>Microelectronic Engineering, Elsevier</i>	<i>Journal of Molecular Structure, Elsevier</i>
<i>Journal of Applied Microbiology Wiley</i>	<i>Spectroscopy An International Journal, IOS Press</i>
<i>FEBS Letters, Wiley</i>	<i>Biomedical Spectroscopy and Imaging, IOS Press</i>

I am **major editor of a book**, Transworld Research Network Publishers, Trivandrum, Kerala, India.

Member in Editorial Board of the journal Biomedical Spectroscopy and Imaging, IOS Press.

Guest Editor of the journal Chemosensors, MDPI Basel.

Membership in Professional Organizations: Romanian Society of Physics; Romanian Society of Pure and Applied Biophysics; Founding member and member of the International Society on Optics Within Life Sciences (1990-2008); Biophysical Society, USA (1996, 1997); Dutch Biophysical Society (1996-2002); European Biophysical Societies' Association.

Reviewer UEFISCDI Romania

I was present as participant to the following international meetings abroad:

- 1) Garmisch-Partenkirchen, F.R. Germany, 12-16 August 1990, 1st International Conference on Optics Within Life Sciences, Satellite Conference to the 15th **Congress of the International Commission for Optics**;
- 2) York, England, 1-6 September 1991, 4th **European Conference on the Spectroscopy of Biological Molecules**;
- 3) Loutraki, Club Poseidon, Greece, 18-22 May 1992, 2nd **International Symposium on Metal Ions in Biology and Medicine**;
- 4) Thessaloniki, Greece, 21-23 May 1992, 9th **Balkan Biochem. Biophys. Days**;
- 5) Budapest, Hungary, July 25-30, 1993, 11th **International Biophysics Congress**, Budapest, Hungary;
- 6) Szeged, Hungary, July 31-August 2, 1993, **International Symposium on Biological Physics "Dynamics and Function of Biomolecules"**, satellite meeting of the 11th **International Biophysics Congress**, Budapest, Hungary;
- 7) Loutraki, Club Poseidon, Greece, 5-10 September 1993, 5th **European Conference on the Spectroscopy of Biological Molecules**;
- 8) Utrecht, The Netherlands, **Meeting of the Dutch Biophysical Society** concerning Molecular Biophysics "Talents in Molecular Biophysics", February 11th, 1994;
- 9) Miramare, Trieste, Italy, 29 June-7 July 1995, "Quantitative Biophysics at the Molecular and Macromolecular Scales", **Workshop** and Adriatico Research Conference, Trieste, Italy, 29 June-7 July 1995;
- 10) Amsterdam, The Netherlands, XIIth **International Biophysics Congress**, 11-16 August, 1996 (EU support through PHARE project);
- 11) Miramare, Trieste, Italy, 16 March - 27 March 1998, **Workshop** on the Structure of Biological Macromolecules;
- 12) Paris, Bobigny Cedex, France, 28th June, 1999, **Scientific Session** of the University Paris Nord-13;
- 13) Miramare, Trieste, Italy, 1-12 October 2001, **College on Biophysics: From Molecular Genetics to Structural Biology**;
- 14) Montpellier, France, August 27th-September 1st, 2005, 15th IUPAB & 5th **EBSA International Biophysics Congress**;
- 15) Rovinj (Red Island), Croatia, 16 – 28 September 2006, 9th **International Summer School on Biophysics SUPRAMOLECULAR STRUCTURE AND FUNCTION**;
- 16) Erice, Sicily, Italy, 2-17 July, 2009, **Nato Advanced Study Institute on BIOPHOTONICS: spectroscopy, imaging, sensing, and manipulation**, Ettore Majorana Foundation and Centre for Scientific Culture;
- 17) Genoa, Italy, 11-15 July, 2009, 7th **EBSA European Biophysics Congress**;

- 18) Rovinj (Red Island), Croatia, September 19 – October 1, 2009, 10th **International Summer School on Biophysics - SUPRAMOLECULAR STRUCTURE AND FUNCTION**;
- 19) Florence, Italy, 29 August - 3 September 2010, 30th European Congress on Molecular Spectroscopy with GISR 2010, **EUCMOS 2010**;
- 20) Budapest, Hungary, 23-27 August, 2011, 8th **EBSA European Biophysics Congress**;
- 21) Düsseldorf, Germany, August 24th-29th, 2014, 32th European Congress on Molecular Spectroscopy (**EUCMOS 2014**).
- 22) Vienna, Austria, July 12th - July 17th 8th International Conference on Advanced Vibrational Spectroscopy, **ICAVS8, 2015**.
- 23) Miramare, Trieste, Italy, 06-10 February, 2017, **Preparatory School to the Winter College on Optics: Advanced Optical Techniques for Bioimaging**.
- 24) Miramare, Trieste, Italy, 13-24 February, 2017, **Winter College on Optics - Applied Optical Techniques for Bio-imaging: Advanced Microscopy and Spectroscopy in Life and Environmental Sciences**.