

PERSONAL INFORMATION

Martin Flavia Adina



Location: Institutional Address: Molecular and Biomolecular Physics Department, National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), 67-103 Donat Street, RO-400293, Cluj-Napoca, Romania

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Date of birth: 18.10.1981 | **Nationality:** Romanian

WORK EXPERIENCE

2006 - to date

Junior Researcher, Senior Researcher, Senior Researcher III

National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), 67 -103 Donat Street, RO-400293, Cluj-Napoca, Romania

- **Physics and Technology of Isotopes Department**
Synthesis of L-amino acids and barbiturates isotopically labeled with ¹⁵N
- **Molecular and Biomolecular Physics Department**
Preparation of new solid forms of Active Pharmaceutical Ingredients (APIs) by high-throughput methods; Terpyridine-terminated Self-Assembled Monolayers (SAMs) on gold substrate for metal ions sensing

2008 - 2011

Senior Researcher

Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, 1 Arany János Street RO-400028, Cluj-Napoca, Romania

- Synthesis of Melamine dendritic structures with Serinolic terminations

EDUCATION AND TRAINING

2007-2012

PhD degree in Chemistry

joint PhD thesis between "Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineering Cluj-Napoca, Romania and University of Rouen, France

- Thesis Title : " π -deficient dendritic systems with serinols or diazines peripheral units: synthesis, stereochemistry and supramolecular properties" / Scientific advisors: Prof. Dr. Mircea Dărăbanțu (UBB) and Prof. Dr. Yvan Ramondenc (Univ. Rouen)

2007

Master degree in Advanced Organic Chemistry

"Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

- Thesis Title: "Synthesis of barbituric acid isotopically labeled with ¹⁵N" / Advisor: Prof. Dr. Mircea Vlasa

2000-2005

Bachelor Degree in Chemical Engineer

"Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca

1996-2000

Baccalaureate

"Onisifor Ghibu" Highschool, Cluj-Napoca, Romania

SCHOLARSHIPS,
WORKSHOPS AND COURSES

january 2009 - july 2010

Research stage

Research Institute of Fine Organic Chemistry (IRCOF), University of Rouen, UMR 6014, 76131 Mont-Saint-Aignan, France

- "Star-type dendritic structures of G0-G1 generation containing π -deficient diazine units with applications in fluorescence" / Scientific advisor: Prof. Dr. Yvan Ramondenc

april 2008 - september 2010

Research project BD type

"Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineering Cluj-Napoca, Romania

- " π -deficient dendritic systems with serinols peripheral units: synthesis, stereochemistry and potential supramolecular properties" / Budget: 10.000 Euro

http://old.uefiscdi.ro/userfiles/file/BURSE%20BD/Rez_BD_2008_NOI.pdf

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	C1	B2	B2	B2

Communication skills ▪ Enjoy working as a team member, excellent written and verbal communication skills, flexible

Organisational / managerial skills ▪ well developed skills in prioritizing, organization, decision making, time management

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

- good command of Office suite (word processor, spread sheet, presentation software)
- chemical drawing software: ChemDraw; 3D view structures: Mercury, Diamond
- 3D representation tools: Origin; database: PDF-4, Reaxys, Scifinder
- acquiring and analyzing NMR data: MestRe-C, WIN-NMR, Topspin

Driving licence B

ADDITIONAL INFORMATION

Publications **25** scientific publications in ISI journals / h-index: 8

Projects **9** projects as a member in research team

Most relevant:

- ANCSI Core Programme, PN16-300203 / *Frontier research dedicated to the development of molecular technologies*, 2016-2017, *Responsible of the Phase 5: The increase of bioavailability of active pharmaceutical substances through the formation of supramolecular complexes with dendrimers / Drugs-PAMAM-NH₂-OH supramolecular complexes through non-covalent interactions / Coordination of activities of 7 members research team: 2 Senior Researchers II (Physicists), 1 Senior Researcher III (Chemist), 2 Postdoc (Chemists), 2 Technicians*
<https://www.itimcj.ro/index.php?menu=2&submenu=301P7>
- PN-II-ID-PCCE-2011-2-0027 / *Ion sensing and separation through modified cyclic peptides, cyclodextrins and protein pores: BIOSENS*, 2012-2016 / *Self-assembled monolayers by covalent attachment on gold surfaces for developing sensors for metal ions sensing* / <http://science.research.uaic.ro/biosens/>
- POS-CCE, Priority Axis 2 Contract 234, ID 536/2010 / *Modern methodologies of high-throughput type for obtaining and characterization of new solid forms of pharmaceutical compounds: HT-PHARMA*, 2011-2014 / <http://www.itim-cj.ro/pos/htpharma>
- PN-II-ID-PCE-2011-3-0128 Contract 260/05.10.2011 / *Iterative synthesis. New dendritic melamines incorporating serinolic units. Design, preparation, structural analysis and potential applications*, 2011-2013 / *Iterative synthesis and structural characterization of N-substituted melamines G-2 with cyanuric chloride as branch cell, serinols and (O,O-masked)-4-piperidone derivatives or amino-1,3-dioxanes with p-phenylserinols as end groups* / <http://chem.ubbcluj.ro/~darab/projects.html>