


PERSONAL INFORMATION **ADINA-ELENA SEGNEANU**

 Bld V. Parvan nr 4, Timisoara, Romania



 adina.segneanu@e-uvt.ro

WORK EXPERIENCE

Jun 2022- present

Scientific Researcher

Institute for Advanced Environmental Research-West University of Timisoara – Department of Biology-Chemistry

- Research, development and innovation
- Synthesis of advanced materials for Environmental Protection, Health, Agriculture, Energy
- Synthesis methods for bioactive compounds, natural compounds
- Identification and structural analysis of active principles from plants
- Development of techniques for analysis and characterization (Spectroscopy, Chromatography)
- Coordination and monitoring of scientific activity
- Development of scientific projects
- R&D project management
- Development systems processes and technologies
- Dissemination of scientific results

Sector: Chemistry- Synthesis and Characterisation

Jun 2018- May 2022

Specialist Referent

West University of Timisoara- Department of Scientific Research and University Creation

- Management of projects
- Dissemination
- Collection and analysis of scientific data (articles, books, book chapters, etc)

Aug.2016-August 2022

Senior researcher

SCIENT Analytcs SRL,

1 Petre Ispirescu, Tancabesti- Snagov, 077167 Ilfov, Romania

- Research, development and innovation
- Synthesis of advanced materials for Environmental Protection, Health, Agriculture, Energy
- Synthesis methods for bioactive compounds, natural compounds
- Identification and structural analysis of active principles from plants
- Development of techniques for analysis and characterisation (Spectroscopy, Chromatography)
- Coordination and monitoring scientific activity
- Development of scientific projects
- R&D project management
- Development systems processes and technologies
- Dissemination of scientific results

Sector: Chemistry- Synthesis and Characterisation

Nov.2015- Aug.2022

Senior researcher

SCIENT - Research Center for Instrumental Analysis, CROMATEC- PLUS SRL,

1 Petre Ispirescu, Tancabesti- Snagov, 077167 Ilfov, Romania

- Research, development and innovation
 - Synthesis of advanced materials for Environmental Protection, Health, Agriculture, Energy
 - Synthesis methods for bioactive compounds, natural compounds
 - Identification and structural analysis of active principles from plants
 - Development of techniques for analysis and characterisation (Spectroscopy, Chromatography)
 - Coordination and monitoring scientific activity
 - Development of scientific projects
 - R&D project management
 - Development systems processes and technologies
 - Dissemination of scientific results
- Sector:** Chemistry- Synthesis and Characterisation

June 15, 2016- April 28, 2017

Senior researcher
University Politehnica Timisoara, Piata Victoriei nr.2, 300006 Timisoara, Timis
Research Institute for Renewable Energy

- Coordination and achievement of scientific activity
 - Dissemination of scientific results
- Sector:** Chemistry- Synthesis and Characterisation

May 15, 2015– March30, 2016

Senior researcher
University Politehnica Timisoara, Piata Victoriei nr.2, 300006 Timisoara, Timis,
Research Institute for Renewable Energy

- Coordination and achievement of scientific activity
 - Dissemination of scientific results
- Sector:** Chemistry- Synthesis and Characterisation

Nov. 2007-Dec.2015

Senior researcher
National Institute of R&D for Electrochemistry and Condensed Matter
Timisoara, 144 A. P. Podeanu, 300224 Timisoara, Timis, Romania

- Research and development
 - Synthesis of Advanced materials for Environmental Protection, Health, Agriculture, Energy
 - Synthesis methods for bioactive compounds, natural compounds
 - Development of techniques for analysis and characterisation (Spectroscopy, Chromatography)
 - Coordination and monitoring scientific activity
 - Development of scientific projects
 - R&D project management
 - Development systems processes and technologies
 - Dissemination of scientific results
- Sector:** Chemical and Electrochemical Synthesis

EDUCATION AND TRAINING

22 August 2023

Leading Researcher in Chemical engineering, medical engineering, materials science, and nanomaterials (Order of the Ministry of Research, Innovation and Digitalization no. 21015)

Oct. 2002- Feb. 2007

Doctor Diploma in Chemistry
 University Politehnica Timisoara, Romania

EQF: Level 8: PhD

- Development and characterization of new carbonate compounds used in peptide synthesis
 - peptide synthesis techniques
 - analysis and synthesis techniques for organic compounds
 - knowledge of biochemistry, economy, etc.
- Oct.2018- June 2020 **Master's degree**, study program Physics and Advanced Materials Technology
West University of Timisoara - Faculty of Physics
- Techniques for synthesizing new materials and nanosystems with well-defined properties
 - Materials structure investigation techniques
 - Optical and spectroscopic techniques for characterizing materials
 - Testing experimental data with the results of different theoretical methods
 - Creative application of research and problem-solving techniques

PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	B1	B1	B1
	Communication in English- IRECSON. Certificate acknowledged by Minister of Labour, Family and Social Protection and Minister of National Education (2013).				
Spanish	B1	A2	A2	A2	A1
Italian	B2	B1	B1	B1	B1
French	A2	A2	A2	A2	A2
German	A1	A1	A1	A1	A1
	Communication in German- IRECSON. Certificate acknowledged by Minister of Labour, Family and Social Protection and Minister of National Education (2013).				

Communication skills ▪ good communication skills gained through my experience as project director

Organisational / managerial skills ▪ leadership (currently responsible for a research team of 10 people)
 ▪ good organizational skills gained as project director, master and Ph.D. students guidance
 ▪ good team-leading skills gained as head of the Laboratory

Job-related skills ▪ mentoring skills (as Head of Laboratory was my responsibility to train and to transfer knowledge to young researchers)
 ▪ good command of organic chemical technology

Computer skills ▪ good command of Microsoft Office™ tools
 ▪ Outlook, Chemoffice, etc.

Other skills

- **Technical and Extrajudicial Expert** –Expertise: **Chemistry** - AGIR SETEC (**2015**)
- **Innovation manager** – organised by IRECSON Certificate acknowledged by Minister of Labour, Family and Social Protection and Minister of National Education (**2013**)
- **Project Management** – Certificate from European Institute for Correspondence Courses –EUROCOR (**2012**);
 - **Accessing of EU funds** (techniques of structural funds). Certificate from European Institute for Correspondence Courses –EUROCOR (**2012**)
- **Management** organised by SC. Expert Consulting SRL Timisoara. Certificate acknowledged by Minister of Labour, Family and Social Protection and Minister of National Education (**2009**)
 - **Project Management** - organised by Chamber of Commerce, Industry and Agriculture Timisoara. Certificate acknowledged by Minister of Labour, Family and Social Protection and Minister of National Education (**2008**)
- **Postgraduate course in UV-VIZ Spectroscopy.** Certificate from organised by SC Comporter SRL Bucuresti (**2011**).
- **Postgraduate course in FT-IR Spectroscopy.** Certificate from SC Comporter SRL Bucuresti (**2011**).
- **Postgraduate course in GC-MS (system: gas chromatography and mass spectrometry).** Certificate from SC Comporter SRL Bucuresti (**2011**).
- **Postgraduate course in HPLC-MS (system: liquid chromatography and mass spectrometry).** Certificate from SC Comporter SRL Bucuresti (**2011**).
- **Postgraduate course in HPLC.** Certificate from SC Comporter SRL Bucuresti (**2008**)

ADDITIONAL INFORMATION

Driving Licence

B

PUBLICATIONS

- 1 book abroad
- 10 Book chapters published abroad
- 42 articles
- 40 ISI articles (Wos, Scopus)
- 3 patents
- 10 patents request

Scientific Conferences

- over **100** scientific papers communicated at international conferences
- **17** scientific papers communicated at national conferences

RESEARCH PROJECTS

- Project director at 4 scientific national grants
- Project direct a 3 international scientific grants (bilateral projects: Romania-Slovenia, Romania-China, Romania-Slovakia)
- International Workshop Co-chair
- Team member in over 30 scientific projects

Other projects

Process improvement specialist – POC project -SupportTM (Support center for participation in international projects, 2019-2023)

HONOURS AND AWARDS

- **Gold medal** at International Exhibition of Inventions of Geneva, Switzerland, **2015**
- **Special award- Gold medal** of Incubator of invention at International Exhibition of Inventions of Geneva, Switzerland, **2015**;
- **3 Gold Medals** at International Exhibition of Inventions and Innovation "Traian Vuia" of Timisoara, Romania, **2015**;
- **Gold medals** at International Exhibition of Inventions and Innovation "Traian Vuia" of Timisoara, **Romania, 2019, 2022, 2023**
- **3 Gold Medals** at International Exhibition of Inventions and Innovation "Traian Vuia" of Timisoara, Romania, **2016**
- **Gold medal** at International Exhibition of Inventions of Geneva, Switzerland, **2013**,
- **Gold medal at Innova Eureka Bruxelles 2014**;
- **Excellence Diploma at** International Exhibition of Inventions PROINVENT, **2016**
- **Excellence Diploma** from "Pius Brinzeu" County Hospital Timisoara at International Exhibition of Inventions and Innovation "Traian Vuia" Timisoara, Romania, **2015** for patent request nr. A00604/ 07.08.2014, by Segneanu A.E, Segneanu E., Gherman V.D, Scorei I.R., Grozescu I;
- **Special award and Cup** from Victor Babes University of Medicine and Pharmacy, Timisoara Romania at International Exhibition of Inventions and Innovation "Traian Vuia" Timisoara, Romania, **2015** for patent request nr. A/00786/2013, by: Segneanu A. E., Scorei R. I., Grozescu I., Stanescu C.D
- **First prize for the communication paper:** "Oxidative degradation of Antibiotics Ampicillin and Penicillin G type from water using the photo-fenton procedure modified by in-situ Fe²⁺ catalyst generation" /a 8th International Conference on Water Reclamation & Reuse, Barcelona, 26-29 September, **2011**;
- **Bronze medal** at International Salon of Inventions, Scientific Research and New Technologies "INVENTIKA", Romania, **2011**

Memberships/ Professional Affiliation

- American Chemical Society
- Society for Medicinal and Natural Products Research,
- Romanian Chemical Society
- Romanian Inventors Society (Banat Subsidiary)- **founder member**
- Applied Electrochemical Society –**founder member**
- Romanian Physics Society
- European Physics Society
- The General Association of Engineers from Romania (**AGIR**)
- Romanian Water Association (**ARA**)
- Banat Inventors Society – founder member
- Romanian Society for Nonconventional Technologies (**ARTN**)
- Editorial Board member - American Association for Science and Technology
- Review board member - Asian Journal of Engineering and Technology

▪ Organizing Committee member –**workshop co-chair** - International Workshop: *Design of chromophore systems with specific properties and applications in medicine as biomarkers and antitumoral agents*, April, 18-19, **2013**, Timisoara, Romania

▪ Organizing Committee member - The XIII Romanian Congress of Phlebology with International participation, October, 2 – 4, **2014**, Timisoara, Romania

▪ Organizing Committee member - International Exhibition of Inventions and Innovation "Traian Vuia" of Timisoara, Romania, June 11-13, **2015**, Timisoara, Romania

▪ Organizing Committee member - International Workshop: Innovating Techniques and Methodologies wastewater treatment, Romania, June 11-13, **2015**, Timisoara, Romania;

▪ Organizing Committee member - International Exhibition of Inventions and Innovation "Traian Vuia" of Timisoara, Romania, June 11-13, **2016**, Timisoara, Romania

▪ **Executor editor** - Gavin Journal of Food and Nutritional Science

▪ **Guest Editor** Plants Basel- Special Issue "Spectra Analysis and Plants Research 2.0"

Peer Review experience

- Analytical Letters
- International Journal of Agricultural Policy and Research

- BioResources Journal
- Issues in Biological Sciences and Pharmaceutical Research
- Gavin Journal of Food and Nutritional Science
- Current Environmental Engineering, Bentham Science Publishers
- Journal of Fungi, Basel
- Amino Acids, Spinger
- Molecules, Basel
- Applied Science, Basel
- Horticulturae, Basel
- Sustemability, Basel

Date:

April 2024

Dr. Adina-Elena **Segneanu**