



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Floare-Avram Cornelia Veronica
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Nationality Romanian
Date of birth December 24, 1977
Gender Female

Work experience

Dates	July 2016 – present
Occupation or position held	Researcher III
Main activities and responsibilities	Development and optimization of methods based on HPLC/MS for simultaneous separation and quantification of organic pollutants in water samples; HPLC monitoring of the degradation process of organic pollutants using various composite materials; Development and optimization of HPLC/MS method for detection and quantification of phenolic compounds from different matrices (oils, vegetables, etc.).
Dates	October 2009 – June 2016
Occupation or position held	Researcher
Main activities and responsibilities	Development of analytical methods based on gas chromatography-mass spectrometry (GC-MS) and high performance liquid chromatography -mass spectrometry (LC-MS) for the determination of organic compounds from different matrices (water, beverages, food, plants, cosmetics, etc); Determinations of organic pollutants from water by GC/MS and HPLC; Removal study of some organic pollutants from wastewater using different adsorbent materials; Study of photodegradation process of some volatile organic compounds (toluene and chlorobenzene) under UV light and TiO ₂ catalyst and determination of the removal ratio by GC/MS Responsible for the RENAR accredited method, accordingly the standard ISO 17025:2005: "Determination of ethanol and methanol in alcoholic beverages (spirits, wine, distilled from fermented fruit, beer)" (C.A. Nr. LI 1035/22.09.2014).
Name and address of employer	National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Street, 400293 Cluj-Napoca, Romania
Type of business or sector	Mass spectrometry, chromatography and applied physics
Dates	November 2007 – September 2009
Occupation or position held	Researcher
Name and address of employer	Babes Bolyai University - Raluca Ripan Institute of Research in Chemistry Cluj-Napoca (UBB-ICRR), 30 Fântânele Street, 400294 Cluj-Napoca, Romania

Dates	March 2005 – October 2007
Occupation or position held	Researcher
Name and address of employer	Raluca Ripan Institute of Research in Chemistry Cluj-Napoca, 30 Fântânele Street, 400294 Cluj-Napoca, Romania
Dates	April 2003 – March 2005
Occupation or position held	Research assistant
Name and address of employer	Raluca Ripan Institute of Research in Chemistry Cluj-Napoca, 30 Fântânele Street, 400294 Cluj-Napoca, Romania
Dates	December 2001 – April 2003
Occupation or position held	Research assistant
Name and address of employer	Raluca Ripan Institute of Chemistry Cluj-Napoca, 30 Fântânele Street, 400294 Cluj-Napoca, Romania
Main activities and responsibilities	<ul style="list-style-type: none"> • Documentation preparation for research projects. • Active contribution to the achievement of the objectives of the research themes in some projects, namely: <ul style="list-style-type: none"> - HPLC method for the determination of antibiotics (ampicillin, cefuroxime, penicillin, oxacillin, chloramphenicol etc.) in order to analyze their purity and the use for obtaining sensidisks for antibiograms; technological transfer to the beneficiary. - Development of chromatographic methods (high performance liquid chromatography, HPLC and thin layer chromatography, TLC) for separation and determination of organic compounds in alcoholic and nonalcoholic beverages (amino acids, carbohydrates, dyes). - HPLC monitoring of chemotherapeutic drugs used in cancer treatment. • Preparing specifications for the acquisition of R & D equipment within several research projects. • Microproduction activity of chromatographic materials: silica gel, chromatographic plates, kits for didactic use (thin-layer chromatography kits and column chromatography kits).
Type of business or sector	Analytical Chemistry an Environmet Laboratory, Chromatography Department

Education and training

Dates	October 2002 – September 2013
Title of qualification awarded	PhD in chemistry
Name and type of organisation providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering 11 Arany Janos Street, Cluj-Napoca
Proposed title of the thesis	Composition investigation and characterization of some Romanian wine varieties by chromatographic and spectral methods.
Dates	October 2001 – June 2002
Title of qualification awarded	Master's degree in Modern methods for quality control and environmental assessment
Name and type of organisation providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering 11 Arany Janos Street, Cluj-Napoca
Title of research work	Determination of organic acids in white wines by high performance liquid chromatography
Dates	October 1997 – June 2001
Title of qualification awarded	Bachelor degree in Physical Chemistry

Name and type of organisation providing education and training

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
11 Arany Janos Street, Cluj-Napoca

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

English, French

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
A2	Independent user	A2	Independent user	A1	Independent user	A1	Independent user	A1	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Good capacity of teamwork, good communication skills gained through my experience in research laboratories.

Organisational skills and competences

- I was part of the scientific secretariat of some scientific meetings:
 - international workshop: "First Neptune project meeting workshop", (May 20-22, 2007, Cluj-Napoca), organized within the European project FP6: "New sustainable concepts and processes for optimization and upgrading municipal wastewater and sludge treatment". Acronym: NEPTUNE.
 - workshop organized within the CEEX project (BIOTECH 141/15.09.2006): "Elaboration of some performant methods of determination of sweeteners and colorants from wine, prohibited by law, to ensure their chemical quality and safety"; Acronym : MET-PERF-CAL-VIN (2-3 september 2008, Cluj-Napoca).
- Treasurer at Romanian Chemical Society – Cluj branch (april 2005-november 2010).

Technical skills and competences

- Technical skills in the operation of high sensitivity analysis equipment: high performance liquid chromatograph coupled with a mass spectrometer (HPLC/MS) and gas chromatograph coupled with mass spectrometer (GC/MS).

Computer skills and competences

General: Microsoft Office package
Specific: ChemWindow, NIST Mass Spectral Library; Xcalibur (GC/MS, HPLC-MS data processing)

Other skills and competences

Specialization courses:
- July 26, 2010, ISO 17025:2008: General requirements for competence in laboratory, Cluj-Napoca (S.C. KECO S.R.L.).
- June 24-25 and July 27-28, 2010, Internal audit of quality management system in laboratory, Cluj-Napoca (S.C. NQA S.R.L.).

Additional information

Publications: 16 articles (12 are ISI articles and 4 are BDI articles)
67 papers presented at scientific meetings (54 international and 13 national)

Member of professional societies

- Romanian Chemical Society (SChR): 2002 – present
- Association „EURACHEM, Romania”: 2007 – present
- Central European Group of Separation Sciences (CEGSS): 2008 – present

Patent No. 122152/30.01.2009:

Procedure of obtaining of the sensidisks for antibiogram

V. Coman, Șt. Kreibik, V. Surducan, P. Bodoga and **V. Avram**

Proiecte naționale/internaționale

Member in the research team of more than 20 projects from which 2 international (FP6 and EEA grants România-Norvegia).

Annexes

Annex 1: Publications

29.05.2019

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LIST OF PUBLICATIONS

I. Papers published in ISI journals

1. M.-L. Soran, I. Lung, O. Opreș, **V. Floare-Avram** and C. Coman, Determination of Antibiotics in Surface Water by Solid-Phase Extraction and High-Performance Liquid Chromatography with Diode Array and Mass Spectrometry Detection, *Analytical Letters*, 50(7), 1209-1218. (DOI: 10.1080/00032719.2016.1209516).
2. M.-C. Roșu, C. Socaci, **V. Floare-Avram**, G. Borodi, F. Pogăcean, M. Coroș, L. Măgerușan, S. Pruneanu, Photocatalytic Performance of Graphene/TiO₂-Ag Composites on Amaranth Dye Degradation, *Materials Chemistry and Physics*, 179, 2016, 232-241. (DOI: 10.1016/j.matchemphys.2016.05.035).
3. O. Marincaș, **V. Floare-Avram**, I. Feher, D. Lazăr, C. Voica and I. Grosu, Inexpensive Adsorbents Derived from Coffee Grounds for the Treatment of Wastewater, *Analytical Letters*, 49(16), 2016, 2659-2670. (DOI: 10.1080/00032719.2015.1125913).
4. I. Feher, C. Voica, **V. Floare-Avram**, O. Marincaș and I. Oprean, Elemental Analysis of River Water from Transylvania, Romania by Inductively Coupled Plasma-Mass Spectrometry and Chemometrics, *Analytical Letters*, 49(16), 2016, 2671-2685. (DOI: 10.1080/00032719.2015.1113417).
5. A. Hosu, **V. Floare-Avram**, D. A. Magdas, I. Feher, M. Inceu and C. Cimpoiu, The Influence of the Variety, Vineyard, and Vintage on the Romanian White Wines Quality, *Journal of Analytical Methods in Chemistry*, ID 4172187, 2016, 10 pages. (DOI: 10.1155/2016/4172187).
6. L. Magerusan, C. Socaci, F. Pogacean, M.-C. Rosu, A. R. Biris, M. Coros, A. Turza, **V. Floare-Avram**, G. Katona and S. Pruneanu, Enhancement of Peroxidase-Like Activity of N-doped Graphene Assembled with Iron-Tetrapyrrolylporphyrin, *RSC Advances*, 6, 2016, 79497-79506. (DOI: 10.1039/C6RA15414J).
7. **V. Avram**, C. G. Floare, A. Hosu, C. Cimpoiu, C. Măruțoiu and Z. Moldovan, Characterization of Romanian Wines by Gas Chromatography - Mass Spectrometry, *Analytical Letters*, 48(7), 2015, 1099-1116. (DOI: 10.1080/00032719.2014.974054).
8. **V. Avram**, C. Voica, A. Hosu, C. Cimpoiu and C. Măruțoiu, ICP-MS Characterization of Some Roumanian White Wines by Their Mineral Content, *Revue Roumaine de Chimie*, 59(11-12), 2014, 1011-1021.
9. **V. Avram**, D. A. Măgdaș, C. Voica, G. Cristea, C. Cimpoiu, A. Hosu and C. Măruțoiu, Isotopic Oxygen Ratios and Trace Metals Determination in Some Romanian Commercial Wines, *Analytical Letters*, 47(4), 2014, 641-653. (DOI: 10.1080/00032719.2013.845896).
10. G. Schmutzer, **V. Avram**, V. Coman, L. David and Z. Moldovan, Determination of Phenolic Compounds from Wine Samples by GC/MS System, *Revista de Chimie*, 63(9), 2012, 855-858.
11. G. Schmutzer, I. Feher, O. Marincaș, **V. Avram**, M. H. Kovacs, L. David, V. Danciu and Z. Moldovan, Photodegradation Study of Some Indoor Air Pollutants in the Presence of UV-Vis Irradiation and TiO₂ Photocatalyst, *Studia Universitatis Babeș-Bolyai, Chemia*, LVII, 3, 2012, 15-21.
12. Z. Moldovan, **V. Avram**, O. Mărincaș, P. Petrov and T. Ternes, The Determination of the Linear Alkylbenzene Sulfonate Isomers in Water Samples by Gas-Chromatography/Mass Spectrometry, *Journal of Chromatography A*, 1218(2), 2011, 343-349. (DOI: 10.1016/j.chroma.2010.11.043).

II. Papers published in BDI journals

1. F. Pogăcean, A.R. Biriş, C. Socaci, **V. Floare-Avram**, M.C. Rosu, M. Coros and S. Pruneanu, Electrochemical Degradation of Carbamazepine using Electrode Modified with Graphene-AuAg Composite, *American Institute of Physics, Conference Proceedings* (Processes in Isotopes and Molecules, PIM 2015), 1700, **2015**, 060003. (DOI: 10.1063/1.4938453).
2. G. Schmutzer, **V. Avram**, F. Covaciu, I. Feher, A. Magdas, L. David and Z. Moldovan, Study of flavour compounds from orange juices by HS-SPME and GC-MS, *American Institute of Physics, Conference Proceedings* (Processes in Isotopes and Molecules, PIM 2013), 1565, **2013**, 79-84 (DOI: 10.1063/1.4833701).
3. G. Schmutzer, **V. Avram**, I. Feher, L. David and Z. Moldovan, Determination of Some Volatile Compounds in Alcoholic Beverage by Headspace-Solid Phase Microextraction Gas Chromatography-Mass Spectrometry, *American Institute of Physics, Conference Proceedings* (Processes in Isotopes and Molecules, PIM 2011), 1425, **2012**, 43-46. (DOI: 10.1063/1.3681962).
4. O. Mărincaş, P. Petrov, T. Ternes, **V. Avram** and Z. Moldovan, The Improvement of Removal Effects on Organic Pollutants in Wastewater Treatment Plants (WWTP), *Journal of Physics: Conference Series* (Processes in Isotopes and Molecules) 182, **2009**, 012040. (DOI: 10.1088/1742-6596/182/1/012040).

III. Papers published in other journals

1. R. Grecu, V. Coman, **V. Avram**, M. Băciuţ and G. Băciuţ, Bone Matrices of Different Origins Studied by FTIR Spectroscopy, *Acta Electrotehnica*, 48(4), **2007**, 429-432, (ISSN 1841-3323).
2. M. Filip, V. Coman, **V. Avram** and I. Coman, HPLC Monitoring of Flutamide Drug Used in the Prostate Cancer Treatment, *Acta Electrotehnica*, 48(4), **2007**, 397-400, (ISSN 1841-3323).
3. R. Grecu, V. Coman, **V. Avram** and H. Balázs, Évaluation de la Qualité du Vin Blanc Par des Méthodes Analytiques Instrumentales, *Actes du troisième colloque franco-roumain de chimie appliquée COFrRoCA-2004*, Édition Alma Mater Bacău (ISBN 973-8392-36-5) și Tehnica Info Chişinău (ISBN 9975-63-183-5), **2004**, p. 173-176.
4. V. Coman, R. Grecu, L. Soran, A. Şteţco and **V. Avram**, Contrôle d'Identité et de Pureté de Quelques Antibiotiques Utilisés à Produire des Sensidisques pour l'Antibiogramme, *Actes du troisième colloque franco-roumain de chimie appliquée COFrRoCA-2004*, Édition Alma Mater Bacău (ISBN 973-8392-36-5) și Tehnica Info Chişinău (ISBN 9975-63-183-5), **2004**, p. 50-53.
5. V. Coman, **V. Avram**, L. Soran, R. Grecu, Z. Moldovan and H. Farkas, HPLC Determination of Some Antibiotics, *Studia Universitatis Babeş-Bolyai, Physica*, Special Issue 2 (The 3rd Conference with International Participation on Isotopic and Molecular Processes) **2003**, 427-429.

29.05.2019

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