Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Constantin Apetrei
Address(es)	
Telephone(s)	
Fax(es)	
E-mail	
Nationality	
Date of birth	
Gender	
Driver licence	

Occupational field

development of novel sensors and biosensors, characterization of sensors and biosensors, electrochemistry, electronic sensory systems: e-tongue, e-nose, e-eye; chemometry, food chemistry, food analysis, synthesis and characterization of organic compounds, UV-VIS, IR spectroscopy, HPLC, TLC, GC-MS, deposition of sensitive materials onto substrates using different methods: Langmuir-Blodgett, Layer-by-Layer, electrodeposition, high vacuum sublimation, spin-coating etc.

Work experience

(24 years in total)

Dates	2015-present
Occupation or position held	Full Professor
Main activities and responsibilities	teaching activities, research activities
Name and address of employer	Faculty of Sciences and Environment, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Type of business or sector	Academic
Dates	2013-2015
Occupation or position held	Associate Professor
Main activities and responsibilities	teaching activities, research activities
Name and address of employer	Faculty of Sciences and Environment, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Type of business or sector	Academic
Dates	2008-2013
Occupation or position held	Senior Lecturer
Main activities and responsibilities	teaching activities, research activities
Name and address of employer	Faculty of Sciences, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Type of business or sector	Academic
Dates	2006-2008
Occupation or position held	Assistant Professor
Main activities and responsibilities	teaching activities, research activities

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Name and address of employer	Faculty of Sciences, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Type of business or sector	Academic
Dates	2002-2006
Occupation or position held	Researcher
Main activities and responsibilities	research activities
Name and address of employer	Faculty of Sciences, Valladolid University, Spain, www.uva.es
Type of business or sector	Academic
Dates	2001-2002
Occupation or position held	Assistant Professor
Main activities and responsibilities	teaching activities, research activities
Name and address of employer	Faculty of Sciences, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Type of business or sector	Academic
Dates	1999-2001
Occupation or position held	Associated Assistant Professor
Main activities and responsibilities	teaching activities, research activities
Name and address of employer	Faculty of Sciences, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Type of business or sector	Academic

Education and training

Dates	October 2015
Title of qualification awarded	Habilitation thesis in Chemistry
Principal subjects/occupational skills covered	Development of novel sensors and biosensors with applications in food analysis/ PhD supervisor
Name and type of organisation providing education and training	Sciences and Environment, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Dates	2011 (3.01.2011-31.03.2011)
Title of qualification awarded	Postdoctoral studies in biotechnologies applied in food industry
Principal subjects/occupational skills covered	Advanced research management, Entrepreneurial Culture in Biotechnology, Computer techniques Applied in Biotechnology, Bioethical Issues, Patents and Intellectual Property Results, Innovative Biotechnologies: Techniques and Methodologies / Scientific researcher
Name and type of organisation providing education and training	Faculty of Food Sciences and Engineering, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sia.ugal.ro
Dates	1999-2007
Title of qualification awarded	PhD in Chemistry
Principal subjects/occupational skills covered	Sensors, Biosensors, Food Chemistry, Analytical Chemistry, Electrochemistry / Scientific researcher
Name and type of organisation providing education and training	Faculty of Sciences, Dunarea de Jos University of Galati, Galati, Romania, 111 Domneasca Street, www.sciences.ugal.ro
Dates	1997-1999
Title of qualification awarded	Master in Physical Organic Chemistry

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Principal subjects/occupational skills covered	Advanced Organic Chemistry, Organic Electrochemistry, Advanced Quantum Chemistry etc. / chemistry teacher, scientific researcher.
Name and type of organisation providing education and training	Faculty of Chemistry, Alexandru Ioan Cuza University, Iasi, Romania, Bd. Copou, www.uaic.ro
Dates	1993-1997
Title of qualification awarded	Licence in Chemistry and Physics
Principal subjects/occupational skills covered	Inorganic Chemistry, Physical Chemistry, Organic Chemistry etc., Physics: mechanics, electricity, atomic etc. / teacher of chemistry and physics, researcher.
Name and type of organisation providing education and training	Faculty of Chemistry, Alexandru Ioan Cuza University, Iasi, Romania, Bd. Copou, www.uaic.ro

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C2		C2		C2		C2		C2	
Spanish	C2		C2		C2		C2		C2	

(*) Common European Framework of Reference for Languages

Social skills and competences	• Experienced in communicating with students, researchers and partners • Hard working, organized person • Good abilities for synthetic and global views over concrete situations • Good ability to establish and maintain good working relations with people of different national and cultural backgrounds • Good ability to adapt to multicultural environments, gained through my work experience abroad •Good ability to live in worldwide locations
Organisational skills and competences	• Leadership • Good experience in project management and team co-ordination • Member of the organizing committee and secretary of conferences: I Reunion Científica sobre aromas (2002), 9th European Conference on Organised Films (ECOF 2004), 9th Symposium Chemistry of Colloids and Surfaces (2008), The 10th International Conference on Colloids and Surfaces Chemistry (2011), International Conference of Physical Chemistry – ROMPHYSCHEM 16 (2016), Scientific Conference of Doctoral Schools SCDS-UDJG 2018-2024
Technical skills and competences	Food analysis, Food security and safety, Food chemistry and analysis, Food Processing and Engineering, Analytical and Physical Chemistry, Waste water treatment, Ambient air quality, Statistical and Pattern Recognition methods, Thin films, Sensors and biosensors, Biotechnology.
Computer skills and competences	Microsoft Office, XLStat, CorelDraw, Matlab, The Unscrambler, Statistica etc.

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Other skills and competences

Reviewer of scientific journals:

1. African Journal of Agricultural Research
2. Ain Shams Engineering Journal
3. Annals of University of Dunarea de Jos University of Galati, Phys, Mat, Theor Mec.
4. Analyst
5. Analytical Methods
6. Antioxidants
7. Arabian Journal of Chemistry
8. Artificial Cells, Nanomedicine and Biotechnology
9. Beverages
10. Bioelectrochemistry
11. Biosensors
12. C (ISSN 2311-5629)
13. Carbon
14. Chemistry today (Chimica oggi)
15. Chemosphere
16. Chemosensors
17. Combinatorial Chemistry & High Throughput Screening
18. Computers and Electronics in Agriculture
19. Current Analytical Chemistry
20. Current Drug Delivery Journal
21. Current Medicinal Chemistry
22. Dalton Transactions
23. Electrochimica Acta
24. Engineering in Agriculture, Environment and Food
25. Food Analytical Methods
26. Food Chemistry
27. Food Control
28. Food Research International
29. Foods
30. Food Science & Nutrition
31. Frontiers in Bioengineering and Biotechnology - section Bionics and Biomimetics
32. Frontiers in Chemistry, section Analytical Chemistry
33. IEEE Sensors Journal
34. Innovative Romanian Food Biotechnology
35. International Journal of Environmental Analytical Chemistry
36. International Journal of Food Properties
37. International Journal of Nanomedicine
38. International Journal of Food Engineering
39. Journal of Agricultural and Food Chemistry
40. Journal of Applied Research on Medicinal and Aromatic Plants
41. Journal of Chemometrics
42. Journal of Electroanalytical Chemistry
43. Journal of Food Quality
44. Journal of Molecular Catalysis B: Enzymatic
45. Journal of Sensors Technology
46. Journal of Sensors
47. Journal of the American Oil Chemists' Society
48. Langmuir
49. LWT - Food Science and Technology
50. Materials Science and Engineering B
51. Materials Science and Engineering C
52. Measurement
53. Microbial Pathogenesis
54. Molecules
55. Nanomaterials
56. New Journal of Chemistry
57. Polymers
58. Postharvest Biology and Technology
59. Quality Assurance and Safety of Crops & Foods
60. RSC Advances
61. Scientific Study&Research - Chemistry&Chemical Engineering, Biotechnology, Food Industry
62. Synthetic Metals
63. Sensors and Actuators A, Physical
64. Sensors and Actuators B, Chemical

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65. Sensors
66. Sensors-Interscience Journal
67. Talanta
68. Trends in Food Science & Technology
69. Fishes
70. Processes
71. Toxics

Expert evaluator of:
- Executive Agency for Higher Education, Research, Development and Innovation Funding - UEFISCDI (Romania)
- National Authority for the Scientific Research (Autoritatea Națională pentru Cercetare Științifică – ANCS) (Romania)
- Ministry of Education Romania: ROSE programme
- ARACIS (The Romanian Agency for Quality Assurance in Higher Education) since 2013
- NEWFELPRO (Croatia)
- FP7-H2020 (expert number: EX2006C106970) from 2007
- MARTEC
- Centre for Quality Assessment in Higher Education, Lithuania
- INCOMERA
- ERA.Net RUS Plus
- EVAL-INCO
- COST
- Operational Programme Research and Innovation, Slovakia
- Managing Authority of the OP R & DI, Czech Republic
- National Centre for Research and Development, Poland
- Agencia Nacional de Evaluación y Prospectiva, Spain
- AAL Programme
- EURAMET
- Fundación Bancaria Caja de Ahorros y Pensiones de Barcelona, "la Caixa"
- The Research Agency, Slovakia
- Technology Agency of the Czech Republic
- CONCERT-Japan
- ResInfra@DR Registry of Research Infrastructure Reviewers in the Danube region countries
- SEMAPHORE (F.R.S.-FNRS)
- M-ERA.NET
- PRIMA
- Higher Education Authority Ireland
- REPRISE (https://reprise.cineca.it/en)
- Agència de Gestió d'Ajuts Universitaris i de Recerca
- Technical Centre for Agricultural and Rural Co-operation
- The Bulgarian National Science Fund (BNSF)
- ESF Science Connect
- EUREKA
-StandICT.eu
-FWO
- Eurostars
- Technology agency of the Czech Republic ISTA

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Editorial Board Member

- Food Research International, http://www.journals.elsevier.com/food-research-international/editorial-board/ (2011-2018)
- Journal of Sensors, https://onlinelibrary.wiley.com/page/journal/9161/homepage/editorial-board
- Chemosensors, http://www.mdpi.com/journal/chemosensors/editors
- Polymers, Member of reviewer board, https://www.mdpi.com/journal/polymers/submission_reviewers
- Guest Editor of Journal of Sensors, for the special issue "Sensors for Food and Beverage Analysis: E-nose and E-tongue Technology", (papers were included in regular journal)
- Guest Editor of Journal of Sensors, for the special issue Sensors and Systems for Environmental Monitoring and Control, https://www.hindawi.com/journals/js/si/308345/
- Review Editor for Bionics and Biomimetics; Frontiers in Bioengineering and Biotechnology, http://loop.frontiersin.org/people/334762/overview
- Guest Editor of "Electrochemical Sensors and Biosensors in Medical and Pharmaceutical Bioanalysis", https://www.frontiersin.org/research-topics/10408/electrochemical-sensors-and-biosensors-in-medical-and-pharmaceutical-bioanalysis
- Editorial Board Member Electrochem: https://www.mdpi.com/journal/electrochem/editors
- Associate Editor of Bionics and Biomimetics (specialty section of Frontiers in Bioengineering and Biotechnology and Frontiers in Robotics and AI), https://www.frontiersin.org/journals/bioengineering-and-biotechnology#editorial-board
- Academic Editor, Journal of Food Quality, https://www.hindawi.com/journals/jfq/editors/

Member of jury of UGAL Invent 2023 http://www.invent.ugal.ro/ROJury2023.html

Coordination of PhD theses

1. Mereșescu (Bounegru) Alexandra Virginia – Development of new voltamperometric sensors and biosensors for the determination of hydroxycinnamic acids, 2021.
2. Gunache (Roșca) Ramona Oana - Research on the development of new voltametric sensors for the analysis of pharmacological active compounds, 2021.
3. Dinu Ancuța. Application of chemically and biochemically modified sensors in the analysis of amino acids in pharmaceutical products, 2022.
4. Bulgaru (Munteanu) Irina Georgiana. Development of new electroanalytical methods for the determination of bioactive compounds with antioxidant properties, 2023.

Member in PhD committees

1. Monica Gay Martin, Nuevos avances en sensores voltamétricos nanoestructurados y miniaturizados. Aplicación en una lengua electrónica en el sector alimentario, Universidad de Valladolid, 2012. (member, secretary of commission)
2. Cristina Medina Plaza, Sensor arrays for enology applications: using nanoscience for grape analysis, Universidad de Valladolid, 2016. (external referee)
3. Rodrigo Melgosa Gómez, Fish oil valorization using supercritical carbon dioxide technologies, Universidad de Burgos, 2018 (external referee)
4. Mercedes Santiago Calvo, SYNTHESIS, FOAMING KINETICS AND PHYSICAL PROPERTIES OF CELLULAR NANOCOMPOSITES BASED ON RIGID POLYURETHANE, Universidad de Valladolid, 2019 (external referee)
5. Eduardo López González. Analysis of the composition-structure-properties relationship of open-cell polyolefin-based foams with tailored levels of gas-phase tortuosity, Universidad de Valladolid, 2019 (external referee)
6. Alba Ester Illera Gigante. STUDY OF NON-THERMAL TECHNOLOGIES TO PRESERVE THE QUALITY OF FRESH FOODS, Universidad de Burgos, 2019 (external referee)
7. Celia Garcia Hernandez. SENSORES Y BIOSENSORES NANOESTRUCTURADOS ELECTROQUÍMICOS PARA EL ANÁLISIS DE ALIMENTOS. Universidad de Valladolid, 2019 (member of commission)
8. Coral Salvo Comino. Electrochemical sensors and biosensors: new horizons and challenges in their integration in multisensor systems for food industry applications. Universidad de Valladolid, 2022 (external referee)
9. Mihaela Cudălbeanu. Chemical characterization and study of the biological activity of some compounds present in the species Nymphaea alba from the Danube Delta Biosphere Reserve. Dunărea de Jos University of Galați, 2022 (member of commission)
10. Anna Cazanevscaia (Busuioc). Study of chemical compounds from plant species of therapeutic interest. Dunărea de Jos University of Galați, 2023 (member of commission)

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Additional information

Reference contacts

Maria Luz Rodriguez Mendez, University of Valladolid, Spain, mluz@eii.uva.es
Paula Castilho, Madeira University, Portugal, castilho@uma.pt
Robert Sandulescu, Iuliu Hatieganu University, Cluj-Napoca, Romania, rsandulescu@umfcluj.ro

Member of scientific organizations

Member of "EUROPEAN CENTER OF EXCELLENCE FOR THE ENVIRONMENT" from Galaţi University
Member of Gospel (General Olfaction and Sensing Projects on a European Level) (2004-2006)
Member of "CENTRU DE NANOSTRUCTURI ŞI MATERIALE FUNCTIONALE" from Galaţi University (2006-2008)
Member of Romanian Society of Chemistry

Awards

Awards of scientific results - UEFISCDI

1. Rodríguez-Méndez, M.L., Apetrei, C., de Saja, J.A., 2008, Evaluation of the polyphenolic content of extra virgin olive oils using an array of voltammetric sensors, Electrochimica Acta 53 (20), 5867-5872.
2. Rodríguez-Méndez, M.L., Apetrei, C., Nieto, M., Hernandez, V., Navarrete, J.T.L., Effenberger, F., de Saja, J.A., 2009, Sensing properties of organised films based on a bithiophene derivative, Sensors and Actuators, B: Chemical 141 (2), pp. 625-633.
3. Rodríguez-Méndez, M.L., Gay, M., Apetrei, C., De Saja, J.A., 2009, Biogenic amines and fish freshness assessment using a multisensor system based on voltammetric electrodes. Comparison between CPE and screen-printed electrodes, Electrochimica Acta 54 (27), pp. 7033-7041.
4. Apetrei, C., Apetrei, I.M., Villanueva, S., de Saja, J.A., Gutierrez-Rosales, F., Rodriguez-Mendez, M.L., 2010, Combination of an e-nose, an e-tongue and an e-eye for the characterisation of olive oils with different degree of bitterness, Analytica Chimica Acta 663, pp. 91-97.
5. Gay, M., Apetrei, C., Nevares, I., del Alamo, M., Zurro, J., Prieto, N., De Saja, J. A., Rodríguez-Méndez, M.L., 2010, Application of an electronic tongue to study the effect of the use of pieces of wood and micro-oxygenation in the aging of red wine, Electrochimica Acta 55, pp. 6782–6788.
6. Apetrei, C., Alessio, P., Constantino, C.J.L., de Saja, J.A., Rodriguez-Mendez, M.L., Pavinatto, F.J., Fernandes, E.G. , Zucolotto, V., Oliveira, O.N., 2011, Biomimetic biosensor based on lipidic layers containing tyrosinase and lutetium bisphthalocyanine for the detection of antioxidants, Biosensors and Bioelectronics 26, pp. 2513-2519.
7. Pavinatto, F.J., Fernandes E.G.R., Alessio P., Constantino C.J.L., de Saja J.A., Zucolotto V., Apetrei C., Oliveira O.N. Jr., M.L. Rodriguez-Mendez, 2011, Optimized architecture for Tyrosinase-containing Langmuir-Blodgett films to detect pyrogallol, Journal of Materials Chemistry, 21: 4995-5003.
8. Apetrei, C., Apetrei, I.M., De Saja, J.A., Rodriguez-Mendez M.L., 2011, Carbon paste electrodes made from different carbonaceous materials: application in the study of antioxidants, Sensors, 11, pp. 328-1344.
9. Apetrei, C., Rodríguez-Méndez, M.L., de Saja, J.A., 2011, Amperometric tyrosinase based biosensor using an electropolymerized phosphate-doped polypyrrole film as an immobilization support. Application for detection of phenolic compounds, Electrochimica Acta, 56, pp. 8919-8925.
10. Ghasemi-Varnamkhasti, M., Rodríguez-Méndez M.L., Mohtasebi, S.S., Apetrei, C., Lozano, J., Ahmadi, H., Razavi, S.H., de Saja, J.A., 2012, Monitoring the aging of beers using a bioelectronic tongue, Food Control, 25, pp. 216-224.
11. Ghasemi-Varnamkhasti, M., Mohtasebi, S.S., Rodriguez-Mendez, M.L., Lozano, J., Razavi, S.H., Ahmadi, H., Apetrei, C., 2012,Classification of non alcoholic beer based on aftertaste sensory evaluation by chemometric tools, Expert Systems With Application, 39, pp. 4315-4327.
12. Apetrei, I.M., Rodríguez-Méndez M.L., Apetrei, C., Nevares, I., del Alamo, M., de Saja, J.A., 2012,Monitoring of evolution during red wine aging in oak barrels and alternative method by means of an electronic panel test, Food Research International, 45 (1) , pp. 244-249.
13. F. Matemadombo, C. Apetrei, T. Nyokong, M.L. Rodríguez-Méndez, J.A. de Saja, 2012, Comparison of carbon screen printed and disk electrodes in the detection of antioxidants using CoPc derivatives, Sensors and Actuators, B: Chemical, 166-167, pp. 457-466.
14. Apetrei, C., 2012, Novel method based on polypyrrole-modified sensors and emulsions for the evaluation of bitterness in extra virgin olive oils, Food Research International, 48, pp. 673-680.
15. Apetrei, I.M., Rodriguez-Mendez, M.L., Apetrei, C., De Saja, J.A., 2013, Enzyme sensor based on carbon nanotubes/cobalt(II) phthalocyanine and tyrosinase used in pharmaceutical analysis, Sensors and Actuators, B: Chemical, 177 , pp. 138-144
16. Apetrei, I.M., Apetrei, C., 2013, Amperometric biosensor based on polypyrrole and tyrosinase for the detection of tyramine in food samples, Sensors and Actuators B: Chemical, 178, pp. 40-46

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17. N. Prieto, P. Oliveri, R. Leardi, M. Gay, C. Apetrei, M.L. Rodriguez-Méndez, J.A. de Saja, 2013, Application of a GA-PLS strategy for variable reduction of electronic tongue signals, Sensors and Actuators B 183, 52- 57
18. I. M. Apetrei, M. L. Rodriguez-Mendez, C. Apetrei, J. A. de Saja, Fish Freshness Monitoring Using an E-tongue Based on Polypyrrole Modified Screen-Printed Electrodes, IEEE Sensors Journal 13 (2013) 2548 – 2554

19. C. Apetrei, C. Medina, J.A. de Saja, M.L. Rodriguez-Mendez, Electrochemical characterization of dilithium phthalocyanine carbonaceous electrodes, Journal of Porphyrins and Phthalocyanines 17 (2013) 522-528; DOI: 10.1142/S1088424613500430
20. Irina Mirela Apetrei, Constantin Apetrei, Voltammetric e-tongue for the quantification of total polyphenol content in olive oils, Food Research International 54 (2013) 2075-2082;

21. I. M. Apetrei, C. Apetrei, Biosensor based on tyrosinase immobilized in single-walled carbon nanotubes modified glassy carbon electrode for epinephrine detection, International Journal of Nanomedicine 8 (2013) 4391-4398
22. X. Cetó, C. Apetrei, M. del Valle, M. L. Rodríguez-Méndez. Evaluation of red wines antioxidant capacity by means of a voltammetric e-tongue with an optimized sensor array. Electrochimica Acta, 120 (2014) 180-186
23. M. L. Rodriguez-Mendez, C. Apetrei, M. Gay, C. Medina-Plaza, J. A. de Saja, S. Vidal, O. Aagaard, M. Ugliano, J. Wirth, V. Cheynier. Evaluation of oxygen exposure levels and polyphenolic content of red wines using an electronic panel formed by an electronic nose and an electronic tongue. Food Chemistry, 155 (2014) 91-97.
24. I. M. Apetrei, C. Apetrei, Study of Different Carbonaceous Materials as Modifiers of Screen-Printed Electrodes for Detection of Catecholamines, IEEE Sensors Journal 15 (2015) 3094 - 3101,
25. I.M. Apetrei, C. Apetrei, Detection of virgin olive oil adulteration using a voltammetric e-tongue, Computers and Electronics in Agriculture 108 (2014) 148–154
26. I.M. Apetrei, C. Apetrei, The biocomposite screen-printed biosensor based on immobilization of tyrosinase onto the carboxyl functionalised carbon nanotube for assaying tyramine in fish products, Journal of Food Engineering 149 (2015) 1-8

27. I. M. Apetrei, C. Apetrei, Biosensing Application of Hybrid Thin Film Layers Based Biosensors, IEEE Sensors Journal 15 (2015) 6926 - 6932
28. Irina Mirela Apetrei, Constantin Apetrei, Amperometric Biosensor Based on Diamine Oxidase/Platinum Nanoparticles/Graphene/Chitosan Modified Screen-Printed Carbon Electrode for Histamine Detection, Sensors 2016, 16(4), 422; doi:10.3390/s16040422

29. I. M. Apetrei, C. Apetrei, Voltammetric determination of melatonin at a graphene based sensor from pharmaceutical products, International Journal of Nanomedicine 2016: 11, 1859-1866. http://dx.doi.org/10.2147/IJN.S104941

30. I.M. Apetrei, C. Apetrei, Application of voltammetric e-tongue for the detection of ammonia and putrescine in beef products, Sensors and Actuators B: Chemical, 234 (2016) 371–379. http://dx.doi.org/10.1016/j.snb.2016.05.005
31. I. M. Apetrei, C. Apetrei, Highly sensitive voltamperometric determination of pyritinol using carbon nanofiber/gold nanoparticle composite screen-printed carbon electrode. International Journal of Nanomedicine 2017: 12, 5177-5188.
32. I. M. Apetrei, C. Apetrei, A modified nanostructured graphene-gold nanoparticle carbon screen-printed electrode for the sensitive voltammetric detection of rutin. Measurement 2018: 114, 37–43.
33. Mahdi Ghasemi-Varnamkhasti, Constantin Apetrei, Jesus Lozano, Amarachukwu Anyogu, Potential use of electronic noses, electronic tongues and biosensors as multisensor systems for spoilage examination in foods, Trends in Food Science & Technology, 80 (2018) 71-92.
34. Irina Mirela Apetrei, Constantin Apetrei. Development of a Novel Biosensor Based on Tyrosinase/Platinum Nanoparticles/Chitosan/Graphene Nanostructured Layer with Applicability in Bioanalysis, Materials 2019, 12(7), 1009.
35. C. Apetrei, C. Iticescu, L.P. Georgescu. Multisensory System Used for the Analysis of the Water in the Lower Area of River Danube, Nanomaterials. 2019; 9(6): 891.

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36. Aurel Tabacaru, Valentina Colombo, Constantin Apetrei. Development of Sensor based on Copper(II) Thiocyanate Pyridine Polymeric Complex for Detection of Catechol. IEEE Sensors Journal 2019, 19, (22) 10198-10206. *Premierea rezultatelor cercetării Articole- UEFISCDI*

37. Elisabeta-Irina Geana, Corina Teodora Ciucure, Constantin Apetrei, Victoria Artem. Application of Spectroscopic UV-Vis and FT-IR Screening Techniques Coupled with Multivariate Statistical Analysis for Red Wine Authentication: Varietal and Vintage Year Discrimination. Molecules 2019, 24, 4166; *Premierea rezultatelor cercetării Articole- UEFISCDI*

38. Oana-Maria Dragostin, Rodica Tatia, Sangram Keshari Samal, Anca Oancea, Alexandra Simona Zamfir, Ionut, Dragostin, Elena-Lacramioara Lisa, Constantin Apetrei, Carmen Lacramioara Zamfir. Designing of Chitosan Derivatives Nanoparticles with Antiangiogenic Effect for Cancer Therapy. Nanomaterials 2020, 10, 698; *Premierea rezultatelor cercetării Articole- UEFISCDI*

39. Dinu, A.; Apetrei, C. A Review on Electrochemical Sensors and Biosensors Used in Phenylalanine Electroanalysis. Sensors 2020, 20, 2496. *Premierea rezultatelor cercetării Articole- UEFISCDI*

40. Bounegru, A. V.; Apetrei, C. Voltammetric Sensors Based on Nanomaterials for Detection of Caffeic Acid in Food Supplements. Chemosensors 2020, 8 (2), 41. Premierea rezultatelor cercetării Articole- UEFISCDI

41. Bounegru, A. V.; Apetrei, C. Carbonaceous Nanomaterials Employed in the Development of Electrochemical Sensors Based on Screen-Printing Technique—A Review. Catalysts 2020, 10 (6), 680. Premierea rezultatelor cercetării Articole- UEFISCDI

42. Geană E-I, Ciucure CT, Apetrei C. Electrochemical Sensors Coupled with Multivariate Statistical Analysis as Screening Tools for Wine Authentication Issues: A Review. Chemosensors. 2020; 8(3):59. Premierea rezultatelor cercetării Articole- UEFISCDI

43. Geană, E.-I, Artem, V., Apetrei, C. Discrimination and classification of wines based on polypyrrole modified screen-printed carbon electrodes coupled with multivariate data analysis. Journal of Food Composition and Analysis, 96, 2021, 103704, https://doi.org/10.1016/j.jfca.2020.103704 *Premierea rezultatelor cercetării Articole- UEFISCDI*

44. Dăscălescu, D.; Apetrei, C. Nanomaterials Based Electrochemical Sensors for Serotonin Detection: A Review. Chemosensors 2021, 9, 14. https://doi.org/10.3390/chemosensors9010014 *Premierea rezultatelor cercetării Articole- UEFISCDI*

45. Munteanu, I.G.; Apetrei, C. Analytical Methods Used in Determining Antioxidant Activity: A Review. Int. J. Mol. Sci. 2021, 22, 3380. https://doi.org/10.3390/ijms22073380 *Premierea rezultatelor cercetării Articole- UEFISCDI*

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1. C.V. Popa (Ungureanu), I.M. Apetrei, D. Tutunaru, C. Apetrei, *Biosensing properties of novel biosensors towards biogenic amines*, 1st International Conference on Analytical Chemistry RO - ICAC'2012, 18-21 Septembrie, 2012, Târgoviște, Romania, poster, page. 193, Best Poster Award.
2. Claudia Popa (Ungureanu), Constantin Apetrei, *Biosensors based on carbonaceous screen-printed electrodes and diamine oxidase*, Conferința Științifică a Școlilor Doctorale din Universitatea „Dunărea de Jos" din Galați (CSSD-UDJG), 16-17 Mai, 2013, Poster, 2nd Award.
3. C. Apetrei. *Biosensor based on nanostructured sensitive material for the detection of epinephrine and norepinephrine*, New Trends on Sensing- Monitoring - Telediagnosis for Life Sciences, Brasov, Romania - July 24-26, 2014, Young Scientist Paper Award
4. Sensors Best Paper Award 2015, 5th Prize for the paper:
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5. Brinca Alina, Maghinici Ana-Raluca, Patruta Cristina-Andreea, Constantin Apetrei, *Determinarea falsificarii uleiului de ricin*. Sesiunea Națională de Comunicări Ştiinţifice Studenţeşti „INGINERIA – PROFESIA VIITORULUI", ediția I SNCSS BACĂU- 2017, Ed. "ALMA MATER" BACĂU, 2017, Poster, 2nd Award.
6. Brînca Alina, Maghinici Ana-Raluca, Pătruţă Cristina-Andreea Constantin Apetrei. Determinarea compuşilor benefici din ape vitaminizate comerciale. Simpozionul științific studențesc cu participare internațională "Chimia în slujba umanității", Galati, 18 May 2018, 2nd Award.
7. Dinu Ancuta, Constantin Apetrei. *Dezvoltarea unor senzori pe bază de polianilină pentru determinarea acidului ascorbic din produse farmaceutice*. Simpozionul științific studențesc cu participare internațională "Chimia în slujba umanității", Galati, 18 May 2018, 1st Award.
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9. Ancuţa Dinu, Constantin Apetrei. Voltammetric Study of Phenylalanine by Means of Sensors Based on Polypyrrole Doped with Different Anions. Scientific Conference of Doctoral Schools SCDS-UDJG 2018 The Sixth Edition GALAŢI, 7th-8th of June 2018, 2nd Award.
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11. Alexandra Virginia Mereşescu (Bounegru), Constantin Apetrei. Development of Screen-Printed Sensors Based on Carbonaceous Nanomaterials, Poster. Book of abstracts, http://www.cssd-udjg.ugal.ro/index.php/abstracts-2019, page 252. SCDS-UDJG 2019, The Seventh Edition, Galaţi, 13th-14th of June 2019, 1st Award.
12. Irina Elisabeta Geană, Constantin Apetrei. Voltammetric Sensors in the Analysis of Wine Redox-Active Compounds. Oral presentation. Book of abstracts, http://www.cssd-udjg.ugal.ro/index.php/abstracts-2019, page 107. SCDS-UDJG 2019, The Seventh Edition, Galaţi, 13th-14th of June 2019, 1st Award.
13. Mereşescu (Bounegru) Alexandra Virginia, Apetrei Constantin. Realizarea unor noi senzori pe bază de nanomateriale pentru determinarea acidului cafeic. Salonul Cercetari si Inovarii UGALINVENT, Ediţia a IV-a, 16-18 October 2019, Page 114, bronze medal
14. Mahdi Ghasemi-Varnamkhasti, Constantin Apetrei, Jesus Lozano, Amarachukwu Anyogu, Potential use of electronic noses, electronic tongues and biosensors as multisensor systems for spoilage examination in foods, Trends in Food Science & Technology, 80 (2018) 71-92. Premierea rezultatelor de excelență în activitatea CDI din UDJG, 2019.

Appreciations

1. Certificate of Appreciation, ACS Publications, 2011
2. Certificate of Appreciation, ACS Publications, 2012
3. Recognized reviewer - Journal of Applied Research on Medicinal and Aromatic Plants, Achieved: April 2016
4. Recognized reviewer - LWT - Food Science and Technology, Achieved: May 2016
5. Outstanding reviewer - LWT - Food Science and Technology, Achieved: June 2016
6. Recognized reviewer - Sensors & Actuators: B. Chemical, Achieved: June 2016
7. Recognized reviewer - Food Control, Achieved: June 2016
8. Recognized reviewer - Sensors & Actuators: B. Chemical, Achieved: July 2016
9. Outstanding reviewer - Food Control, Achieved: November 2016
10. Recognized reviewer, Computers and Electronics in Agriculture, Achieved: December 2017

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11. Recognized reviewer, Bioelectrochemistry, Achieved: October 2017
12. Outstanding reviewer, Food Chemistry, Achieved: March 2017
13. Recognized reviewer, Food Chemistry, Achieved: November 2016
14. Recognized reviewer – Measurement, Achieved: December 2017
15. Recognized reviewer - Food Research International, Achieved: November 2017
16. Outstanding reviewer - Food Research International, Achieved: July 2017
17. Outstanding reviewer - Electrochimica Acta, Achieved: July 2017
18. Recognized reviewer – Talanta, Achieved: June 2017
19. Recognized reviewer - Electrochimica Acta, Achieved: April 2017
20. Outstanding reviewer - Journal of Food Engineering, Achieved: March 2017
21. Recognized reviewer - Journal of Food Engineering, Achieved: February 2017
22. Outstanding reviewer - Measurement, Achieved: February 2018
23. Outstanding reviewer - Sensors & Actuators: B. Chemical, Achieved: February 2018
24. Outstanding reviewer – Talanta, Achieved: February 2018
25. Certificate Of Excellence in Reviewing, Food Research International 2016
26. Certificate Of Excellence in Reviewing, Chemosphere 2016
27. Recognized reviewer - LWT - Food Science and Technology, Achieved: May 2018
28. Recognized reviewer - Journal of Electroanalytical Chemistry, Achieved: June 2018
29. Recognized reviewer - Food Control, Achieved: July 2018
30. Recognized reviewer - Synthetic Metals, Achieved: July 2018

Member of the **Romanian National Council for the Scientific Research** from 2017 to 2020, consultative council of the Ministry of Research and Innovation,
http://www.research.gov.ro/uploads/sistemul-de-cercetare/organisme-consultative/om-nr213-19-04-2017-cncs-mo287.pdf
Member of **Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU)**, 2020-2024
http://www.cnatdcu.ro/paneluri-cnatdcu/, 4. Chemistry
Chair of the Panels- UEFISCDI:
Postdoctoral projects (PD 2016) PN-III-P1-1.1-PD-2016
- Applied life science and biotechnologies
- Biology and Ecology
Research projects to stimulate young independent teams (TE 2016)
- Engineering Sciences
Complex border research projects (PN-III-P4-IDPCCF-2016)
- Biology and Health
- Engineering Sciences
EEA-RO-NO-2018
- Biotechnologies

Scientific results achieved

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Number of publications in peer review journals: 100 (List of papers)
www.scopus.com

Books edited: 2

Chapters in international books: 12 (List of papers)

H index: 44
www.scopus.com

Citation index: 4035
Self citations of all authors are excluded.
www.scopus.com

Annexes

1. List of papers
2. List of projects

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List of papers

Books edited

1. **C. Apetrei, Corn and Coconut Oil: Antioxidant Properties, Uses and Health Benefits**, ISBN: 978-1-63483-420-9, Nova Publishers, 2015.

2. **Constantin Apetrei**, **Bioactive compounds: natural sources, physicochemical characterization, applications**, Bentham Science Publishers, 2016, eISBN: 978-1-68108-341-4, ISBN: 978-1-68108-342-1, ISSN: 2468-6395.

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1. M.L. Rodríguez-Méndez, **C. Apetrei**, J.A. De Saja, *Electronic Tongues Purposely Designed for the Organoleptic Characterization of Olive Oils*. In: Victor R. Preedy and Ronald Ross Watson, editors, **Olives and Olive Oil in Health and Disease Prevention**. Oxford: Academic Press, 2010, pp. 525-532. ISBN: 978-0-12-374420-3
http://www.sciencedirect.com/science/article/pii/B9780123744203000577

2. M.L. Rodríguez-Méndez, **C. Apetrei**, C. Medina, R. Muñoz, J.A. de Saja, *Sensor arrays based on phthalocyanines: New developments on nanostructured and biomimetic electrochemical sensors*. Chapter 4, pages 139-180, In L. Lvova, D. Kirsanov, A. Legin, C. Di Natale, **Multisensor Systems for Chemical Analysis - Materials and Sensors,** Pan Stanford Publishing, 2013**.**
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3. **C. Apetrei,** M. Ghasemi-Varnamkhasti, Biosensors in food PDO authentication, Chapter 11, in **Comprehensive Analytical Chemistry**, Volume 60 , 2013, Pages 279-297, **Food Protected Designation of Origin - Methodologies and Applications**, Ed. A. Gonzalvez and M. de la Guardia, Elsevier, ISBN: 9780444595621, http://dx.doi.org/10.1016/B978-0-444-59562-1.00011-6
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4. I. M. Apetrei, **C. Apetrei**, Y. El Rayess, Characterization of Red Wines Polyphenolics Employing Sensors and Biosensors (Chapter 2), pp. 41-70. in Wine: Phenolic Composition, Classification and Health Benefits, Editor Youssef El Rayess, 2014, ISBN: 978-1-63321-059-2, Nova Publishers, https://www.novapublishers.com/catalog/product_info.php?products_id=50003&osCsid=647a25d9d412d07c8690696cea0ed681

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14	**Apetrei, C.**, Apetrei, I.M., Villanueva, S., de Saja, J.A., Gutierrez-Rosales, F., Rodriguez-Mendez, M.L., 2010, Combination of an e-nose, an e-tongue and an e-eye for the characterisation of olive oils with different degree of bitterness, Analytica Chimica Acta 663, pp. 91-97, doi:10.1016/j.aca.2010.01.034
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18	Pavinatto, F.J., Fernandes E.G.R., Alessio P., Constantino C.J.L., de Saja J.A., Zucolotto V., **Apetrei C.**, Oliveira O.N. Jr., M.L. Rodriguez-Mendez, 2011, Optimized architecture for Tyrosinase-containing Langmuir-Blodgett films to detect pyrogallol, Journal of Materials Chemistry, 21: 4995-5003, http://dx.doi.org/10.1039/c0jm03864d

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254. Andra-Georgiana Trifan, Constantin Apetrei - Square-Wave Voltammetric Detection of Melatonin Using a Reduced Graphene Oxide-Modified Electrode. Scientific Conference of Doctoral Schools, SCDS-UDJG 2026, The 14th Edition GALAŢI, 11th-12th of June 2026, Book of abstracts, OP, page 20.
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257. Ana-Raluca Măghinici, Constantin Apetrei. Detection of paracetamol with electrochemical sensors based on carbonaceous nanomaterials. Scientific Conference of Doctoral Schools, SCDS-UDJG 2026, The 14th Edition GALAŢI, 11th-12th of June 2026, Book of abstracts, OP, page 41.
258. Andrei-Daniel Geman, Constantin Apetrei - Detection of quercetin with chemically modified sensors. Scientific Conference of Doctoral Schools, SCDS-UDJG 2026, The 14th Edition GALAŢI, 11th-12th of June 2026, Book of abstracts, OP, page 42.

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260. Constantin Apetrei, Irina-Mirela Apetrei. Detection of virgin olive oil adulteration by means of electrochemical biosensors WORKSHOP NEW MATERIALS FOR THE ELECTROCHEMICAL RECOGNITION OF INORGANIC AND BIOLOGICAL SPECIES NOMARES 9, GALAŢI, 11th-13th of June 2026, Book of abstracts, OP, page 22.

List of projects

MANAGER OF SCIENTIFIC PROJECTS

1. MANAGER OF INDIVIDUAL RESEARCH PROJECT
TITLE: „Study of food freshness by means of multisensor systems"
FUNDING ORGANIZATION: Universidad de Valladolid, Scholarship for researchers from other Universities in Valladolid University, Spain
DURATION: 3.07.2008-3.09.2008
2. MANAGER OF INDIVIDUAL RESEARCH PROJECT
TITLE: „ Biosensors based on nanostructured hybrid materials with applications in food industry and for environment quality monitoring"
FUNDING ORGANIZATION: European Union (POSDRU)
Contract POSDRU/89/1.5/S/52432, "ORGANIZAREA ŞCOLII POSTDOCTORALE DE INTERES NAŢIONAL "BIOTEHNOLOGII APLICATE" CU IMPACT ÎN BIOECONOMIA ROMÂNEASCĂ" (SPD-BIOTECH)
DURATION: 1.04.2011-31.12.2011
3. MANAGER OF RESEARCH PROJECT
TITLE: „ Development of an electronic system based on electrochemical sensors and biosensors for the control of biogenic amines"
FUNDING ORGANIZATION: Grant CNCSIS, IDEI, ID_0255, http://www.esscba.ugal.ro/, Contract 39/2011
DURATION: 1.01.2012-1.07.2016
4. Mentor of PD project of Geana Elisabeta-Irina
TITLE: „Innovative strategies based on screening techniques coupled with multivariate statistical analysis used for wines authenticity assessment", http://www.icsi.ro/screen-wine/
FUNDING ORGANIZATION: Grant CNCS-UEFISCDI, PN-III-P1-1.1-PD-2016-0518
DURATION: 2.05.2018-1.05.2020
5. Mentor of PD project of Dragostin Oana-Maria
TITLE: „The obtaining and involvement evaluation in pathological angiogenesis of some polymeric matrices type of nanoparticles with antioxidant potential", https://anap.ugal.ro/?p=acasa&l=en
FUNDING ORGANIZATION: Grant CNCS-UEFISCDI, PN-III-P1-1.1-PD-2016-0233
DURATION: 18.10.2018-17.10.2020
6. MANAGER OF RESEARCH PROJECT
TITLE: „Novel biosensors and smart tools for ultrasensitive detection of olive oils adulteration", www.busdoa.ugal.ro
FUNDING ORGANIZATION: UEFISCDI
PROJECT TYPE: PN-III-P4-ID-PCE-2020--0923
DURATION: 4.01.2021-31.12.2023

PARTICIPATIONS IN EUROPEAN PROJECTS

1. TITLE: "Integrated sensor system for the organoleptic characterisation of wine (Wine Panel Test)".
FUNDING ORGANIZATION: Project CRAFT-1999-70722. Programme de "Quality of Life and Management of living resources"
2. TITLE: "Food Safety and Quality monitoring with Microsystems (GOODFOOD)"
FUNDING ORGANIZATION: European Commission. Information Society Technologies (1ST)
Contract N°: IST-1-508774-1 P. VI Marco Program.
3. MPNS COST Action MP1407, Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS), MC Substitute, http://www.e-minds.ch/the-project/cost-mp1407/, 2015-2018

PARTICIPATIONS IN SPANISH PROJECTS

1. TITLE: "Diseno y construction de un sistema de sensores de olor, sabor y color para el analisis sensorial del aceite de oliva virgen"
FUNDING ORGANIZATION: CICYT (AGL2001-2104-C02-01)
2. TITLE: "Influencia de las levaduras autoctonas en la vinificacion y crianza de vinos de D.O. Ribera del Duero: desarrollo de una metodologia analitica electronica para su evaluacion sensorial"
FUNDING ORGANIZATION: INIA VIN02/006/C2/1
3. TITLE: "Aplicacion de un panel de cata electronico en la caracterizacion de vinos tintos tratados con sistemas alternatives a las barricas de roble"
FUNDING ORGANIZATION: Junta de Castilla y Leon. ITA CyL (VA-16/2005-02-08).
4. TITLE: "Analisis sensorial y fisico-quimico de la presencia de piojillo y acaros en jamones"
FUNDING ORGANIZATION: Centra Tecnologico CARTIF

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5. TITLE: "Diseno de un metodo analitico para la evaluacion de la frescura de peces (Tencas)"
FUNDING ORGANIZATION: Junta de Castilla y Leon. ITA CyL (VA-052A06)
6. TITLE: "Estudio de sistemas amortigiadores basadas en espumas metalicas"
FUNDING ORGANIZATION: ADE/J.C y L./ FEDER, Mecanizados Gines. Miranda de Ebro (Burgos), Spain
7. TITLE: "Componentes estructuralales aeronauticos basados en espumas metalicas (diseno, fabricacion y ensayo)"
FUNDING ORGANIZATION: ADE/JC y U PROFIT FIT-100100-2003-11, Mecanizados Gines.
Miranda de Ebro (Burgos)
8. TITLE: "Evaluacion de vinos tratados con sistemas alternatives a la barrica de roble. Estudio de su evolucion organoleptica, mediante un panel de cata electronico"
FUNDING ORGANIZATION: MEC AGL2006-05501/ALI
9. TITLE: "„Desarrollo de una lengua bioelectrónica específica para el análisis de la maduración de uvas"
FUNDING ORGANIZATION: MEC AGL2012-33535
10. TITLE: "OPTIMIZACION DE NUEVOS PROCESOS EN LA INDUSTRIA ALIMENTARIA, BASADOS EN LA TECNOLOGIA HPCD (HIGH PRESSURE CARBON DIOXIDE), PARA PRESERVAR LA CALIDAD DE ALIMENTOS FRESCOS'', CTQ2015-64396-R
FUNDING ORGANIZATION: MEC: Programa Estatal de I+D+i Orientada a los Retos de la Sociedad

PARTICIPATIONS IN NATIONAL PROJECTS

1. TITLE: „Development of a novel class of light nanostructured polymeric composites with electrical and magnetic properties with applications in aero-spatial industry"
FUNDING ORGANIZATION: Grant CNCSIS tip A COD 514 / theme 1/ 2006
2. TITLE: „Obtaining of nickel nanowires electrodeposited on anodized nano-size cells structure of alumina"
FUNDING ORGANIZATION: Grant CNCSIS, IDEI, ID_2290/2008
3. TITLE: „Development of a versatile fingerprinting system with applications in bitterness analysis of pharmaceuticals"
FUNDING ORGANIZATION: PN-II-RU-TE-2014-4-1093, Contract: 40 / 01.10.2015
4. TITLE: „Cercetari în sprijinul modernizarii sistemului national de monitorizare a ecosistemelor silvice prin utilizarea tehnicilor de teledetectie si a sistemelor de tip UAV"
FUNDING ORGANIZATION: MCI 6PS/2.11.2017 - Proiecte sectoriale, 6.11.2017 – 12.12.2018
5. TITLE: „Strategie şi acţiuni pentru pregătirea participării naţionale la Proiectul DANUBIUS –RI, DANS"
FUNDING ORGANIZATION: Programul de cercetare, dezvoltare şi inovare pentru sistemele fluvii, delte, mări – Danubius
Project code: 4/07.05.2018, 20.06.2018 - 30.06.2019.
6. TITLE: „ Program eficient de pregătire practică a studenților în domeniul protecției și monitorizării mediului - ProMediu",
http://www.promediu.ugal.ro/
FUNDING ORGANIZATION: Fondul Social European prin Programul Operațional Capital Uman 2014-2020, Contract: POCU/90/6.13/6.14/107814, September 2018 – 31 August 2020.
7. TITLE: „ Sistem integrat pentru cercetarea și monitorizarea complexă a mediului în aria fluviului Dunărea, REXDAN", cod SMIS 127065
FUNDING ORGANIZATION: Programul Operațional Competitivitate (POC), Contract: 309/10.07.2020
4.08.2020-31.12.2023
8. TITLE: „Integrated research and sustainable solutions to protect and restore Lower Danube Basin and coastal Black Sea ecosystems", ResPonSE, PNRR, Codul proiectului: 18/16.11.2022 Contract 760010/30.12.2022.
Period: 30.12.2022 - 30.12.2025
9. TITLE: „Cadru inovator al managementului sedimentelor pentru un sistem sustenabil Dunăre-Marea Neagră" – SUNDANSE, contract de finanțare nr. 83PHE/2024, cod proiect PN-IV-P8-8.1-PRE-HE-ORG-2024-0212.
Period: 6.11.2024 - 31.12.2027.

PARTICIPATIONS IN PROJECTS WITH INDUSTRY
1. TITLE: „ Activitatea antioxidantă și beneficiile pentru sănătate ale resveratrolului"
FUNDING ORGANIZATION: SC ESCULAP SRL, contract nr. 669/16.12.2015

2. TITLE: „ Elaborarea unui algoritm de transformare a datelor de turbiditate, determinate cu difractometrul laser, în date care reprezintă masa sedimentelor în suspensie, exprimată în concentrație masică (μg/L)", Contract CT 779/08.10.2021
FUNDING ORGANIZATION: AFDJ Galați
25.10.2021-13.04.2022

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