

## INFORMAȚII PERSONALE

## Apetrei Constantin



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Sexul Bărbătesc | Data nașterii 26/01/1975 | Naționalitatea Română

## EXPERIENȚA PROFESIONALĂ

2015 - până prezent

**Profesor**

Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, [www.sciences.ugal.ro](http://www.sciences.ugal.ro)

- Predare, conducerea și participarea în proiecte de cercetare, coordonarea studenților

Tipul sau sectorul de activitate Activități didactice și de cercetare

2013 -2015

**Conferențiar**

Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, [www.sciences.ugal.ro](http://www.sciences.ugal.ro)

- Predare, conducerea și participarea în proiecte de cercetare, coordonarea studenților

Tipul sau sectorul de activitate Activități didactice și de cercetare

2008 -2013

**Șef de lucrări / Lector**

Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, [www.sciences.ugal.ro](http://www.sciences.ugal.ro)

- Predare, conducerea și participarea în proiecte de cercetare, coordonarea studenților

Tipul sau sectorul de activitate Activități didactice și de cercetare

2006 -2008

**Asistent universitar**

Facultatea de Științe, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, [www.sciences.ugal.ro](http://www.sciences.ugal.ro)

- Lucrări practice, participarea în proiecte de cercetare

Tipul sau sectorul de activitate Activități didactice și de cercetare

2002 -2006

**Cercetător**

Facultatea de Științe, Universitatea din Valladolid, Spania, [www.uva.es](http://www.uva.es)

- Participarea în proiecte de cercetare

Tipul sau sectorul de activitate Activități de cercetare

2001 -2002

**Asistent universitar**

Facultatea de Științe, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, [www.sciences.ugal.ro](http://www.sciences.ugal.ro)

- Lucrări practice, participarea în proiecte de cercetare

Tipul sau sectorul de activitate Activități didactice și de cercetare

2001 -2002

**Preparator universitar**

Facultatea de Științe, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, [www.sciences.ugal.ro](http://www.sciences.ugal.ro)

- Lucrări practice, participarea în proiecte de cercetare

Tipul sau sectorul de activitate Activități didactice și de cercetare

## EDUCAȚIE ȘI FORMARE

Octombrie 2015 **Abilitare în domeniul Chimie / Ordinul Ministrului nr. 5883/4.12.2015**

Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro

- Development of novel sensors and biosensors with applications in food analysis/ Conducător de doctorat în domeniul Chimie

3.01.2011-31.03.2011

**Postdoctorat în biotehnologii aplicate în industria alimentară**

Universitatea „Dunărea de Jos” din Galați, Facultatea de Știința și Ingineria Alimentelor, www.sia.ugal.ro

- Managementul cercetării avansate, Cultura antreprenorială în biotehnologii, Tehnici informatice aplicate în biotehnologii, Aspecte de bioetică, Brevetarea rezultatelor și proprietatea intelectuală, Biotehnologii inovatoare: tehnici și metodologii

1999-2007

**Doctor în Chimie**

Facultatea de Științe, Universitatea „Dunărea de Jos” din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro

- Senzori, Biosenzori, Electrochimie, Chimia alimentelor / Cercetător științific

1997-1999

**Master în Chimie Organică Fizică**

Facultatea de Chimie, Universitatea Alexandru Ioan Cuza Iași, Bd. Copou, www.uaic.ro

- Chimie Organică avansată, Electrochimie organică, Chimie cuantică avansată etc. / Profesor de Chimie, cercetător științific.

1993-1997

**Licențiat în Chimie și Fizică**

Facultatea de Chimie, Universitatea Alexandru Ioan Cuza Iași, Bd. Copou, www.uaic.ro

- Chimie anorganică, Chimie Fizică, Chimie Organică, Fizică mecanică, electricitate, teoretică etc. / Profesor de Chimie și Fizică, cercetător științific.

## COMPETENTE PERSONALE

Limba maternă Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C2	C2	C2	C2	C2
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					
Spaniolă	C2	C2	C2	C2	C2
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat  
Cadru european comun de referință pentru limbi străine

Competențe și abilități sociale

- Experiență în comunicarea cu studenții, cercetătorii și colegii; spirit de echipă; persoană organizată; abilități de abordare sintetică sau globală a unor probleme concrete; capacitate de a stabili și menține relații de lucru bune cu oameni din medii naționale și culturale diferite; capacitate de adaptare la medii multiculturale, obținută prin experiența de muncă în străinătate.

<b>Competențe organizaționale/manageriale</b>	Experiență în managementul și coordonarea echipei de cercetare în proiecte de cercetare științifică; coordonare a studenților pentru lucrări științifice și lucrări de finalizare a studiilor. Membru în comitetul organizatoric și secretar a 5 conferințe științifice: I Reunión Científica sobre aromas (2002), 9th European Conference on Organised Films (ECOF 2004), Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor (2008), The 10th International Conference on Colloids and Surfaces Chemistry, Galați (2011), International Conference of Physical Chemistry – ROMPHYSICHEM 16, (2016), Conferința Școlilor Doctorale UDJG 2017-2022
<b>Competențe dobândite la locul de muncă</b>	Tehnici electroanalitice, tehnica Langmuir -Blodgett, tehnica UHV, tehnica spin-coating, e-tongue, e-nose, sinteză chimică, spectroscopie UV-VIS, spectroscopie IR, chimia și analiza alimentelor, metode chemometrice etc.
<b>Competențe informatice</b>	▪ Microsoft Office, XLStat, CorelDraw, Matlab, The Unscrambler, Statistica etc.
<b>Permis de conducere</b>	▪ B

**INFORMATII SUPLIMENTARE**

<b>Publicații</b>	Numărul de publicații în reviste ISI: 90 (Lista lucrărilor)
<b>Prezentări</b>	Capitole în cărți publicate în edituri internaționale: 11 (Lista lucrărilor)
<b>Proiecte</b>	Capitole în cărți publicate în edituri naționale: 1 (Lista lucrărilor)
<b>Conferințe</b>	Manager de proiecte de cercetare: 6
<b>Seminarii</b>	Membru în echipa în proiecte de cercetare: 23
<b>Distincții</b>	Indicele Hirsch: 34, <a href="http://www.scopus.com">www.scopus.com</a>
<b>Afilieri</b>	Numărul de citări: 2107 (fără autocitări), <a href="http://www.scopus.com">www.scopus.com</a>
<b>Referințe</b>	<a href="https://www.scopus.com/authid/detail.uri?authorId=8969979000">https://www.scopus.com/authid/detail.uri?authorId=8969979000</a>

**ANEXE**

## Lista lucrărilor

**Cărți editate**

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.

**Volume editate**

1. International Conference on Colloids and Surfaces Chemistry (10; 2011; Galați). The 10th International Conference on Colloids and Surfaces Chemistry: June 9th - 10th 2011, Galați, Romania: [book of abstracts]. Eds. Monica Murărescu, Romică Crețu, Paula Popa, **Constantin Apetrei**, Cătălina Iticescu. Galați: Galați University Press (GUP), 2011. 154 p.; 30 cm. ISBN 978-606-8348-05-6.

**Capitole în cărți**

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.  
ISBN hardcover: 9789814411158; ISBN ebook version: 9789814411165.
3. **C. Apetrei**, M. Ghasemi-Varnamkhashi, 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. Gonzalez and M. de la Guardia, Elsevier, ISBN: 9780444595621, <http://dx.doi.org/10.1016/B978-0-444-59562-1.00011-6>  
<http://store.elsevier.com/Food-Protected-Designation-of-Origin/isbn-9780444595621/>
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](https://www.novapublishers.com/catalog/product_info.php?products_id=50003&osCsid=647a25d9d412d07c8690696cea0ed681)

5. I. M. Apetrei, **C. Apetrei**, Biosensor Based on Nanostructured Sensitive Material for the Detection of Epinephrine (Chapter 5), pp. 55-74. in SENSING - MONITORING - TELEDIAGNOSIS FOR LIFE SCIENCES, Vol. II, FOOD AND ENVIRONMENT, Editors L. Floroian, M. Badea, M. Moga, 2014, Editura Universității Transilvania din Brașov, ISBN: 978-606-19-0388-7 gen, ISBN: 978-606-19-0390-0 Vol. II
6. **C. Apetrei**, M. Ghasemi-Varnamkhashti, I. M. Apetrei, Olive oil and combined electronic nose and tongue (Chapter 27), In Electronic Nose and Tongue in Food Science, Editor M.L. Rodriguez-Mendez, Oxford: Academic Press; ISBN:978-0-12-800243-8, 2016, pp. 277-289.
7. **C. Apetrei**, I. M. Apetrei, Chemical composition of corn oil, chapter 1, In Corn and Coconut Oil: Antioxidant Properties, Uses and Health Benefits, Editor: Constantin Apetrei, ISBN: 978-1-63483-420-9, Nova Publishers, 2015, pp. 1-28.
8. I. M. Apetrei, **C. Apetrei**, Quality analyses and authentication of coconut oil, chapter 7, In Corn and Coconut Oil: Antioxidant Properties, Uses and Health Benefits, Editor: Constantin Apetrei, ISBN: 978-1-63483-420-9, Nova Publishers, 2015, pp. 131-158.
9. **Constantin Apetrei**, Wine: Biologic Active Compounds and Health Benefits (Chapter 2), in Bioactive compounds: natural sources, physicochemical characterization, applications, Editor C. Apetrei (Ed.) Bentham Science Publishers, 2016, pp. 32-68.
10. Maria Lisa Clodoveo, Tiziana Dipalmo, Pasquale Crupi, Bernardo C. de Gennaro, Carlo Franchini, Filomena Corbo, **Constantin Apetrei**, Extra Virgin Olive Oils: Bioactive Compounds and Health Benefits (Chapter 1), in Bioactive compounds: natural sources, physicochemical characterization, applications, Editor C. Apetrei (Ed.) Bentham Science Publishers, 2016, pp. 3-31.
11. **Apetrei Constantin**, Mateus D. Maximino, Cibely S. Martin, Priscilla Alessio, Sensors Based on Conducting Polymers for the Analysis of Food Products (Chapter 27) in Polymers for Food Applications, Editors: Gutiérrez, Tomy (Ed.), eBook ISBN 978-3-319-94625-2, DOI 10.1007/978-3-319-94625-2, Hardcover ISBN 978-3-319-94624-5, Springer, 2018 pp. 757-792.
12. **Constantin Apetrei**, Alexandra Virginia Bounegru. 3.23 - Electronic Noses and Traceability of Foods. Comprehensive Foodomics 2021, Pages 290-307. <https://doi.org/10.1016/B978-0-08-100596-5.22852-7>

### Articole publicate în reviste ISI

1. **Apetrei, C.**, Rodríguez-Méndez, M.L., Parra, V., Gutierrez, F., De Saja, J.A., 2004, Array of voltammetric sensors for the discrimination of bitter solutions, Sensors and Actuators B: Chemical 103, pp. 145-152, doi:10.1016/j.snb.2004.04.047
2. Arrieta, A.A., **Apetrei, C.**, Rodríguez-Méndez, M.L., De Saja, J.A., 2004, Voltammetric sensor array based on conducting polymer-modified electrodes for the discrimination of liquids, Electrochimica Acta 49, pp. 4543-4551, doi:10.1016/j.electacta.2004.05.010
3. Casilli, S., De Luca, M., **Apetrei, C.**, Parra, V., Arrieta, A.A., Valli, L., Jiang, J., Rodríguez-Méndez, M.L., De Saja, J.A., 2005, Langmuir-Blodgett and Langmuir-Schaefer films of homoleptic and heteroleptic phthalocyanine complexes as voltammetric sensors:: Applications to the study of antioxidants, Applied Surface Science 246 (4), pp. 304-312, doi:10.1016/j.apsusc.2004.11.002
4. **Apetrei, C.**, Rodríguez-Méndez, M.L., De Saja, J.A., 2005, Modified carbon paste electrodes for discrimination of vegetable oils, Sensors and Actuators, B: Chemical 111-112, pp. 403-409, doi:10.1016/j.snb.2005.03.041
5. Parra, V., Arrieta, A.A., Fernández-Escudero, J.A., García, H., **Apetrei, C.**, Rodríguez-Méndez, M.L., Saja, J.A., 2006, E-tongue based on a hybrid array of voltammetric sensors based on phthalocyanines, perylene derivatives and conducting polymers: Discrimination capability towards red wines elaborated with different varieties of grapes, Sensors and Actuators, B: Chemical 115 (1), pp. 54-61, doi:10.1016/j.snb.2005.08.040
6. **Apetrei, C.**, Casilli, S., De Luca, M., Valli, L., Jiang, J., Rodríguez-Méndez, M.L., De Saja, J.A., 2006, Spectroelectrochemical characterisation of Langmuir-Schaefer films of heteroleptic phthalocyanine complexes. Potential applications, Colloids and Surfaces A: Physicochemical and Engineering Aspects 284-285, pp. 574-582, doi:10.1016/j.colsurfa.2005.10.069
7. **Apetrei, C.**, Apetrei, I.M., Nevares, I., del Alamo, M., Parra, V., Rodríguez-Méndez, M.L., De Saja, J.A., 2007, Using an e-tongue based on voltammetric electrodes to discriminate among red wines aged in oak barrels or aged using alternative methods. Correlation between electrochemical signals and analytical parameters, Electrochimica Acta 52 (7), pp. 2588-2594, doi:10.1016/j.electacta.2006.09.014
8. Apetrei, C., Gutierrez, F., Rodríguez-Méndez, M.L., de Saja, J.A., 2007, Novel method based on carbon paste electrodes for the evaluation of bitterness in extra virgin olive oils, Sensors and Actuators, B: Chemical 121 (2), pp. 567-575, doi:10.1016/j.snb.2006.04.091
9. Rodríguez-Méndez, M.L., **Apetrei, C.**, Apetrei, I., Villanueva, S., De Saja, J.A., Nevares, I., Del Alamo, M., 2007, Combination of an electronic nose, an electronic tongue and an electronic eye for the Analysis of Red Wines aged with alternative methods, IEEE International Symposium on Industrial Electronics, art. no. 4375050, pp. 2782-2787, doi: 10.1109/ISIE.2007.4375050
10. 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), pp. 5867-5872, doi:10.1016/j.electacta.2008.04.006
11. Rodríguez-Méndez, M.L., Parra, V., **Apetrei, C.**, Villanueva, S., Gay, M., Prieto, N., Martínez, J., De Saja, J.A., 2008, Electronic tongue based on voltammetric electrodes modified with materials showing complementary electroactive properties. Applications, Microchimica Acta 163 (1-2), pp. 23-31, DOI: 10.1007/s00604-007-0907-8
12. 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 bi thiophene derivative, Sensors and Actuators, B: Chemical 141 (2), pp. 625-633, doi:10.1016/j.snb.2009.06.018
13. 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, doi:10.1016/j.electacta.2009.07.024
14. **Apetrei, C.**, Apetrei, I.M., Villanueva, S., de Saja, J.A., Gutierrez-Rosales, F., Rodríguez-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
15. Stoica, M., Cârâc, G., **Apetrei, C.**, Cantaragiu, A.-M., 2010, Electrochemical study of stainless steel surfaces in biodegradable biocides, Journal of Optoelectronics and Advanced Materials 12, pp. 919-922, <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=2435&catid=49>

16. 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, doi:10.1016/j.electacta.2010.05.090
17. **Apetrei, C.**, Alessio, P., Constantino, C.J.L., de Saja, J.A., Rodríguez-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, doi:10.1016/j.bios.2010.10.047
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. Rodríguez-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>
19. **Apetrei, C.**, Apetrei, I.M., De Saja, J.A., Rodríguez-Mendez M.L., 2011, Carbon paste electrodes made from different carbonaceous materials: application in the study of antioxidants, *Sensors*, 11, pp. 1328-1344, doi:10.3390/s110201328
20. **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, doi:10.1016/j.electacta.2011.07.127
21. **Apetrei, C.**, Nieto, M., Rodríguez-Méndez, M.L., de Saja, J.A., 2011, Development of lutetium bisphthalocyanine/carbon nanotube Langmuir-Blodgett films. Sensing properties, *Journal of Porphyrins & Phthalocyanines*, 15, pp. 908-917, DOI No: 10.1142/S108842461100377X
22. Ghasemi-Varnamkhashi, 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, doi:10.1016/j.foodcont.2011.10.020
23. Ghasemi-Varnamkhashi, M., Mohtasebi, S.S., Rodríguez-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, doi:10.1016/j.eswa.2011.09.101
24. 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, doi:10.1016/j.foodres.2011.10.034
25. 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, <http://dx.doi.org.sciencedirect.com/10.1016/j.snb.2012.02.088>
26. **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, <http://dx.doi.org.sciencedirect.com/10.1016/j.foodres.2012.06.010>
27. **Apetrei, C.**, De Saja, J.A., Rodríguez-Mendez, M.L., 2012, Nanostructured vs. carbonaceous biosensors: Comparative studies for detection of phenolic compounds, *BIODEVICES 2012 - Proceedings of the International Conference on Biomedical Electronics and Devices* , pp. 104-109, DOI: 10.5220/0003715701040109
28. **Apetrei, C.**; Saja, J.A.; Zurro, J.; Rodríguez-Méndez, M.L., 2012, Advantages of the Biomimetic Nanostructured Films as an Immobilization Method vs. the Carbon Paste Classical Method, *Catalysts*, 2, 517-531, doi:10.3390/catal2040517
29. Apetrei, I.M., Rodríguez-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, <http://dx.doi.org.sciencedirect.com/10.1016/j.snb.2012.10.131>
30. 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, <http://dx.doi.org.sciencedirect.com/10.1016/j.snb.2012.12.064>
31. N. Prieto, P. Oliveri, R. Leardi, M. Gay, C. **Apetrei**, M.L. Rodríguez-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, <http://dx.doi.org/10.1016/j.snb.2013.03.114>
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## Proiecte de cercetare

### Manager de proiect

#### 1. MANAGER PROIECT INDIVIDUAL DE CERCETARE

TITLUL PROIECTULUI INDIVIDUAL: „Study of food freshness by means of multisensor systems”

SURSA DE FINANȚARE: Universidad de Valladolid, Scholarship for researchers from other Universities in Valladolid University, Spain

DURATA: 3.07.2008-3.09.2008

#### 2. MANAGER PROIECT INDIVIDUAL DE CERCETARE

TITLUL PROIECTULUI INDIVIDUAL: „Biosensors based on nanostructured hybrid materials with applications in food industry and for environment quality monitoring ”

SURSA DE FINANȚARE: Uniunea Europeană

Contract POSDRU/89/1.5/S/52432, "ORGANIZAREA ȘCOLII POSTDOCTORALE DE INTERES NAȚIONAL "BIOTEHNOLOGII APLICATE" CU IMPACT ÎN BIOECONOMIA ROMÂNEASCĂ" (SPD-BIOTECH)

DURATA: 1.04.2011-31.12.2011

#### 3. MANAGER PROIECT DE CERCETARE

TITLUL PROIECTULUI: „Development of an electronic system based on electrochemical sensors and biosensors for the control of biogenic amines”

SURSA DE FINANȚARE: UEFISCDI

TIPUL DE PROIECT: PN-II-ID-PCE-2011-3, Contract numărul 39/2011

DURATA: 1.01.2012-30.07.2016

#### 4. Mentor al proiectului PD – dr. Geana Elisabeta-Irina

TITLUL: „Innovative strategies based on screening techniques coupled with multivariate statistical analysis used for wines authenticity assessment” monitoring ”

SURSA DE FINANȚARE: Grant CNCS-UEFISCDI, PN-III-P1-1.1-PD-2016-0518

DURATA: 2.05.2018-1.05.2020

#### 5. Mentor al proiectului PD – dr. Dragostin Oana-Maria

TITLUL: „The obtaining and involvement evaluation in pathological angiogenesis of some polymeric matrices type of nanoparticles with antioxidant potential” monitoring ”

SURSA DE FINANȚARE: Grant CNCS-UEFISCDI, PN-III-P1-1.1-PD-2016-0233

DURATA: 18.10.2018-17.10.2020

#### 6. MANAGER PROIECT DE CERCETARE

TITLUL PROIECTULUI: „Noi biosenzori si instrumente inteligente pentru detectia ultrasensibila a falsificarii uleiurilor de masline”

SURSA DE FINANȚARE: UEFISCDI

TIPUL DE PROIECT: PN-III-P4-ID-PCE-2020-0923

DURATA: 4.01.2021-31.12.2023

### Membru in proiect

#### Proiecte europene

1. TITLUL PROIECTULUI: "Integrated sensor system for the organoleptic characterisation of wine (Wine Panel Test)".

SURSA DE FINANȚARE: Project CRAFT-1999-70722. Programme de "Quality of Life and Management of living resources"

PERIOADA: 1.07.2002-31.05.2004

2. TITLUL PROIECTULUI: "Food Safety and Quality monitoring with Microsystems (GOODFOOD)"

SURSA DE FINANȚARE: Commission European. Information Society Technologies (1ST)

Contract N°: IST-1-508774-1 P. VI Marco Program.

PERIOADA: 1.01.2004-1.01.2008

3. TITLUL PROIECTULUI: 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/>

PERIOADA: 2015-2018

#### Proiecte naționale (Spania)

1. TITLUL PROIECTULUI: "Diseño y construcción de un sistema de sensores de olor, sabor y color para el análisis sensorial del aceite de oliva virgen"



- SURSA DE FINANȚARE: CICYT (AGL2001-2104-C02-01)  
 PERIOADA: 1.06.2002 - 30.07.2004
2. TITLUL PROIECTULUI: "Influencia de las levaduras autoctonas en la vinificación y crianza de vinos de D.O. Ribera del Duero: desarrollo de una metodología analítica electrónica para su evaluación sensorial"  
 SURSA DE FINANȚARE: INIA VIN02/006/C2/1  
 PERIOADA: 1.06.2002 - 30.07.2005
3. TITLUL PROIECTULUI: "Aplicación de un panel de cata electrónico en la caracterización de vinos tintos tratados con sistemas alternativos a las barricas de roble"  
 SURSA DE FINANȚARE: Junta de Castilla y Leon. ITA CyL (VA-16/2005-02-08).  
 PERIOADA: 1.02. 2005 - 30 .07. 2006
4. TITLUL PROIECTULUI: "Análisis sensorial y físico-químico de la presencia de piojillo y ácaros en jamones"  
 FUNDING ORGANIZATION: Centro Tecnológico CARTIF (Valladolid)  
 PERIOADA: 1.06. 2005 - 30.07.2006
5. TITLUL PROIECTULUI: "Diseño de un método analítico para la evaluación de la frescura de peces (Tencas)"  
 SURSA DE FINANȚARE: Junta de Castilla y Leon. ITA CyL (VA-052A06)  
 PERIOADA: 18.07. 2006 - 31.12.2008
6. TITLUL PROIECTULUI: "Estudio de sistemas amortiguadores basadas en espumas metálicas"  
 SURSA DE FINANȚARE: ADE/J.C y L./ FEDER, Mecanizados Gines. Miranda de Ebro (Burgos), Spain  
 PERIOADA: 1.06. 2004 - 30.06.2005
7. TITLUL PROIECTULUI: "Componentes estructurales aeronáuticos basados en espumas metálicas (diseño, fabricación y ensayo)"  
 SURSA DE FINANȚARE: ADE/JC y U PROFIT FIT-100100-2003-11, Mecanizados Gines.  
 Miranda de Ebro (Burgos)  
 PERIOADA: 1.07. 2005 - 31.12.2005
8. TITLUL PROIECTULUI: "Evaluación de vinos tratados con sistemas alternativos a la barrica de roble. Estudio de su evolución organoléptica, mediante un panel de cata electrónico"  
 SURSA DE FINANȚARE: MEC AGL2006-05501/ALI  
 PERIOADA: 1.07. 2005 - 31.12.2009
9. TITLUL PROIECTULUI: "Desarrollo de una lengua bioelectrónica específica para el análisis de la maduración de uvas"  
 SURSA DE FINANȚARE: MEC AGL2012-33535  
 PERIOADA: 1.01. 2013 - 31.12.2015
10. TITLUL: "OPTIMIZACIÓN 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  
 SURSA DE FINANȚARE: MEC: Programa Estatal de I+D+i Orientada a los Retos de la Sociedad  
 PERIOADA: 2016 - 2018

### Proiecte naționale (România)

1. TITLUL: „Development of a novel class of light nanostructured polymeric composites with electrical and magnetic properties with applications in aero-spatial industry”  
 SURSA DE FINANȚARE: Grant CNCIS tip A COD 514 / theme 1/ 2006  
 PERIOADA: 1.01.2006-31.12.2006
2. TITLUL: „Obtaining of nickel nanowires electrodeposited on anodized nano-size cells structure of alumina”  
 SURSA DE FINANȚARE: Grant CNCIS, IDEI, ID\_2290/2008  
 PERIOADA: 21.01.2009-31.12.2009
3. TITLUL: „Development of a versatile fingerprinting system with applications in bitterness analysis of pharmaceuticals”  
 SURSA DE FINANȚARE: PN-II-RU-TE-2014-4-1093, Contract: 40 / 01.10.2015  
 PERIOADA: 1.10.2015-30.09.2017
4. TITLUL: „Cercetari în sprijinul modernizării sistemului național de monitorizare a ecosistemelor silvice prin utilizarea tehnicilor de teledetectie și a sistemelor de tip UAV”  
 SURSA DE FINANȚARE: MCI 6PS/2.11.2017 - Proiecte sectoriale, 6.11.2017 – 12.12.2018
5. TITLUL: „Strategie și acțiuni pentru pregătirea participării naționale la Proiectul DANUBIUS –RI, DANS”  
 SURSA DE FINANȚARE: Programul de cercetare, dezvoltare și inovare pentru sistemele fluvii, delte, mări – Danubius  
 Project code: 4/07.05.2018, 20.06.2018 - 30.06.2019.
6. TITLUL: „Program eficient de pregătire practică a studenților în domeniul protecției și monitorizării mediului - ProMediu”  
 SURSA DE FINANȚARE: Fondul Social European prin Programul Operațional Capital Uman 2014-2020, Contract: POCU/90/6.13/6.14/107814, Septembrie 2018 – 2 Iulie 2020.
7. TITLUL: „Sistem integrat pentru cercetarea și monitorizarea complexă a mediului în aria fluviului Dunărea, REXDAN”, cod SMIS 127065  
 SURSA DE FINANȚARE: Programul Operațional Competitivitate (POC), Contract: 309/10.07.2020  
 4.08.2020-31.12.2023

### Proiecte cu societăți economice

1. TITLUL: „Activitatea antioxidantă și beneficiile pentru sănătate ale resveratrolului”  
 SURSA DE FINANȚARE: SC ESCULAP SRL, contract nr. 669/16.12.2015  
 PERIOADA: 6.12.2015-15.12.2016
2. TITLUL: „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

31.10.2022



