

INFORMAȚII PERSONALE

Andreea Maria IORDACHE

Adresa: Venus, 16, Râmnicu Vâlcea, 240639, Romania

Telefon: +40 250 73 27 44/int 213; +40 75 25 47 024

Email: iordache_andreeamaria@yahoo.com; andreea.iordache@icsi.ro

Sexul: Feminin | Data nașterii 13/07/1982 | Naționalitatea Română

POZIȚIE

✓ CERCETĂTOR ȘTIINȚIFIC GRADUL I

EXPERIENȚA PROFESIONALĂ
Cercetare

10.06.2019 - prezent Dr. Cercetător Științific Gradul I (CSI)

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice-ICSI Rm. Vâlcea, Strada Uzinei nr. 4, 240050, Jud. Vâlcea, România, Tel: 0040 250 732744, Fax: 0040 250 732746, E-mail: office@icsi.ro, Website: <http://www.icsi.ro/>, <https://www.icsi.ro/cercetare/departamente/icsi-analytics/echipa-personal-cheie/>

Activități coordonate în calitate de director de proiect și colaborator proiecte de cercetare, privind: (i) cercetare privind aplicarea izotopilor și a altor markeri/bio-markeri în domeniul științelor mediului și vieții, cu accent pe siguranță alimentară, ecologie și hidrologie; (ii) susținerea activităților de cercetare în domeniul schimbărilor climatice și crearea unei baze naționale de date privind schimbările climatice prin intermediul probelor de mediu; (iii) actualizarea scenariilor climatice; (iv) implementarea strategiei privind reducerea emisiilor de gaze cu efect de seră și creșterea capacității naturale de absorbție a CO₂ din atmosferă; (v) monitorizarea procesului de adaptare și atenuare a efectelor schimbărilor climatice prin studiul izotopilor stabili și a rapoartelor izotopice din diferite matrici.

Tipul sau sectorul de activitate: Cercetare-Dezvoltare în domeniul aplicațiilor izotopilor și Apă Grea

15.06.2016 – 09.06.2019 Dr. Cercetător Științific Gradul II (CSII)

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice-ICSI Rm. Vâlcea, Strada Uzinei nr. 4, 240050, Jud. Vâlcea, România, Tel: 0040 250 732744, Fax: 0040 250 732746, E-mail: office@icsi.ro, Website: <http://www.icsi.ro/>, <https://www.icsi.ro/cercetare/departamente/icsi-analytics/echipa-personal-cheie/>

Activități coordonate în calitate de director de proiect și colaborator proiecte de cercetare, privind: (i) dezvoltarea de metodologii alternative, substitutive sau complementare ale amprentării izotopice pentru caracterizarea și clasificarea produselor naturale, în scopul determinării originii și a trasabilității materialelor; (ii) investigații analitice complexe pentru studiul apelor de suprafață și subterane, respectiv influența surselor de poluare punctuale/non-punctuale, a proceselor de tratare a apelor, gestionarea deșeurilor organice și industriale în scopul valorificării acestora; (iii) responsabil laborator etalonare/certificare a concentrației de deuteriu din APĂ GREA (D₂O); (iv) acreditare RENAR pentru laboratoarele de încercări, cu coordonator/auditor intern în cadrul laboratoarelor de încercare.

Tipul sau sectorul de activitate: Cercetare-Dezvoltare în domeniul aplicațiilor izotopilor și Apă Grea

01.12.2011 – 14.06.2016 Dr. Cercetător Științific Gradul III (CSIII)

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice-ICSI Rm. Vâlcea, Strada Uzinei nr. 4, 240050, Jud. Vâlcea, România, Tel: 0040 250 732744, Fax: 0040 250 732746, E-mail: office@icsi.ro, Website: <http://www.icsi.ro/>, <https://www.icsi.ro/cercetare/departamente/icsi-analytics/echipa-personal-cheie/>

Activități coordonate în calitate de responsabil de activități și colaborator proiecte de cercetare, privind: (i) coordonarea de proiecte/teme de cercetare aplicativă orientată spre mediu și calitatea vieții; (ii) cercetare în domeniul aplicațiilor izotopilor stabili în domeniul securității alimentare și studii de metabolism utilizând trăsori

marcați cu izotopi stabili (^{13}C , ^{15}N); (iii) studii ale componentelor cu valoare terapeutică din plante medicinale, aminoacizi și acizi grași din plasmă, transport transmembranar, biomarkeri utilizați în diagnosticarea unor boli metabolice la copii, precum și studii toxicologice din produse cosmetice cu impact asupra sănătății umane.
Tipul sau sectorul de activitate: Cercetare academică/Biofizică

01.10.2012 – 10.01.2015 Dr. Cercetător postdoctoral (PD)

Regional Center of Advanced Technologies and Materials RCPTM, Faculty of Science, Palacký University, Olomouc, Šlechtitelů 27, 78371, Czech Republic; Institute of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Waehringerstrasse 38, 1090, Vienna, Austria.

Activități coordonate în calitate de responsabil de activități și colaborator proiecte de cercetare, privind: (i) testare/instalare și optimizare instrumentală în vederea dezvoltării aplicațiilor în medicină legală, controlul alimentelor și aplicații clinice; (ii) implicată în studii de cercetare aplicativă privind tehnici de ionizare alternative (surse handmade) și dezvoltare de noi metode prin tehnica spectrometriei de masă; (iii) aspectele medicale de cercetare și dezvoltare de cercetare aplicativă prin tehnici MALDI-TOF pentru determinare nivelului de medicamente (ketoconazol, nurofen, etc.) din matricea rădăcinii firului de par; (iv) analiza masei intacte și confirmare proteine și peptide prin tehnica MALDI-TOF sau ionizare electrospray (ESI și nanoESI) cuplată cu spectrometrie de masă MS/MSⁿ; (v) competență în aparatură de cercetare, mod de folosire, întreținere și mentenanță; (vi) colaborator proiecte de cercetare internaționale.

Tipul sau sectorul de activitate: Cercetare academică/Chimie analitică

01.12.2008 – 01.12.2011 Cercetător Științific (CS)

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice-ICSI Rm. Vâlcea, Strada Uzinei nr. 4, 240050, Jud. Vâlcea, România, Tel: 0040 250 732744, Fax: 0040 250 732746, E-mail: office@icsi.ro, Website: <http://www.icsi.ro/>, <https://www.icsi.ro/cercetare/departamente/icsi-analytics/echipa-personal-cheie/>

Colaborator la proiecte de cercetare privind: (i) testarea și obținerea de produse bioactive și/sau medicamente încapsulate sub formă de nanostructuri biodegradabile, care ajută la dezvoltarea de noi medicamente-țintă, cu efect antitumoral; (ii) diagnosticarea bolilor metabolice folosind biomarkeri (cafeina pentru ciroză, markeri de respirație); (iii) diagnosticarea unor boli metabolice la copii (fenilketonuria (PKU) și boala urinei cu miros de arșar (MSUD)) prin tehnici de cercetare non-invasive.

Tipul sau sectorul de activitate: Cercetare academică/Biofizică

11.04.2007 – 01.12.2008 Asistent Cercetare (ACS)

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice-ICSI Rm. Vâlcea, Strada Uzinei nr. 4, 240050, Jud. Vâlcea, România, Tel: 0040 250 732744, Fax: 0040 250 732746, E-mail: office@icsi.ro, Website: <http://www.icsi.ro/>, <https://www.icsi.ro/cercetare/departamente/icsi-analytics/echipa-personal-cheie/>

Colaborator proiecte de cercetare

Tipul sau sectorul de activitate: Cercetare aplicată în domeniul monitorizării mediului; aplicarea izotopilor stabili în studii hidrologice – Lucrare de stagiu.

EDUCAȚIE ȘI FORMARE

09.11.2025 – 15.11.2025 **Specializare** – Chimie analitică: măsurare, intercalibrare, analiză și interpretare a izotopilor stabili de litiu (^6Li , ^7Li) prin tehnica ablației laser cuplată cu spectrometrie de masă cu plasmă cuplată inductiv (LA-ICP-MS), comparativ cu Quadrupole ICP-MS

Regional Center of Advanced Technologies and Materials RCPTM, Faculty of Science, Palacký University, Olomouc, Šlechtitelů 27, 78371, Czech Republic

Tipul sau sectorul de activitate: măsurare, intercalibrare, analiză de date și interpretare a rezultatelor izotopilor stabili și a rapoartelor izotopice, rezultate din utilizarea unui aparat dedicat (LA-ICP-MS) și a unei versiuni accesibile la nivel industrial (Q-ICP-MS).

14.01.2024 – 26.01.2024 **Specializare** – Chimie analitică/spectrometrie de masă privind izotopii stabili de litiu (^6Li , ^7Li) prin tehnica Quadrupole ICP-MS

Department of Biochemistry- University of Porto, Portugal -supervisor Ph.D. Rui M. Santos Global Manager ICP-MS Application Specialists, Portugal

Tipul sau sectorul de activitate: calibrarea parametrilor externi și interni ai instrumentului Q-ICP-MS, măsurarea, analiza datelor și interpretarea rezultatelor izotopilor stabili și a rapoartelor izotopice, crearea de metode și protocoale. Producerea de rezultate pe probe biologice folosite ulterior de producătorii de aparatură pentru certificarea instrumentului.

14.01.2024 – 26.01.2024 **Specializare** – Chimie analitică/spectrometrie de masă privind izotopii stabili de litiu (^6Li , ^7Li) prin tehnica Quadrupole ICP-MS

Department of Biochemistry- University of Porto, Portugal -supervisor Ph.D. Rui M. Santos Global Manager ICP-MS Application Specialists, Portugal

Tipul sau sectorul de activitate: calibrarea parametrilor externi și interni ai instrumentului Q-ICP-MS, măsurarea și analiza datelor, interpretarea rezultatelor izotopilor stabili și a rapoartelor izotopice, crearea de metode și protocoale.

01.09.2020 – 30.09.2020 **Specializare** – Chimie analitică măsurare, analiză și interpretare probe de dendrochimie (inele anuale arbori) prin tehnica LA-ICP-MS

Department of Analytical Chemistry, Palacký University in Olomouc; Regional Center of Advanced Technologies and Materials RCPTM, Faculty of Science, Palacký University, Olomouc, Šlechtitelů 27, 78371, Czech Republic - supervisor RNDr. Tomáš Pluháček, Ph.D., Assoc. Prof. RNDr. Petr Bednář, Ph.D. Head of the Department of Analytical Chemistry.

Tipul sau sectorul de activitate: metode ICP-MS, prepararea probelor, analiza cantitativă, intercalibrare, analiza statistică și interpretarea datelor.

27.10.2019 – 09.11.2019 **Specializare** – Chimie analitică măsurare, analiză și interpretare probe de dendrochimie (inele anuale arbori) prin tehnica LA-ICP-MS

Department of Analytical Chemistry, Palacký University in Olomouc; Regional Center of Advanced Technologies and Materials RCPTM, Faculty of Science, Palacký University, Olomouc, Šlechtitelů 27, 78371, Czech Republic - supervisor RNDr. Tomáš Pluháček, Ph.D., Assoc. Prof. RNDr. Petr Bednář, Ph.D. Head of the Department of Analytical Chemistry.

Tipul sau sectorul de activitate: metode ICP-MS, prepararea probelor, analiza cantitativă, analiza statistică și interpretarea datelor.

01.10.2012 – 10.01.2015 **Specializare** – Program postdoctoral de cercetare avansată-Chimie analitică/Spectrometrie de masă

Department of Analytical Chemistry, Palacký University in Olomouc; Regional Center of Advanced Technologies and Materials RCPTM, Faculty of Science, Palacký University, Olomouc, Šlechtitelů 27, 78371, Czech Republic - supervisor RNDr. Tomáš Pluháček, Ph.D., Assoc. Prof. RNDr. Petr Bednář, Ph.D. Head of the Department of Analytical Chemistry.

Tipul sau sectorul de activitate: Mecanisme de desorbție/ionizare/tehnici nano-DESI, ESI și EESI/investigarea factorilor decisivi pentru eficiența surselor de ioni/aplicații în medicină legală/controlul alimentelor/aplicații clinice.

01.10.2014 – 15.12.2014 **Specializare** – pozitie postdoctorală-mobilitate schimb de experiență postdoctoral

Institute of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria

Tipul sau sectorul de activitate: Confirmare a proteinelor și a peptidelor prin tehnica MALDI-TOF, respectiv prin ionizare electrospray (ESI și nanoESI), cuplată cu spectrometrie de masă MS/MSⁿ.

01.11.2006 – 14.11.2011 **Doctor în Fizică**

"Studiul unor sisteme complexe cu aplicații biomedicale și ecologice" – 2011, Universitatea Babeș-Bolyai, Facultatea de Fizică, Cluj-Napoca, România, Conducător de doctorat: Prof. Univ. Habil. Dr. Onuc COZAR. Domeniul – Biofizică și Fizică Atomică și Moleculară/Fizică-medicală/ Metodologia cercetării științifice

28.01.2008 – 01.02.2008 **Specializare** – Cerințe generale pentru competența laboratoarelor de încercări și etalonări și auditarea sistemelor de management al calității și de mediu, Brașov

Tipul sau sectorul de activitate: Cursuri de instruire, acreditare a laboratoarelor RENAR/SR EN ISO/CEI 17025:2005 și SR EN ISO 19011:2003/implementare, validare/incertitudine de măsurare.

01.10.2005 – 01.07.2007 **Masterat în Fizică Medicală**

Universitatea Babes-Bolyai, Facultatea de Fizică, Cluj-Napoca, România
Claude Bernard University, Lyon, Franța (mobilitate).
Instrumentarea sistemelor de semnal și imagine în tehnica rezonanței magnetice nucleare (RMN) / utilizarea tehnologiei biomedicale în unitatea sanitară Institutul de Oncologie "Prof. Dr. I. Chiricuța", Cluj-Napoca.

15.11.2006 – 05.12.2006 **Specializare – Fizică Medicală**

European School of Medical Physics, ESMP, Geneva – France

Tipul sau sectorul de activitate: Computerizare medicală/Radioterapie/Brahiterapie

27.10.2005 – 15.06.2005 **Specializare – Fizică Medicală**

European School of Medical Physics, ESMP, Geneva – France

Tipul sau sectorul de activitate: Ultrasonete și Rezonanță Magnetică/Imagistică medicală cu radiații ionizante

01.10.2001 – 15.06.2005 **Fizician Medical**

Universitatea Babes-Bolyai, Facultatea de Fizică, Cluj-Napoca, România
Testarea și punerea în aplicare a biomarkerilor în practica clinică/sprijinirea cercetării/prevenirea și diseminarea cunoștințelor privind cancerul de col uterin prin brahiterapie.

01.10.1997 – 01.07.2001 **Colegiul Național "Mircea cel Bătrân"**

Liceu – specializarea Informatică

COMPETENTE PERSONALE

Limba maternă Română

Alte limbi străine cunoscute

ÎNȚELEGERE

VORBIRE

SCRIERE

Ascultare

Citare

Participare la conversație

Discurs oral

Exprimare scrisă

Engleză

C1

C1

C1

C1

C1

Franceză

B1

B1

B2

B2

B2

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
Cadru european comun de referință pentru limbi străine

Competențe de comunicare

Bune competențe de comunicare dobândite prin experiența muncii în echipă în facultate și locul de muncă, prin relații de colaborare inter- și intraspecializări.

Competențe organizaționale/manageriale

Abilități de lider / Trăsături și calități: auto-motivat, aleg standarde de performanță, încredere, optimism și pozitivitate, responsabilitate, curaj, angajat, caracter, integritate, respectabil, plăcut, etic, loial, carisma, inteligență emoțională, costuri, disciplină, perspectivă, managementul riscului, managementul timpului, siguranța de sine, maturitate, conducerea prin exemplu, construirea relațiilor, aptitudini sociale, abilități de vorbire / vorbire publică, onestitate și transparentă, compasiune, abilitate de a încuraja pe cei din jur, abilități de negociere, claritate, abilități de a preda, interesat de feedback, încredere în echipă, abilitatea de a inspira, transformarea viziunii în realitate, îmi asum responsabilitatea, respect pentru ceilalți, decisivitate, angajament față de viziune, coerență, capacitate de pivotare, confrunt cu obstacole cu grație, gândire strategică, proactivă, flexibilă, creativă, intuitivă, urmăresc noi experiențe, curiozitate, competență, concentrare.

Consilier local al Municipiului Râmnicu Vâlcea (mandatul 2019–2024).

Administrator public al Municipiului Râmnicu Vâlcea (01.12.2025–prezent)

Competențe dobândite la locul de muncă

O bună cunoaștere a modului de obținere și de derulare a proiectelor științifice.

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
UEX	UEX	UEX	UEX	UEX
Niveluri: Utilizator elementar (UEL) - Utilizator independent (UI) - Utilizator experimentat (UEX)				
Competențele digitale - Grilă de auto-evaluare				
Utilizator experimentat al programelor informatice: <i>CorelDRAW, Adobe Photoshop, QGIS, Rgui, Statistica, Matlab, OriginLab.</i>				

Alte competențe

Literatura / Sportul

Permis de conducere

B

INFORMATII SUPLIMENTARE

Cărți

1. Botoran, O.R., Ionete, R.E., Ciucure, C.T., CiŃic, A., Costinel, D., Geană, E.I., **Iordache, A.M.**, Moisac, A., Șandru, C., 2025. *Metode Analitice pentru Evaluarea Siguranței și Compoziției Fructelor Produse în Sistem Organic – COMPENDIU*. Validare – Studiu de caz „Zmeura”, 114 pagini, ISBN: 978-973-0-41400-4, Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Rm. Vâlcea, Rm. Vâlcea, 2025, Romania
2. Voica, C., **Iordache, A.M.**, 2025. Chapter 7: *Analysis of Strontium and Lead Isotopic Ratios in Environmental Matrices Using ICP-MS*, in book: *Geography, Earth Science and Environment: Research Highlights*, Vol. 8, pp. 142-154, DOI: <https://doi.org/10.9734/bpi/geserh/v8/4862>, Print ISBN: 978-93-49729-94-0, eBook ISBN: 978-93-49729-43-8, BP International, Romania
3. Voica, C., Marincas, O., Feher, I., **Iordache A.M.**, 2025. Chapter 5: *River Water Chemistry in Romania: An Overview*. In book: *Chemistry and Biochemistry: Research Progress*, Vol. 5, 48-62, <https://doi.org/10.9734/bpi/cbrp/v5/4863>, ISBN: 978-93-49729-89-6, eBook ISBN: 978-93-49729-51-3, BP International, Romania
4. Voica, C., Roba, C., **Iordache, A.M.**, 2024. Health Risk Assessment of Heavy Metals in Selected Root Vegetables. *Innovations in Biological Science Vol. 3*, 50–64. <https://doi.org/10.9734/bpi/ibs/v3/3428G>
5. Voica, C., Cristea, G., **Iordache, A.M.**, 2023. Metal content and stable isotope determinations in daily food from the Romanian Market", in book "Current Perspectives in Agriculture and Food Science", 3(1-17), Editor Publisher Book Publisher International; Edited by Dr. Muhammad Shehzad, India, DOI 10.9734/bpi/cpafs/v3/5113E, ISBN: 978-81-19217-13-7 (Print); 978-81-19217-15-1 (eBook), Editura Publisher International.
6. Șuvar, N.S., **Iordache, A.M.**, Nechita, C., Mesaroș, C., Podea, P., Culea, M., 2021. *Studii asupra unor compuși biologici și toxici prin metode spectroscopice*. Editura Presa Universitară Clujeană. ISBN-978606-37-1165-7.
7. Voica, C., **Iordache, A.M.**,*, Ionete, R.E., Ștefănescu, I., 2017. Aspects on the accumulation of trace metals in various environmental matrices (Water, Soil, Plant and Sediments): Case study on catchment are of the Somes River, Romania, *Water Quality*, chapter 12, page 269-291, Book edited by Hlanganani Tutu, ISBN 978-953-51-2882-3, print ISBN: 978-953-51-2881-6. <http://dx.doi.org/10.5772/65700>
8. Voica, C., Feher, I., **Iordache, A.M.**, 2019. Evaluation of Metal Concentration in Herbal Tea Beverages by ICP-MS and Chemometrics Techniques, Chapter 6, Book *Quality Control in the Beverage Industry*, Pages 205-224, i, 1st Edition, Volume 17: *The Science of Beverages*, Editors: Alexandru Grumezescu, Alina-Maria Holban, Woodhead Publishing – Elsevier, Paperback ISBN: 9780128166819, eBook ISBN: 9780128166826, Imprint: Academic Press, Romania <https://doi.org/10.1016/B978-0-12-816681-9.00006-0>
9. **Iordache A.M.**, Culea, M., Mesaroș, C., Ștefănescu, I., 2012. Aplicații biomedicale și ecologice prin spectrometrie de masă”, Editura Risoprint, Cluj-Napoca, ISBN 978-973-53-0784-4, 543.421.
10. Mesaros. C., Culea, M., **Iordache, A.M.**, Diagnosticare prin GC-MS, Editura Risoprint, Cluj-Napoca, ISBN: 978-973-53-0762-2, 543.544, 2012.

Patente

1. **Iordache, A.M.**, Zgavaroșea, I.R., Ionete, E.R., Ionete, I.E., Spiridon, I.S., "Celulă de separare electrochimică", OSIM, no. CBI nr. A/00238/2025; BOPI 10/2025
2. **Iordache, A.M.**, Zgavaroșea, R.I., Nasture, A.M., Ionete, E.I., Chițu, A., Niculescu, V.C., Ionete, R.E., "Instalație modulară automatizată în cascadă pentru separarea izotopică a litiului prin electromigrare cu cristalizare controlată", CBI nr. A/00230/23.04.2026

Articole ISI

1. Koç İ., Sevik, H., Nechita, C., Canturk U., **Iordache A.M.**, Camarero J.J., 2026. *Selenium bioaccumulation in industrialized urban forests: case study of five tree species used for phytoremediation*. Urban Ecosystems, 29, 73. doi.org/10.1007/s11252-026-01935-3 (IF2.4; Q2) [WOS:001702843000005]
2. Man, G.T., **Iordache, A.M.**, Popescu, D.I., Zgavarogea, I.R., Sutan, N.A., 2026. *Thorium Valorization at the Interface of Technology, Risk, and Sustainability*, Toxics, 14(3) 193, doi.org/10.3390/toxics14030193 (IF4.1; Q1) [WOS:001725259600001]
3. Nechita, C., **Iordache, A.M.**, Roba, C., Pluhacek, T., Koc, I., Ionete, R.E., Camarero, J.J., 2026. *Nutrient imbalances caused by industrial pollution were not affected by extreme climate events*. Journal of Hazardous Materials Advances, 21, 101071, doi.org/10.1016/j.hazadv.2026.101071 (IF7.7; Q1)
4. Voica, C., Ioana, F., Romulus, P., **Andreea, M.I.**, Cristea, G., 2025. *Elemental and Isotopic Fingerprints of Potatoes*, Foods, 14(14), doi.org/10.3390/foods14142440 (IF5.1; Q1) [WOS:001535713200001]
5. Nechita, C., **Iordache, A.M.**, Roba, C., Apetri, A.N., Camarero, J.J., 2025. *Non-linear relationships between climate and toxic metals in stressed polluted areas*. Environmental Research, 287, 123124, [DOI: 10.1016/j.envres.2025.123124](https://doi.org/10.1016/j.envres.2025.123124) (IF7.7; Q1) [WOS:001599016100001]
6. Nechita, C., **Iordache, A.M.**, Pluhacek, T., Gregar, F., Camarero, J.J., 2025. *Hazardous metals coupled with increasing summer diurnal temperature range contributed to growth decline of two oak species in a heavily industrialized area*, Journal of Hazardous Materials, 496, 139519, [DOI:10.1016/j.jhazmat.2025.139519](https://doi.org/10.1016/j.jhazmat.2025.139519) (IF11.3; Q1) [WOS:001585552800003]
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Indici

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Articole
indexate B+

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Director proiect cercetare stiintifică

1. **Contract no. 20N/2023 (2023-2026) – "Dezvoltarea tehnologiei inovative de separare a izotopilor litiului prin electromobilitate și algoritmi de inteligență artificială",** acronim: ISO-Li. Valoare: 6.940.000 Lei. Perioada derulată 05.1.2023-24.11.2026.
2. **Contract de servicii no. 5330/17.05.2022 – "Servicii pentru etalonare și umplere canistre cu etaloane de apă grea".** Valoare: 199524. Perioada 2022.
3. **Contract no. 626/24.05.2021 – "Servicii de analize de mediu"** Valoare 86.400 Lei (Fara TVA). Perioada 2021.
4. **Contract de servicii și furnizare 41/25.01.2019.** "Servicii pentru etalonare și umplere canistre cu etaloane de apă grea". Valoare: 179578 Lei (fără TVA). Perioada derulată 2019.
5. **PN ctr. Nr. 9N – "Tehnici avansate pentru identificarea surselor de contaminare și a reacțiilor biochimice în ecosistemele acvatice"** Valoare: 8.600.000 Lei. Perioada derulată 16.04.2019-14.04.2022.
6. **PN ctr.1N/2018 – "Evaluarea impactului deversărilor de ape uzate asupra mediului prin investigații analitice avansate bazate pe tehnici nucleare și conexe"** 2018. Valoare: 2.500.000 Lei. Perioada derulată 04.01.2018-10.12.2018
7. **Ctr. 32-127/2008 Proiect PNII – "Determinarea mecanismului prin care poluanți la nivel de urme, organici și anorganici, cu potențial toxic, pot pătrunde în apele care alimentează mari aglomerări urbane din județele Cluj și Sălaj"** 2008-2011. Valoare: 1.940.900 Lei. Perioada derulată 2008-2011.
8. **Ctr. 1376/2015 – "Servicii de etalonare și umplere canistre cu etaloane de apă grea"** 2016-2019, *Responsabil contract de servicii și furnizare.* Valoare 198.000 Lei. Perioada derulată 2008-2011.

Colaborator proiect cercetare stiintifică

1. **PN ctr. 19N/2009 – "Investigatii teoretice si experimentale privind dezvoltarea de membrane compozite utilizate la purificarea de combustibili conventionali/ biocombustibili gazosi",** 2015, Colaborator
2. **PN ctr. 19N/2009 – "Cercetari privind aplicarea metodelor de analiza izotopica si multi-element in vederea definirii autenticitatii si clasificarii geografice a vinurilor romanesti",** 2009-2011, Persoana cheie -participare realizare proiect
3. **PN ctr. 19N/ 2009 – "Cercetari privind dezvoltarea de metode de control al unor contaminanti si aditivi in alimentatie",** 2-015, Persoana cheie -participare realizare proiect
4. **PN Crt. 1N/2018 – "Cercetări privind dezvoltarea de metode analitice avansate de investigare a produselor alimentare ecologice de origine vegetală sau animală",** 2018, Persoană cheie-participare realizare proiect
5. **PN Ctr. 19N/ 2009 – "Evaluarea impactului antropoc asupra mediului inconjurator prin investigatii asupra poluantilor din aer, apa, sol si compararea cu o zona protejata de Parc National",** 2009-2011, Persoana cheie -participare realizare proiect
6. **PN ctr. 13N/2006 – "Dezvoltarea unui sistem de urmarire a influentei compusilor organici volatili in controlul calitatii alimentelor, conform standardelor UE",** 2006-2008, Colaborator
7. **Ctr. ID 501/2007 PNCDI II – "Studii spectroscopice si teoretice pe sisteme moleculare complexe de interes biomedical",** 2007-2009, Persoana cheie -participare realizare proiect
8. **Ctr. 61002/2007 PNCDI II – "Obtinerea și caracterizarea de noi medicamente –țintă cu substanța activă de natura naftochinonica",** 2007-2010, Persoana cheie -participare realizare proiect
9. **Ctr. Biotech/ 86/2006 CEEX – "Aplicarea tratamentului cu fascicule de electroni accelerati in vederea decontaminarii microbiene a suplimentelor nutritive din catina",** 2006-2008, Persoana cheie-participare realizare proiect
10. **Ctr. Viasan/ 166/2006 CEEX – "Cercetari privind diagnosticare si control utilizand biomarkeri (BioMarkDiag)",** 2006-2008, Persoana cheie-participare realizare proiect
11. **Ctr. 1311/2006 CNCSIS – "Studii privind controlul, autentificarea si monitorizarea unor nutrienti si**

- contaminanti", 2006-2008, Persoana cheie -participare realizare proiect
12. **Ctr. 52162/2008 Proiect PNII** — "Definirea profilului aromatic al vinurilor din soiuri autohtone prin tehnici izotopice IRMS si gaz cromatografice, ca element de autentificare a acestor produse pe piata europeana", 2008-2011, Colaborator
 13. **Ctr. 52140/2008 Proiect PNII** — "Trasabilitatea alimentelor utilizând metode izotopice. Studiu de caz: mierea si vinul (IZOTRAS)", 2008-2011, Persoana cheie – participare realizare proiect
 14. **Ctr.52158/2008 Proiect PNII** — "Cercetări de identificare și de valorificare a bioformelor de Trichogramma din agro-și silvo-ecosisteme, impactul și managementul introducerii nanomateriale bioactive în tehnologia de înmulțire a oofagului", 2008-2011, Colaborator
 15. **Ctr. 31021/2007 PNC DI II** — "Sistem informatic fuzzy de simulare si evaluare a scenariilor de risc tehnologic si ecologic si a modurilor de actiune in contextul schimbarilor climatice", 2007-2010, Colaborator
 16. **Proiect PN** — "Implementarea metodelor de analiza prin GC/MS a urmelor de pesticide si analiza izotopica a apei potabile, in vederea consolidarii aquis-ului comunitar de mediu in Romania", 2006-2008, Colaborator
 17. **Proiect international POST-UP CZ.1.07/2.3.00/30.0004** — "*Support for the creation of excellent research teams and intersectoral mobility at Palacký University in Olomouc, Palacky University, Faculty of Science, Czech Republic*" 2012-2015, Persoana cheie-participare realizare proiect internațional -mobilitate.

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ANEXE

Se vor furniza la cerere.

15 April 2026

Andreea Maria IORDACHE