



**Informatii personale**

Prenume / Nume

**TEBRENCU (HUMELNICU) CARMEN ELENA**

Adresa

Str. Hangului nr.11, 610025 Piatra Neamt, jud.Neamt, Romania

Telefoane

0040-333-40 78 22

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0040-233-210 308

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[carmen.tebrencu@yahoo.com](mailto:carmen.tebrencu@yahoo.com)

Nationalitate

Română

Data nasterii

20.03.1958

Gen

feminin

**Domeniul ocupațional**

Inginerie chimică/ Tehnologie farmaceutică/ Cercetare științifică

**Experiență de muncă**

Date

**octombrie 2012- in prezent**

Funcția sau postul ocupat

**Cercetator senior gradul II (CS II), Manager R&D**

Principalele activități și  
responsabilități

Dezvoltare, implementare și proiecte de cercetare în derulare

- Manager de proiect / Partener de proiect responsabil științific: 11 proiecte
- Cercetator (CS II)/ Specialist proiect: 30 proiecte

Activitate de cercetare:

- Studiul fitochimic al speciilor de plante;
- Exploatarea plantelor medicinale indigene cu utilizare în diferite afecțiuni;
- Extracția metaboliților vegetali: ex.: carotenoide, fitosteroli, saponozide polifenoli, monoterpene, flavone etc.;
- Selectarea metodelor de extracție, determinarea parametrilor optimi la aplicarea de procese de extracție (conventionale și neconventionale) pentru obținerea de extracte bogate în principii active;
- Dezvoltarea de tehnologii originale, moderne și superioare, ecologice pentru prelucrarea plantelor medicinale;
- condiționarea extractelor vegetale în vederea asigurării calității și stabilității acestora;
- Dezvoltarea de bioproduse standardizate, eficiente și sigure; dezvoltarea de produse pentru prevenirea și tratarea bolilor care afectează sănătatea umană pe bază de plante medicinale, legume, fructe, cereale și produse apicole

Președintele Consiliului Tehnico-științific al SC CCPPM Plantavorel SA Piatra Neamț

Activități de management al compartimentului de cercetare:

- planificarea și urmărirea cercetării;
- coordonarea activității de cercetare
- Dezvoltare de lucrări științifice, brevete
- Participarea la întâlniri științifice naționale și internaționale

Numele și adresa angajatorului	Centrul de Cercetare si Prelucrare a Plantelor Medicinale "PLANTAVOREL" S.A. Str. Cuza-Voda Nr 46,, 610019, Piatra-Neamt, jud. Neamt, Romania Tel.: +40 233210308 Fax.: +40 233210308 Website : <a href="http://www.plantavorel.ro/ro/index.php">http://www.plantavorel.ro/ro/index.php</a>
Tip de activitate sau sector	Activitate de cercetare a plantelor medicinale Prelucrarea plantelor medicinale și aromatice, a produselor vegetale, a cerealelor și a produselor stu pului. Producția de medicamente din plante, suplimente alimentare, cosmetice și de uz balnear
Date	<b>mai 2004- octombrie 2012</b>
Funcția sau postul ocupat	<b>Cercetator senior gradul II (CS II), Director Tehnic</b>
Principalele activități și responsabilități	Dezvoltare, implementare și proiecte de cercetare în derulare - Manager de proiect / Partener de proiect responsabil științific: 4 proiecte - Cercetator (CS I)/ Specialist proiect : 15 proiecte <b>Activitate de cercetare:</b> <ul style="list-style-type: none"> <li>• Studiul fitochimic al speciilor de plante;</li> <li>• Exploatarea plantelor medicinale indigene, folosind diferitele tipuri de boli;</li> <li>• Extracția metaboliților vegetali: ex.: carotenoide, fitosteroli, saponozide polifenoli, monoterpene, flavone etc.;</li> <li>• Selectarea metodelor de extracție, determinarea parametrilor optimi pentru obținerea de defasurare a extractelor proceselor extractive bogate in principii active;</li> <li>• Dezvoltarea unei tehnologii originale, moderne si superioare ecologic pentru a permite prelucrarea plantelor medicinale;</li> <li>• Condiționarea extracte pentru asigurarea stabilitatii principiilor active;</li> <li>• Dezvoltarea de bioproduse standardizate, eficiente si sigure; dezvoltarea de produse pentru prevenirea și tratarea bolilor care afectează sănătatea umană pe bază de plante medicinale, legume, fructe, cereale și produse apicole</li> </ul> <p>Membru al Consiliului tehnico-științific al SC CCPPM Plantavorel SA Piatra Neamt Membru al organizației Comitetului Științific la:</p> <ul style="list-style-type: none"> <li>- "4th Conference on Medicinal and Aromatic Plants of South-East European Countries", 28-31 May 2006, Iasi, Romania</li> <li>- „Simpozionului Plante Medicinale- Prezent si Perspective” 2007, Piatra Neamt</li> </ul> <p>Membru al Comisiei de doctorat, Politehnica Bucuresti/ Fac. Chimie industrială, 2009</p> <p>Activitati de management Compartiment tehnic:</p> <ul style="list-style-type: none"> <li>- planificarea si urmarirea productiei;</li> <li>- coordonarea notificarii suplimentelor alimentare</li> </ul> <p>Elaborarea de lucrări științifice, brevete Participarea la întâlniri științifice naționale și internaționale</p>
Numele și adresa angajatorului	<b>Centrul de Cercetare si Prelucrare a Plantelor Medicinale</b> "PLANTAVOREL" S.A.No 46, Cuza-Voda Street, 610019, Piatra-Neamt, Neamt County, Romania Tel.: +40 233210308 Fax.: +40 233210308 Website : <a href="http://www.plantavorel.ro/ro/index.php">http://www.plantavorel.ro/ro/index.php</a>
Tip de activitate sau sector	Activitate de cercetare a plantelor medicinale Prelucrarea plantelor medicinale și aromatice, a produselor vegetale, a cerealelor și a produselor stu pului. Producția de medicamente din plante, suplimente alimentare, cosmetice și de uz balnear
Date	<b>iulie 1994 – mai 2004</b>
Funcția sau postul ocupat	<b>Cercetator senior gradul II (CS II), Sef Sectie Extractie</b>

Principalele activități și responsabilități	<p>Dezvoltare, implementare și derulare proiecte de cercetare</p> <ul style="list-style-type: none"> <li>- Manager de proiect / Responsabil stiintific proiect Partener : 3 proiecte</li> <li>- Cercetator ( CS II)/ Specialist proiect : 7 proiecte</li> <li>- Coordonarea activitatii de cercetare a extractelor de plante</li> <li>- Cercetări privind extracția selectivă a principiilor bioactive de origine vegetală</li> </ul> <p>Membru in Consiliul tehnico-stiintific al SC CCPPM Plantavorel SA Piatra Neamt</p> <p><b>Managementul și activitățile de cercetare in cadrul Sectiei EXTRAȚIE</b></p> <ul style="list-style-type: none"> <li>- Optimizarea procesului de extracție solid-lichid a extracției principiilor active din plante medicinale și aromatice;</li> <li>- Îmbunătățirea tehnologiilor de extracție existente;</li> <li>- Fabricarea de extracte fluide, tincturi si extracte uscate pulbere;</li> <li>- Producerea de extracte standardizate de principii active utilizate ca materii prime în fabricarea produselor de origine vegetală</li> <li>- Obținerea utilizării biocomplecsi în fitoproduse nutriționale, cosmetice și de protecție</li> </ul>
Numele și adresa angajatorului	<p>Elaborare lucrări științifice, brevete</p> <p>Participarea la întâlniri științifice naționale și internaționale</p> <p>Centrul de Cercetare si Prelucrare a Plantelor Medicinale "PLANTAVOREL" S.A. Str. Cuza-Voda Nr 46,, 610019, Piatra-Neamt, jud. Neamt, Romania Tel.: +40 233210308 Fax.: +40 233210308 Website : <a href="http://www.plantavorel.ro/ro/index.php">http://www.plantavorel.ro/ro/index.php</a></p>
Tip de activitate sau sector	Cercetare științifică și producție de extracte din plante (materii prime vegetale pentru fabricarea suplimentelor și medicamentelor din plante și produse aromatice, finite – tincturi, extracte fluide)
Date	<b>decembrie 1983- iulie 1994</b>
Funcția sau postul ocupat	<b>Inginer chimist, Cercetator ( CS/CS III), Sef Laborator Operatii Unitare</b>
Principalele activități și responsabilități	<p>Activitate de cercetare, dezvoltare, implementare și proiecte de cercetare în derulare</p> <ul style="list-style-type: none"> <li>- Studierea procesului de uscare a materialului în vrac</li> <li>- Studii cinetice si hidrodinamice pentru uscare <ul style="list-style-type: none"> <li>- Procedee de purificare avansata</li> <li>- Extractia lichid-lichid</li> <li>- Prelucrarea reziduurilor de la fabricarea granulelor poliamidice</li> <li>- Proiectare echipamente chimice</li> </ul> </li> </ul>
Numele și adresa angajatorului	<p>Centrul de Cercetare pentru Fibre Sintetice ( azi SC ICEFS COM ) Str. Uzinei nr.1, 617410, Savinesti jud.Neamt Romania Tel.: +40 233281690 Fax.: +40 233281680 Website: <a href="http://www.icefs.ro/contact.htm">http://www.icefs.ro/contact.htm</a></p>
Tip de activitate sau sector	Cercetarea si prelucrarea fibrelor sisntetice
Date	<b>august 1982- december 1983</b>
Funcția sau postul ocupat	<b>Inginer tehnolog</b>
Principalele activități și responsabilități	Monitorizarea și controlul producției de caprolactamă
Numele și adresa angajatorului	<p>Centrul de Cercetare pentru Fibre Sintetice ( azi SC ICEFS COM ) Str. Uzinei nr.1, 617410, Savinesti jud.Neamt Romania Tel.: +40 233281690 Fax.: +40 233281680 Website: <a href="http://www.icefs.ro/contact.htm">http://www.icefs.ro/contact.htm</a></p>
Tip de activitate sau sector	Activitate de productie

## Educație și dezvoltare

Date **Octombrie 2004- iunie 2005**

Titlul calificării acordate  
Domenii principale / calificări  
ocupationale acoperite

Master tehnologia farmaceutică industrială

Tehnologia farmaceutică; Chimie terapeutică; Farmacologie; Controlul și  
Calitatea medicamentelor; Legislația farmaceutică

Numele și tipul organizației  
care oferă educație și  
formare

Competență în tehnologie farmaceutică industrială

Nivel de clasificare națională  
sau internațională

ISCED5

Dates

**Martie 2001**

Titlul calificării acordate  
Domenii principale / calificări  
ocupationale acoperite

**Cercetător principal ( CSII) / cercetator certificat CS II**

Numele și tipul organizației  
care oferă educație și  
formare

Metode și tehnici de extracție a principiilor active ale plantelor medicinale și aromatice Studii  
fitochimice

Centrul de Cercetare și Prelucrare a Plantelor Medicinale "PLANTAVOREL" S.A.

Str. Cuza-Voda Nr 46,, 610019, Piatra-Neamt, jud. Neamt, Romania Tel.: +40 233210308

Fax.: +40 233210308

Website : <http://www.plantavorel.ro/ro/index.php>

Universitatea "Al I. Cuza "Iasi

Nivel de clasificare națională  
sau internațională

ISCED5

Dates

**Noiembrie 1998**

Titlul calificării acordate  
Domenii principale / calificări  
ocupationale acoperite

**Doctor în Știință / Chimie / Operații unitare în industria chimică**

Numele și tipul organizației care  
oferă educație și formare

Transfer de masă / Transfer de căldură / Operații unitare

Specializare Operații unitare

Nivel de clasificare națională  
sau internațională

Teza: " Procedee intensive de uscare a materialelor granulare și pulverulente"

Universitatea Politehnică din București, România

ISCED6

Dates

**Septembrie 1977- iunie 1982**

Titlul calificării acordate  
Domenii principale / calificări  
ocupationale acoperite

Inginer mecano-chimic

Numele și tipul organizației care  
oferă educație și formare

Universitatea Politehnică din București, România / Facultatea de Utilaje și Ingineria Proceselor  
chimice

Nivel de clasificare națională  
sau internațională

ISCED5

## Abilități și competențe personale

Limba maternă

Romana

Alte limbi. Autoevaluare la nivel  
European (\*)

Franceza

Engleza

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	B1	Independent user	B1	Independent user
B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B2	Independent user

(\*) Common European Framework of Reference for Languages

Competențe și abilități sociale	Abilități foarte bune de comunicare. Munca în echipă
Abilitati si competente organizatorice	Capacitate de coordonare și formulare a strategiilor și procedurilor care guvernează activitatea realizată de (Director Tehnic, membru al Consiliului Științific Tehnic CCPPM Plantavorel Piatra Neamț SC) Managementul proiectelor și munca în echipă dobândită prin conducerea echipelor pentru realizarea proiectelor de cercetare
Abilități și competențe tehnice	Studii fito-chimice Extragerea și separarea principiilor active Tehnici de extracție în sistemul solid-lichid și lichid-lichid Formulări de preparate pe baza de produse vegetale Condiționare in forme farmaceutice Managementul și optimizarea procesului de extracție a ingredientelor active din plante (plante medicinale și aromatice, cereale, legume, fructe, etc.) Studii asupra aparatelor (uscătoare, extractoare, filtre, mori de pulverizare) Studii de decontaminare a apelor uzate
Aptitudini și competențe informatice	Good mastery of Microsoft Office programs Word, Microsoft Office Excel, Microsoft Office PowerPoint, Corel Draw, Internet explorer, Outlook Express, Adobe Acrobat
Permis de conducere	Categoria B
Additional information	<p><b>Bursa de cercetare</b> TUBORG, 2002 – finanțata de programele de burse în protecția mediului acordate de Tuborg, România și Asociația Balcanică pentru Protecția Mediului: Martie-Noiembrie 2002, cu titlul: "Studiul apelor reziduale tehnologice obținute în extracția principiilor plantelor active"</p> <p><b>Premii</b> pentru contribuții științifice/ profesionale / nationale/internationale:</p> <p>« Medalie de argint – EUREKA 1999, the 48th Salon international de l'Innovation, from recherche nouvelle et des Technologies », Bruxelles, for inventions:</p> <p>1 Produs alimentar natural cu actiune hipolipemianta -DIETT;</p> <p>2. Produs natural din plante cu activitate hipoglicemiante</p> <p>Premiul I – Program BIOTECH, acordat de Autoritatea Națională pentru Programul de Cercetare Științifică, 2005, Bucuresti, Romania</p> <p>Premiul I- Program BIOTECH pentru proiectul: "Biocomplex cu rol bioactiv în susținerea circulației periferice", 2006, Bucuresti, Romania</p> <p>Premiul TEVA 2014- POSTER PREMIAT la conferinta internationala FITOCHIMIE IN MEDICINA SI FARMACOGNOZIE, 27-30 APRILIE 2014, PIATRA-NEAMT, ROMANIA, pentru:- P42 – TEBRENCU CARMEN, CRETU RUXANDRA, MITROI GABRIELA, IACOB ELENA, IONESCU ELENA. Extracția compușilor antrachinonici din <i>Rhamnus frangula</i> L. (fam. Rhamnaceae) – studiu preliminar pentru utilizarea lor ca agenți antipatogenici, Book of Abstracts of Phytochemical Society of Europe Meeting, Phytochemicals in Medicine and Pharmacognosy, p. 85.</p> <p>ARTICOL PREMIAT pe platforma electronică UD/Manager/Program Ressurse Umane _ "Premierea Rezultatelor Cercetarii – Articole</p> <ul style="list-style-type: none"> <li>– 2015 cu numar de inregistrare PN-II-RU-PRECISI-2015-9-9192</li> <li>– 2018 cu numar de inregistrare PN-III-P1-PRECISI-2018-25392</li> <li>– 2021 cu numar de inregistrare PN-III-P1-1.1- PRECISI-2021- 60874</li> </ul> <p><b>Experiență în programe/proiecte naționale:</b></p> <p>Director de proiect: 4proiecte ; Responsabil de proiect partener: 7 proiecte; Persoana cheie: 22 proiecte; Cercetatorr/specialist: 8 proiecte</p> <p>Experienta in proiecte internationale: 1 (ca Responsabil de proiect Partener)</p>

**Publicatii stiintifice:** peste 130

- Lucrari publicate / rezumate incluse in reviste ISI / Suplimente la reviste ISI cu IF:20 lucrari
- Lucrari publicate in reviste nationale si international indexate BDI:16 lucrari
- Lucrari publicate in reviste ISSN and ISBN: 5 lucrari
- Lucrari publicate in reviste /carte de rezumate ale întâlnirilor științifice naționale, cu ISBN și ISSN:15 lucrari
- Lucrări publicate în reviste sau cărți de rezumate ale întâlnirilor științifice internaționale, cu ISBN and ISSN: 44 lucrari
- Lucrări publicate în volume (CD) ale altor manifestări științifice internaționale:12 lucrari
- Rezumate/lucrări publicate în volume ale altor manifestări științifice naționale și/sau internaționale: 31 lucrari

**Brevete nationale:** 12 brevete si 7 cereri de brevet**Membru al asociațiilor științifice și profesionale:**

- Academy of Scientists from Romania - Associate Member
- Association for the Medicinal & Aromatic Plants of Southeast European Countries (AMAPSEEC)
- Society for Medicinal Plant Research, Austria
- Society of Chemistry in Romania
- Romanian Society of Cosmetic Chemists
- bioROne – the biotech cluster in NE Romania

**Referinte:**

Prof. Dr. Eng. Gheorghita Jinescu, Membru titular al Academiei de Științe Tehnice din România  
Universitatea POLITEHNICA Bucuresti, Romania

Dr. Eng. Elena Ionescu, Membru titular al Academiei Oamenilor de Știință din România, Director  
General SC CCPPM Plantavorel SA Piatra Neamt, Romania

**Anexe:**

1. CV Attachments:
2. List of publications
3. Experience in national programs/ projects:
4. National patents list

**ANEXA 1**  
**LISTA CU PUBLICATIILE STIINTIFICE**

**Teza:**

" *Procese intensive de uscare materiale granulare și pulberi* " / Conducător științific: Prof.dr.ing. GHEORGHITA JINESCU, POLITEHNICA București, Fac. Chimie Industrială, susținută în noiembrie 1998.

**Lucrări publicate / Rezumate incluse în reviste ISI / Suplimente ale revistelor ISI cu factor de impact**

1. ANA-LORENA NEAGUIS, ANAMARIA ZAHARIA, OCTAVIAN DUMITRU PAVEL, ALINA TÎRȘOAGA, IULIA ELENA NEBLEA, SORIN VIOREL DOLANA, **CARMEN ELENA ȚEBRENCU**, TANTA-VERONA IORDACHE, ANDREI SÂRBU AND RODICA ZĂVOIANU, **2023**. Supplementary Material: Synergistic Sustained Drug-Release System Based on Immobilized *Rhamnus frangula* L. Phytoextract into Layered Double Hydroxide Covered by Biocompatible Hydrogel, *Pharmaceutics*, 15, 1888. , **IF 2023 5,4**; <https://doi.org/10.3390/pharmaceutics15071888>
2. RĂDUCANU, A.E.; TIHĂUAN, B.-M.; MARINAȘ, I.C.; CIUPERCĂ, O.T.; **ȚEBRENCU, C.E.**; IONESCU, E.; ONISEI, T. **2021** The Biological Effects of Novel Nutraceuticals with Curcuminoids and Other Plant-Derived Immunomodulators and Pre-Probiotics. *Pharmaceutics*, 13, 666. <https://doi.org/10.3390/pharmaceutics13050666> **IF 2020 6,32**
3. CIUPERCĂ OANA TEODORA, **ȚEBRENCU CARMEN ELENA**, RĂDUCANU ADINA, POP ANCA LUCIA, ONISEI TATIANA **2020** Phytochemical Evaluation of Some Herbal Prebiotics and Their Potential Use in Food Supplements. In *Proceedings of the Inaugural Edition of the Virtual Congress with International Participation NUTRITION, DIET THERAPY & FOOD SAFETY IN THE CONTEXT OF THE COVID-19 - NutriTerra*; pp. 305–312.
4. OANA TEODORA CIUPERCA, **CARMEN ELENA TEBRENCU**, LILIANA LAZAR, IRINA VOLF **2020**. Kinetic Study on Solid-Liquid Extraction of Condensed Tannins from Rosa Canina Branches and Stems, *Revista de Chimie*, 71, 7, 153-161. <https://doi.org/10.37358/RC.20.7.8233>. **IF 2018-2019- 1,605**.
5. OANA TEODORA CIUPERCA, **CARMEN ELENA TEBRENCU**, ELENA IONESCU, ELENA IACOB, IRINA VOLF **2019**. Polyphenols investigation of branches of *Prunus spinosa* L. , *Revista de chimie*, 70(8):2897-2902, ISSN 0034-7752, **IF. 1,412**.
6. RACLARIU ANCUȚA CRISTINA, **TEBRENCU CARMEN ELENA**, ICHIM MIHAEL CRISTIN, CIUPERCA OANA TEODORA, BRYSTING, ANNE KRAG & DE BOER, HUGO, **2018**. What's in the box? Authentication of Echinacea herbal products using DNA metabarcoding and HPTLC. *PHYTOMEDICINE*, 44: 32- 38, **RG Journal Impact: 2.08; IF 2017/2018: 3,61**; ISSN 0944-7113, doi: [10.1016/j.phymed.2018.03.058](https://doi.org/10.1016/j.phymed.2018.03.058)
7. IONESCU ELENA, IORDACHE TANTA-VERONA, **TEBRENCU CARMEN ELENA**, CRETU RUXANDRA MIHAELA, FLOREA ANA-MIHAELA, RADU ANITA-LAURA, ZAHARIA ANAMARIA, SARBU ANDREI **2018**. Evaluating the content of active principles from wild *Hypericum perforatum* L. in various harvesting seasons. *REVISTA DE CHIMIE*, 69 (7):1892-1897, ISSN: 0034-7752, **IF 2017/2018:1,412**, <http://www.revistadechimie.ro/pdf/61%20IONESCU%20E%207%2018.pdf>
8. IONESCU ELENA, IORDACHE TANTA-VERONA, **TEBRENCU CARMEN ELENA**, CRETU RUXANDRA MIHAELA, FLOREA ANA-MIHAELA, ZAHARIA ANAMARIA, SARBU ANDREI **2018**. Development of single-step protocols for the separation of naphthodianthrones from *St. John's Wort* extracts. *REVISTA DE CHIMIE*, 69(8):2295-2299, ISSN: 0034-7752, **IF 2017/2018:1,412**, <http://www.revistadechimie.ro/pdf/73%20IONESCU%20E%208%2018.pdf>
9. PAUN GABRIELA, NEAGU ELENA, MOROEANU VERONICA, UNGUREANU OANA, CRETU RUXANDRA, IONESCU ELENA, **TEBRENCU CARMEN ELENA**, IONESCU ROBERTINA, STOICA ILEANA, RADU GABRIEL LUCIAN, **2017**. Phytochemical analysis and in vitro biological activity of *Betonica officinalis* and *Salvia officinalis* extracts. *ROMANIAN BIOTECHNOLOGICAL LETTERS*, vol. 22 (4): 12751-12761, ISSN: 1224-5984, **IF 2016: 0.404** [https://www.rombio.eu/vol22nr4/9\\_GL\\_Radu\\_Articol\\_RBL\\_Forma\\_finala.pdf](https://www.rombio.eu/vol22nr4/9_GL_Radu_Articol_RBL_Forma_finala.pdf)
10. **TEBRENCU CARMEN E.**, CRETU RUXANDRA M., MITROI GABRIELA R., IACOB ELENA, IONESCU ELENA. **2015**. Phytochemical evaluation and HPTLC investigation of bark and extracts of *Rhamnus Frangula* Linn. *Phytochemistry Reviews*. DOI 10.1007/s11101-015-9410-8. Online first: <http://www.springer.com/my+springer?SGWID=0-1716000-2004-653405-0>. Online ISSN 1572-980X. Print ISSN 1568-7767. Vol 14(4): 613-621. **IF 2014: 2,407**. <http://link.springer.com/article/10.1007/s11101-015-9410-8>

**Citations:**

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## ANEXA 2

### EXPERIENTA IN PROGRAME/PROIECTE NATIONALE/INTERNATIONALE

#### Director de proiect: 4 proiecte

1. **Project MEC – Research contract 169/1996-** “Research on elaboration of an extraction and standardization technology of alkaloids with steroid core from medicinal plants, intermediary for a pharmaceutical product with ruminal effect”- 1996-1997
2. **Project AMCSIT / RELANSIN - Research contract 585/2000-** „Modernization of manufacturing phyto-therapeutically products - installation pilot in order to obtain granulated products for balneary use,, 2000-2001 <http://www.inovare.amcsit.ro/2007/downloads/relansin.pdf?&wchk=2e79bb113437c7118f21e9c11292b722>
3. **Project VIASAN - Research contract 317/2003 –** “Evaluation of chemical Techirghiol mud factor action of chronic degenerative

pathology and inflammatory musculoskeletal"- <http://www.univ-ovidius.ro/cercetare/situatii%20proiecte/proiecte%202005.pdf>

4. **Project AGRAL Research contract 241/2003** –“Recovery Complex regional agro-tourism potential in line with sustainable rural development in Moldova Subcarpatii” <http://www.agral.usamv.ro/competitii/c3s8.htm>

#### Responsabil de proiect Partener : 8 proiecte nationale si 1 proiect international

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