

## Europass Curriculum Vitae



<b>Informații personale</b>	
Nume/Prenume	<b>CREȚU (PETRUȚ) RUXANDRA-MIHAELA</b>
Adresa	Str. Burebista nr. 7, bl. L4, sc. B, ap.22, 610035, Piatra Neamț, județul Neamț, România
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E-mail	<a href="mailto:ruxcretu@yahoo.com">ruxcretu@yahoo.com</a>
Naționalitate	Română
Data nașterii	02.10.1977
Gen	Feminin
<b>Domeniul ocupațional</b>	<b>Cercetaror stiintific gradul III, biologie, biochimice, fitochimie</b>
<b>Experiență</b>	
Perioada	<b>Septembrie 2016 - prezent</b>
Funcția sau postul ocupat	Cercetător științific, gradul III
Principalele activități și responsabilități	Studiul fitochimic al plantelor medicinale si aromatice; Evaluarea activitatii biologice a plantelor medicinale (activitatea antioxidanta); Extractia principiilor active din plantele medicinale si aromatice la faza de laborator; dozare instrumentala si chimica; Studii de extractie, conditionare; Elaborare propuneri de proiecte; Intocmire rapoarte științifice; Lucrări științifice; Materiale de prezentare; Participare la manifestări științifice interne și internaționale; Activitate de management (director de proiect, responsabil stiintific proiect); elaborare si transmitere cereri de oferte materii si materiale (reactivi, sticlaria, aparatura de laborator); intocmire raport de analiza cereri de oferta; elaborare si transmitere comenzi de materii si materiale.
Numele și adresa angajatorului	Institutul National de Cercetare-Dezvoltare pentru Stiinte Biologice-Bucuresti / CCB "Stejarul" Piatra Neamt
Tipul activității sau sectorul de activitate	Public
Perioada	<b>Iulie 2015 – august 2016</b>
Funcția sau postul ocupat	Cercetător științific (CS)
Principalele activități și responsabilități	Studiul fitochimic al plantelor medicinale si aromatice; Evaluarea activitatii biologice a plantelor medicinale (activitatea antioxidanta); Extractia principiilor active din plantele medicinale si aromatice la faza de laborator; dozare instrumentala si chimica; Studii de extractie, conditionare; Elaborare propuneri de proiecte; Rapoarte științifice; Lucrări științifice; Materiale de prezentare; Participare la manifestări științifice interne și internaționale; Activitate de management (director de proiect, responsabil stiintific proiect).
Numele și adresa angajatorului	Institutul National de Cercetare-Dezvoltare pentru Stiinte Biologice-Bucuresti / CCB "Stejarul" Piatra Neamt
Tipul activității sau sectorul de activitate	Public
Perioada	<b>Iulie – octombrie 2015</b>
Funcția sau postul ocupat	Cercetător științific (CS), biochimist

Principalele activități și responsabilități	Controlul microbiologic: materii prime vegetale, produse intermediare (pulberi, extracte, uleiuri), produse finite (suplimente alimentare, produse cosmetice). Coordonarea și desfășurarea activităților specifice Laboratorului de microbiologie.
Numele și adresa angajatorului	Societatea Comercială Centrul de Cercetare și Prelucrare Plante Medicinale "PLANTAVOREL" S.A. Str. Cuza-Vodă nr. 46, 610019, Piatra-Neamț, județul Neamț, România Tel./fax 0040- 233- 210 308 E-mail: <a href="mailto:plv@plantavorel.ro">plv@plantavorel.ro</a> Website : <a href="http://www.plantavorel.ro">http://www.plantavorel.ro</a>
Tipul activității sau sectorul de activitate	Cercetarea plantelor medicinale și aromatice Prelucrarea plantelor medicinale și aromatice, legume, fructe, cereale și produse apicole Producerea de suplimente alimentare, produse cosmetice și bălneare.
Perioada	<b>Ianuarie 2002- iulie 2015</b>
Funcția sau postul ocupat	Cercetător științific (CS), biochimist, șef laborator cercetare-dezvoltare
Principalele activități și responsabilități	<ul style="list-style-type: none"> <li>- Activitate de cercetare a plantelor medicinale și aromatice (analize fitochimice calitative și cantitative);</li> <li>- Studiul fitochimic al plantelor medicinale și aromatice; Evaluarea activității biologice a plantelor medicinale, pulberi, extracte, produse finite; Extractia principiilor active din plantele medicinale și aromatice la faza de laborator, micropilot și pilot; izolare; dozare instrumentală și chimică.</li> <li>- Controlul microbiologic: materii prime vegetale, produse intermediare (pulberi, extracte, uleiuri), produse finite (suplimente alimentare, produse cosmetice).</li> <li>- Studii de extracție, condiționare; Elaborarea de model experimental pentru metodă nouă, tehnologie, produs; Elaborarea documentației modelului funcțional; Proiectare model experimental/tehnologie de laborator; Execuție model experimental, tehnologie de laborator, variantă experimentală; Testarea modelului propus; Demonstrarea funcționalității modelului; Proiectarea și elaborarea documentației de analiză tehnică și economică; Specificații tehnice; Elaborarea documentației tehnice a metodei, tehnologiei și produsului; Obținerea de produse; Elaborarea documentației de avizare/reavizare produs; Elaborarea dosarului tehnic pentru avizare și validare; Elaborarea modelului de experimentare la fază pilot; Depuneri cereri de brevet; Elaborare propuneri de proiecte; Rapoarte științifice;</li> <li>- Lucrări științifice; Materiale de prezentare; Participare la manifestări științifice interne și internaționale.</li> <li>- Activitate de management (director de proiect, responsabil științific proiect).</li> <li>- Coordonarea și desfășurarea activităților specifice Laboratorului de cercetare-dezvoltare.</li> </ul>
Numele și adresa angajatorului	Societatea Comercială Centrul de Cercetare și Prelucrare Plante Medicinale "PLANTAVOREL" S.A. Str. Cuza-Vodă nr. 46, 610019, Piatra-Neamț, județul Neamț, România Tel./fax 0040- 233- 210 308 E-mail: <a href="mailto:plv@plantavorel.ro">plv@plantavorel.ro</a> Website : <a href="http://www.plantavorel.ro">http://www.plantavorel.ro</a>
Tipul activității sau sectorul de activitate	Cercetarea plantelor medicinale și aromatice Prelucrarea plantelor medicinale și aromatice, legume, fructe, cereale și produse apicole Producerea de suplimente alimentare, produse cosmetice și bălneare.
Perioada	<b>Septembrie 2013-august 2014</b>
Funcția sau postul ocupat	Lector specializările biochimie, embriologie și genetică
Principalele activități și responsabilități	Activitate didactică
Numele și adresa angajatorului	Scoala Postliceala Sanitara Piatra Neamt Str. Alexandru cel Bun nr. 19, cod 610004, Piatra Neamt, jud. Neamt Tel/fax: 0233-230182; <a href="http://www.spsnt.ro">www.spsnt.ro</a> ; e-mail: <a href="mailto:secretariat_pss@yahoo.com">secretariat_pss@yahoo.com</a> .
Tipul activității sau sectorul de activitate	Educație

Perioada	<b>Septembrie 2012-august 2013</b>
Funcția sau postul ocupat	Lector specializările biochimie, embriologie și genetică, chimia compusilor organici cu acțiune asupra sistemului nervos central, chimia compusilor anorganici cu acțiune farmaceutică.
Principalele activități și responsabilități	Activitate didactică
Numele și adresa angajatorului	Scoala Postliceala Sanitara Piatra Neamt Str. Alexandru cel Bun nr. 19, cod 610004, Piatra Neamt, jud. Neamt Tel/fax: 0233-230182; <a href="http://www.spsnt.ro">www.spsnt.ro</a> ; e-mail: <a href="mailto:secretariat_pss@yahoo.com">secretariat_pss@yahoo.com</a> .

Tipul activității sau sectorul de activitate	Educație
Perioada	<b>Octombrie 2000 – ianuarie 2002</b>
Funcția sau postul ocupat	Profesor de biologie
Principalele activități și responsabilități	Activitate didactică Participarea la competiții școlare
Numele și adresa angajatorului	Colegiul tehnic “Gheorghe Cartianu” Bulevardul Traian nr. 165, Piatra Neamț, județul Neamț, România Tel./fax: 0040- 233- 222 800 E-mail: <a href="mailto:CTCartianu@bluebottle.com">CTCartianu@bluebottle.com</a> Website: <a href="http://gscartianuhome.ro">http://gscartianuhome.ro</a>
Tipul activității sau sectorul de activitate	Educație
Perioada	<b>August 2000- Octombrie 2000</b>
Funcția sau postul ocupat	Chimist
Principalele activități și responsabilități	Cercetarea și producerea de vopsele apoase
Numele și adresa angajatorului	Societatea Comercială “KÖBER” S.A. Str. Uzinei nr. 2, Dumbrava Roșie, județul Neamț, România Tel.: 0040- 233- 281 021 Fax.: 0040- 233- 281 222 E-mail: <a href="mailto:office.savinessi@kober.ro">office.savinessi@kober.ro</a> Website: <a href="http://www.kober.ro">http://www.kober.ro</a>
Tipul activității sau sectorul de activitate	Produse de acoperire (vopsele, lacuri, emailuri) și rășini sintetice
<b>Educație și pregătire</b>	
Perioada	<b>Noiembrie 2003-iunie 2012</b>
Calificarea/diploma obținută	Doctor in Biologie; Diploma de Doctor Seria H Nr. 0018140, ca urmare a sustinerii tezei de doctorat in data de 08.06.2012 si in baza Ordinului Ministerului Educatiei, Cercetarii, Tineretului si Sportului nr. 6149 din 07.11.2012.
Principalele subiecte/domeniile ocupaționale acoperite	Genetică generală/genetică moleculară/biochimie
Numele și tipul instituției de învățământ	Universitatea “Al. I. Cuza” Iași, România Facultatea de Biologie Școala doctorală- Biologie
Nivelul de clasificare național și internațional	ISCED6
Perioada	<b>Octombrie 2001- Iunie 2003</b>
Calificarea/diploma obținută	Diplomă de master; nr. C/ 0017977
Principalele subiecte/domeniile ocupaționale acoperite	Controlul expresiei genice; biochimia moleculelor informaționale; metode de cercetare ale acizilor nucleici; mecanismul molecular al semnalizării celulare; biotehnologii în medicină și industrie; organisme transgenice; modelarea sistemelor biologice; tehnologia ADN-ului recombinant; alterări moleculare implicate în instabilitatea genomică; genetică moleculară umană și terapii genice; biologia moleculară a ciclului celular; evoluția genică.
Numele și tipul instituției de învățământ	Universitatea “Al. I. Cuza” Iași, România Facultatea de Biologie Master- Genetică moleculară
Nivelul de clasificare național și internațional	ISCED5
Perioada	<b>Octombrie 1996-Iunie 2000</b>
Calificarea/diploma obținută	Biolog; diplomă de absolvire nr. S/0047583
Principalele subiecte/domeniile ocupaționale acoperite	Chimie/bichimie anorganică; chimie analitică; chimie organică; biologie vegetală; biologie celulară; chimie fizică și coloidală; programare și modelare; biofizică; metabolismul glucidelor și lipidelor; structura proteinelor și acizilor nucleici; vitamine și hormoni; fiziologia plantelor; genetică moleculară; analiză instrumentală biomedicală; genetica microorganismelor; metabolismul aminoacizilor, proteinelor și acizilor nucleici; biochimie clinică; manipulare genetică; toxicologie biochimică; hematologie; metode de cercetare biochimice.

Numele și tipul instituției de învățământ	Universitatea "Al. I. Cuza" Iași, România Facultatea de Biologie Biochimie
Nivelul de clasificare național și internațional	ISCED5
Perioada	<b>Septembrie 1992-Iunie 1996</b>
Calificarea/diploma obținută	Bacalaureat; diplomă de absolvire nr. P/110896
Principalele subiecte/domeniile ocupaționale acoperite	Chimie, biologie, fizică
Numele și tipul instituției de învățământ	Colegiul Național "Petru Rareș", Piatra Neamț, România Specializarea chimie-biologie
Nivelul de clasificare național și internațional	ISCED 3

### Aptitudini personale și competențe

Limba maternă	<b>română</b>
Limbi străine	
Apresiasi personală	
<i>Nivel european (*)</i>	

	Înțelegere				Vorbire				Sciere	
	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
Engleză	B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent
Franceză	A2	Utilizator de bază	B1	Utilizator independent	A2	Utilizator de bază	A2	Utilizator de bază	A2	Utilizator de bază

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

<b>Aptitudini și competențe</b>	comunicare; lucru în echipă; seriozitate; corectitudine
Aptitudini și competențe organizaționale	Director la 2 proiecte, responsabil din partea partenerului la 3 proiecte.
Domenii de competență	Spectrofotometrie UV/VIS; Cromatografie pe strat subire înalt performanță (HPTLC); Cromatografie pe strat subțire (TLC); investigarea activității antioxidante a unor produse vegetale (DPPH); titrare iodometrică (vitamina C); Studii fitochimice asupra unor specii vegetale; extracția principalelor clase de principii active; analiza calitativă și cantitativă a principiilor active din plantele medicinale și aromatice (acizi polifenolcarboxilici, flavonoide, naftodiantrone, taninuri, antociani); Tehnici de extracție în sistem solid-lichid; studii privind obținerea unor extracte standardizate; obținerea unor produse (tablete, tincturi); studii asupra unor tehnici de condiționare: comprimare directă.
Competențe și aptitudini de utilizare a calculatorului	Office (Word, Excel, PowerPoint, CorelDraw, Publisher, Adobe) Navigare internet
Specializări și calificări	<u>Curs de limba engleză</u> : Cunoștințe generale de engleză, nivelul 2, gradul B, conform Cadrului European Comun de Referință pentru Limbi Străine, organizat de "Școala Română de Afaceri" a Camerelor de Comerț și Industrie Filiala Neamț, cu avizele Ministerului Educației și Cercetării - 268/1992, 5146/2000 și 70148/2004, octombrie 2007-februarie 2008, finalizat cu obținerea Pașaportului Lingvistic European. <u>Curs de Monitorizarea proiectelor din cadrul programului de perfecționare Management</u> , organizat de Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic (AMCSIT)-Politehnica București, Certificat nr. 78/150/4.03.2005.

Activitate științifică	<p>Experiența în programe naționale/proiecte: <b>36</b>; director de proiect: 2; responsabil științific din partea partenerului: 3; cercetător: 31.</p> <p>Experiența în programe internaționale/proiecte: <b>1</b> (cercetător)</p> <p><b>Publicații științifice: peste 75</b></p> <ul style="list-style-type: none"> <li>- Carte (1);</li> <li>- Lucrări publicate în jurnale internaționale cotate ISI cu Factor de Impact: 5; Abstracte incluse în suplimente ale jurnalelor cotate ISI cu Factor de Impact: 1; Lucrări publicate în jurnale naționale indexate B+ (BDI): 27; Lucrări publicate în volumele unor manifestări științifice naționale și internaționale cu ISBN și ISSN; Abstracte publicate în volumele altor manifestări științifice naționale și/sau internaționale</li> </ul> <p><b>Cereri de brevet naționale: 2.</b></p>
Informații suplimentare	<p><b>Membru al asociațiilor științifice și profesionale:</b></p> <p>Asociația Plantelor Medicinale și Aromatice ale Țărilor din Sud-Estul Europei ( AMAPSEEC) <b>(2006-2008; 2018-2020)</b></p> <p>Societatea Europeană de Fitochimie (Phytochemistry Society of Europe – PSE): <b>2018-2020.</b></p> <p><b>Member of Organizing Committee</b> of The 12th National Symposium with International Participation Medicinal Plants - present and perspectives (MAPPPS), Piatra Neamt, Romania, 6-9.09.2016.</p>
Anexe	<p><b>Anexa 1</b>-Lista publicațiilor științifice și participarea la manifestări științifice interne/internaționale;</p> <p><b>Anexa 2</b>-Experiența în programele naționale și internaționale/proiecte;</p> <p><b>Anexa 3</b>-Cereri de brevet naționale.</p>

Dr. CREȚU Ruxandra-Mihaela

## ANEXA 1 Lista publicațiilor

### ❖ Teza de doctorat:

“EFECTE CITOGENETICE SI BIOCHIMICE INDUSE DE TRATAMENTUL CU FITOPREPARATE PE BAZA DE COMPUSI FLAVONOIDICI LA *TRITICUM AESTIVUM* L.” – conducator stiintific: Prof. Univ. Dr. ION I. BARA (2003-2007), Prof. Univ. Dr. GOGU GHIORGHITA (2007-2012), Universitatea “Al. I. Cuza” din Iasi, Facultatea de Biologie; sustinuta public in 8 iunie 2012.

### ❖ Carti:

1. Gille E., **Cretu R.M.**, Stefanache C.P., Gavril G.L., Sidoroff M.E. (2020) *Medicinal and Aromatic Plants from the Wild Flora of Dobrogea (Romania)*. Tipografia Autograf, Piatra Neamt, 2020. Print ISBN 978-973-0-33115-8, Online ISBN 978-973-0-33284-1. [http://ccb-stejarul.ro/Medicinal%20and%20Aromatic%20Plants%20from%20the%20Wild%20Flora%20of%20Dobrogea%20\(Romania\).pdf](http://ccb-stejarul.ro/Medicinal%20and%20Aromatic%20Plants%20from%20the%20Wild%20Flora%20of%20Dobrogea%20(Romania).pdf)

### ❖ Lucrari publicate in jurnale internationale cotate ISI cu Factor de Impact: 4

1. Iancu I.M., Schröder V., Apetroaei M.R., **Cretu R.M.**, Miresan H., Honcea A., Iancu V., Bucur L.A., Mitea G., Atodiresei-Pavalache G. (2023) *Biocompatibility of Membranes Based on a Mixture of Chitosan and Lythri herba Aqueous Extract*. Applied-Sciences, 13(14): 8023. ISSN: 2076-3417 (IF 2.7; Q3). <https://doi.org/10.3390/app13148023>

1. Ionescu E., Iordache T.V., Tebrencu C.E., **Cretu R.M.**, Florea A.M., Radu A.L., Zaharia A., Sarbu A. (2018) *Evaluating the content of active principles from wild *Hypericum perforatum* L. in various harvesting seasons*. Revista de Chimie, 69 (7): 1892-1897. ISSN 2537-5733, ISSN-L 1582-9049 (IF 1.605; Q3). <http://www.revistadechimie.ro/pdf/61%20IONESCU%20E%207%2018.pdf>

**Citations:** <https://www.scopus.com/authid/detail.uri?authorId=56609345900>

[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=29&SID=F4SOUxun6eXBRrIFZbR&page=1&doc=9](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=29&SID=F4SOUxun6eXBRrIFZbR&page=1&doc=9); <https://scholar.google.com/citations?hl=ro&user=XAOu6dMAAAJ>

(1) Losada-Echeberria M., Naranjo G., Malouche D., Taamalli A., Barrajón-Catalán E., Micol V. (2023) *Influence of Drying Temperature and Harvesting Season on Phenolic Content and Antioxidant and Antiproliferative Activities of Olive (*Olea europaea*) Leaf Extracts*. Int. J. Mol. Sci., 24(1): 54. E-ISSN: 1422-0067 (IF 5.6; Q2). <https://doi.org/10.3390/ijms24010054>

(2) Su H.Y., Li J., Chen S.J., Sun P., Xing H., Yang D.L., Zhang X.N., Li M.F., Wei J.H. (2021) *Physiological and Transcriptomic Analysis Provide Insight into Low Temperature Enhancing Hypericin Biosynthesis in *Hypericum perforatum**. Molecules, 26(8): 2294. eISSN: 1420-3049 (IF 4.927; Q2). <https://doi.org/10.3390/molecules26082294>

(3) Yao, Y., Kang, T., Jin, L., Liu, Z., Zhang, Z., Xing, H., Sun, P., Li, M. (2019) *Temperature-dependent growth and hypericin biosynthesis in *Hypericum perforatum**. Plant Physiology and Biochemistry 139: 613-619. ISSN: 0981-9428 (IF 3.404; Q1). <https://doi.org/10.1016/j.plaphy.2019.04.012>. <https://www.sciencedirect.com/science/article/pii/S0981942819301469>.

(4) Derkach, T.M., Starikova, O.O. (2019) *Variation of chemical composition of medicinal herbs of different producers*. Journal of Chemistry and Technologies 27(1): 79-91. ISSN: 26632934. <https://doi.org/10.15421/091909> <http://chemistry.dnu.dp.ua/article/view/081909/175962>. <http://chemistry.dnu.dp.ua/indexing>

(5) Ionescu, E., Iordache, T.V., Tebrencu, C.E., **Cretu, R.M.**, Florea, A.M., Radu, A.L., Zaharia, A., Sarbu, A. (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 1.605; Q3). <https://revistadechimie.ro/pdf/73%20IONESCU%20E%208%2018.pdf>

2. Ionescu E., Iordache T.V., Tebrencu C.E., **Cretu R.M.**, Florea A.M., Zaharia A., Sarbu A. (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 2537-5733, ISSN-L 1582-9049. (IF 1.605; Q3). <http://www.revistadechimie.ro/pdf/73%20IONESCU%20E%208%2018.pdf>

3. Paun G., Neagu E., Moreoanu V., Ungureanu O., **Cretu R.**, Ionescu E., Tebrencu C.E., Ionescu R., Stoica I., Radu G. L. (2017) *Phytochemical analysis and in vitro biological activity of *Betonica officinalis* and *Salvia officinalis* extracts*. Romanian Biotechnological Letters, 22 (4): 12751-12761. ISSN: 1224-5984 (IF 0.321; Q4). <https://e-repository.org/rbl/vol.22/iss.4/9.pdf>

**Citations:** <https://scholar.google.com/citations?hl=ro&user=XAOu6dMAAAJ>

[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=29&SID=F4SOUxun6eXBRrIFZbR&page=2&doc=13](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=29&SID=F4SOUxun6eXBRrIFZbR&page=2&doc=13);

(1) Ungurean C., Carpa R., Campean R., Maior M.C., Olah N.K. (2020) *Phytochemical and microbial analyses of *Berberis* sp. extracts*. Romanian Biotechnological Letters, 25(6): 2132-2139. ISSN: 1224-5984 (IF 0.765; Q4). <https://www.e-repository.org/rbl/vol.25/iss.6/15.pdf>.

(2) Slapsyte, G., Dedonyte, V., Adomeniene, A., Lazutka, J.R., Kazlauskaitė, J., Ragazinskiene, O., Venskutonis, P.R. (2019) *Genotoxic properties of *Betonica officinalis*, *Gratiola officinalis*, *Vincetoxicum luteum* and *Vincetoxicum hirsutinaria* extracts*. Food Chem. Toxicol., 134, Article No: 110815. ISSN: 0278-6915. eISSN: 1873-6351. DOI: 10.1016/j.fct.2019.110815 (IF 3.775; Q1). <https://www.sciencedirect.com/science/article/pii/S0278691519306052>

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2. **Petrut Ruxandra**, Mihailescu Roxana, Ionescu Elena, Grigoras Nadia, Perta Lacramioara, Chiriac Maria, Mitroi Gabriela (2005) *Researches to obtain some phytotherapeutical products from flavonoidic compounds to treat menopausal osteoporosis. Note1. The quantitative and qualitative analysis of active principles.* Proceedings of the 12<sup>th</sup> Panhellenic Pharmaceutical Congress, May 14-16, Athena, Hellenic Republic, CD, paper no. PAO72. Poster presentation.

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12. Gherghel D., Rotinberg P., Mihai C.T., Ionescu E., Tebrencu C.E., Ciuperca O.T., **Cretu R.M.**, Vochita G. (2019) *The profile of some oxidoreductases under the action of different Ulmus glabra Huds. bark extracts in normal and tumor cells.* Book of Abstracts No.47, The

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15. Gille E., **Cretu R.M.**, Gavril G.L., Necula R., Grigoras V., Sidoroff M.E. (2016) *The evaluation of the biosynthetic potential of Hippophaë rhamnoides species from ecological culture*. Book of Abstracts of 9th Conference on Medicinal and Aromatic Plants of Southeast European Countries, 26-29 May 2016, Park Hotel Imperial Plovdiv, Bulgaria. PP31.

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- 35. Spiridon I., Cretu R., Teaca C.A., Bodirlau R. (2006) Bioactive compounds from vegetal extracts with potential therapeutic effect. Abstracts of the International Symposium "Chemistry priorities for a sustainable development", second edition, 26-27 October, Bucharest, p. 97.**
- 36. Cretu R., Floria F., Gille E., Mihailescu R. (2005) Phytobiological testing of Medicago sativa L., Glycine max L. and Trifolium pratense L. Extracts. Abstracts of the National Scientific Session „Biologia la inceputul secolului XXI”, 19- 20 November, "Alexandru Ioan Cuza" University of Iasi, Faculty of Biology. Poster presentation.**

❖ **Alte comunicari la manifestari stiintifice nationale: 6**

- Gille E., Necula R., Grigoras V., **Cretu R.M.**, Stefanache C.P. (2018) *Food supplements made in Romania with multiple benefits for human health.* The Scientific Session "Knowledge Transfer of the Research on Natural Products towards Industry for Human Health Benefits" within the project INTELBIOMED, organized by the National Institute of Research-Development in the Pathology Domanin and Biomedical Sciences "Victor Babes", 23 November 2018, Bucharest, Romania.
- Gille Elvira, Grigoras Valentin, **Cretu Ruxandra Mihaela**, Necula Radu, Bobit Dana, Gavril Georgiana Luminita (2017) *Ecological agriculture: basis for formulation of food supplements with multiple uses.* Conferinta Stiintifica cu participare internationala Agri-Food 2017, 11-13 mai, Sibiu, Romania.
- Gille Elvira, Necula Radu, Grigoras Valentin, Gavril Georgiana, Tebrencu Carmen, **Cretu Ruxandra (2017) Importanta plantelor medicinale si aromatice. Sărbătoarea plantelor medicinale și aromatice", 6 iulie 2017, Secuieni, Neamt.**
- Gille Elvira, Gavril Georgiana, **Cretu Ruxandra**, Necula Radu, Grigoras Valentin (2016) *Valorificarea biodiversității montane - resursa pentru obținerea unor suplimente alimentare și alimente funcționale cu utilizări multiple.* Conferința științifică și informală "Munții României - resurse și evoluție prin calitate" organizată de Centrul de Economie Montană – CEMONT, Vatra Dornei, Romania, 2.07.2016.
- Tebrencu Carmen E., Ionescu Elena, **Cretu Ruxandra (2015) Vegetal extracts with potential use in ecological agriculture. 2015 Spring Scientific Session "Science, knowledge, creativity", 3th Edition, Academy Romanian Scientists – Piatra Neamt Subsidiary, Academy of Agriculture and Forestry Sciences "Gheorghe Ionescu Șişești" Bucharest, Secuieni Agricultural Research Station, 25 March 2015, Secuieni, Romania.**
- Gille Elvira, Gavril Georgiana, Necula Radu, Grigoras Valentin, **Cretu Ruxandra (2015) Elaboration of some new food supplements formulas on basis of some medicinal and aromatic plants capitalization. Romanian Research Fair, 14-17 October 2015, Bucharest, Romania.**

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- Gille Elvira, Gavril Georgiana-Luminita, Necula Radu, Grigoras Valentin, **Cretu Ruxandra-Mihaela (2017) Utilizarea unor specii de PMA din flora spontana in obtinerea de suplimente alimentare utilizabile in fitoterapie. International Scientific Symposium "Conservation Of Plant Diversity", 5th Edition, 1-3 iunie 2017, Chisinau, Republica Moldova.**

**Participări la manifestări științifice internaționale (10)**

- **2020** - T20 PSE Conference Liverpool 2020, organized by the Phytochemical Society of Europe, in Liverpool, UK, 6th March 2020.
- **2020** - PSE e-Congress 2020: Plant Derived Natural Products as Pharmacological and Nutraceutical Tools, September 15, 18, 22, 25, October 6, 9, 13, 16 2020, Italy.
- **2018** – 10th Conference on Medicinal and Aromatic Plants of Southeast European Countries, May 20-24, Split, Croatia
- **2017** - 3rd International Conference on Natural Products Utilization: From Plants to Pharmacy Shelf (ICNPU-2017), 18-21.10.2017, Bansko, Bulgaria
- **2016** - The 12th National Symposium with International Participation Medicinal Plants - present and perspectives (MAPPPS2016), Piatra Neamt, Romania, 6-9.09.2016.
- **2015** – 2nd International Conference on Natural Products Utilization: From Plants to Pharmacy Shelf, 14 -17 October 2015, Plovdiv, Bulgaria.
- **2006**- IV Balkan Botanical Congress, 19-26 June, Sofia, Bulgaria.
- **2006**- The 4<sup>th</sup> Conference on Medicinal and Aromatic Plants of South- East European Countries, Iași, Romania, 28 -31 May, 48 EFC credits.
- **2005**- The 12<sup>th</sup> Panhellenic Pharmaceutical Congress, 14-16 May, Athena, Hellenic Republic.
- **2004**- The 8<sup>th</sup> European Congress of Magnesium, Cluj- Napoca, Romania, May 25-28, 16 EMC credits.

**Participări la manifestări științifice naționale (10)**

- **2016** - Faculty of Biology Annual Scientific Meeting, Iasi, Romania, 20-22.10.2016.
- **2015** – Simpozionul Științific al Institutului National de Cercetare Dezvoltare pentru Științe Biologice cu ocazia Inaugurării Centrului International de Studii Avansate pentru Sisteme Fluvii - Mari "DANUBIUS-RI", Murighiol, Tulcea, 23-24 septembrie 2015.
- **2011**- Simpozionul Național "Plante Medicinale-prezent și perspective", ediția a XI-a, 8-10 iunie, Piatra Neamț, și Sesiunea Științifică Anuală a INCDSB.
- **2007**- The Xth Edition of the National Symposium "Medicinal Plants- Present and Perspectives", Piatra- Neamt, June 06-08.
- **2007**- Simpozionul Național "Medicamentul- de la concepere până la utilizare", Ediția I, 30 mai- 1 iunie, Iași.
- **2006**- Salonul Cercetării București în cadrul Programului Național de Cercetare, octombrie.
- **2006**- Simpozionul BIOTECH – Rezultatele Cercetărilor biotehnologice românești în cadrul Planului Național de Cercetare Dezvoltare Inovare și perspective privind aplicarea lor.
- **2005**- Sesiunea Științifică Națională "Biologia la începutul secolului XXI", 19-20 noiembrie, Iași.
- **2004**- Lucrările celui de al X-lea Simpozion de Microbiologie și Biotehnologie, Iași, 15-16 octombrie.
- **2003**- The 8<sup>th</sup> National Symposium "Medicinal Plants- Present and Perspectives", Piatra-Neamt, Romania, August 28-29.

### Participări la conferințe invitate

- **2020** - Workshop „Advances in Phytochemical Analysis” organised by the Centre for Natural Products Discovery, the School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, 4-7 March, 2020. Participants: Gille E., Cretu R.M., Grigoras A.V., Stefanache C.P.
- **2017** - “Research in Germany’s” PhD and PostDoc Matchmaking event on the Romanian-Serbian Research Networking Tour 2017 in Bucharest, 25 September
- **2015** - Chin-Kun Wang, Prof. Dr., President, International Society for Nutraceuticals and Functional Foods  
Prof. & Former President, Chung Shan Medical University, Honorary President, Nutrition Society of Taiwan, 16-18 noiembrie 2015.  
*Traditional Chinese herbs – antiaging and cancer therapy.*
- **2015** - Adam Matkowski, Prof. Dr. hab., Department of Pharmaceutical Biology and Botany, Wrocław Medical University, Wrocław, Poland, 2-11 august 2015. *Danube Delta Ethnopharmacy.*

### Stagii de perfecționare:

- **2017** - Stagiul de perfecționare prin participarea la „10th International Workshop Metabolomics Basics and Applications to Plant Sciences”, 1-5 mai 2017, Universitatea Leiden, Olanda.
- **2016** - Departamentul de Biologie Farmaceutică și Botanică, Universitatea de Medicină din Wrocław (Polonia), sub îndrumarea Prof. Dr. Habilitat Adam Matkowski, șef de departament, perioada **20.03-09.04.2016**, pentru însușirea unor metode de analiză (GC-MS, testul AMES, activitatea antioxidantă, HPLC, PCR etc).

### Premii

- **2015** - THE TEVA AWARDS – PHYTOCHEMICAL IN MEDICINE AND PHARMACOGNOSY, 27-30 APRIL 2014, PIATRA-NEAMT, ROMANIA, pentru: *POSTER 42 - Extraction of anthraquinone compounds of Rhamnus frangula L. (fam. Rhamnaceae) – preliminary study for their utilization as anti-pathogenic agents*, Book of Abstracts of Phytochemical Society of Europe Meeting, Phytochemicals in Medicine and Pharmacognosy, p. 85.
- **2015** - Premiul rezultatelor cercetării – articole, pentru: 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>. ISSN 1572-980X. FI 2014: 2,407.  
<http://uefiscdi.gov.ro/articole/4240/Rezultate.html>  
[http://uefiscdi.gov.ro/userfiles/file/PREMIERE\\_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare\\_lista%20actualizat\\_a\\_3\\_12\\_2015.pdf](http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare_lista%20actualizat_a_3_12_2015.pdf), cod depunere PN-II-RU-PRECISI-2015-9-9192.

## ANEXA 2

### Experiența în programele naționale/proiecte

#### Director proiect- 2 proiecte:

- Contract nr. 2059/2004/Programul RELANSIN: “*Produs fitoterapeutic pe bază de compuși flavonoidici cu rol în tratarea osteoporozei de menopauză*”, 2004 – 2006;

Contract de finanțare 211/2003/Programul AGRAL: “*Optimizarea conținutului în nutrienți biodisponibili la Glycine max (soia) prin tratare cu fertilizatori vegetali*”, 2003 – 2005.

#### Responsabil proiect din partea partenerului: 3 proiecte

- Contract nr. 15/2005/CEEX-Proiecte complexe - AGRAL: “*Caracterizarea unor principii bioactive de origine vegetală și fungică cu acțiune citostatică, imunomodulatoare, metabolică și neurotropă și valorificarea lor în alimentația funcțională*”, 2005 – 2008;
- Contract nr. 31-061/2007/Programul 4 PARTENERIATE ÎN DOMENIILE PRIORITARE: “*Extracțe vegetale necontaminate utilizabile în fitoterapie obținute prin tehnologii neconventionale*”, (2007-2010) ; perioada 2007 – 2008.
- Contract nr. 154/2012/Programul PN II –PARTENERIATE ÎN DOMENII PRIORITARE: “*Materiale hibride de tip polimer-argila poroasă heterostructurată, destinate eliberării controlate a medicamentelor – DELPOCLAY*”, (2012-2015); perioada 2012 – iulie 2015.

#### Cercetător: 31 proiecte

- Contract nr. 1856/2003/Programul RELANSIN: “*Fitocomplex de acizi galici – materie primă pentru obținerea unui medicament în tratarea paratontozei*”, 2003 – 2005;
- Contract nr. 148/2006/CEEX - Proiecte complexe - RELANSIN: “*Structuri polimerice impregnate pentru recunoașterea moleculară a compușilor bioactivi din fitoextracte*”, 2006- 2008;
- Contract nr. 4118/2003/Programul CALIST: “*Metodă performantă și procedură asociată de măsurare a pesticidelor reziduale din produse vegetale medicinale*”, 2003 – 2005;
- Contract nr. 5137/2004/Programul CALIST: “*Metodă de control a stabilității fizice a emulsiilor prin determinarea unor proprietăți reologice*”, 2004 – 2006;
- Contract nr. 5114/2004/Programul CALIST: “*Metodă gazcromatografică rapidă de măsurare a uleiurilor volatile*”, 2004 – 2006;
- Contract nr. 241/2003/Programul AGRAL: “*Valorificarea complexă a potențialului de agroturism zonal în concordanță cu dezvoltarea rurală durabilă în Subcarpații Moldovei*”, 2003 – 2005;
- Contract de finanțare 3310/ 2003/Programul BIOTECH: “*Biopreparate cu acțiune antimicrobiană și antivirală utilizate în tratarea afecțiunilor cavității bucale*”, 2003 – 2005;
- Contract nr. 4690/ 2004/Programul BIOTECH: “*Preparate fitoterapeutice obținute prin biotehnologii vegetale, utilizabile în tratamentul unor afecțiuni endocrin-genitale*”, 2004 – 2006;
- Contract nr. 4694/ 2004/Programul BIOTECH: “*Obținerea unui biocomplex bioactiv cu rol în stimularea circulației periferice*”, 2004 – 2006;
- Contract nr. 21/2005/CEEX - Proiecte complexe - BIOTECH: “*Fitopreparate cu potențial antiaging obținute prin biotehnologii*”, 2005- 2008;
- Contract nr.77/2006/CEEX - Proiecte complexe - BIOTECH: “*Obținerea prin biotehnologii a unor preparate cu acțiune asupra sistemului neuro-imuno-cutanat*”, 2006- 2008;



- Contract nr. 317/2004/Programul VIASAN: „Evaluarea factorului chimic de acțiune a nămolului sapropelic de Techirghiol în patologia cronică degenerativă și inflamatorie a aparatului locomotor”, 2004 – 2006;
- Contract nr. 33/2007/Programul INOVARE: „Fitopreparate cu rol în contracararea unor dezechilibre metabolice”, 2007-2009;
- Contract nr. 61-039/2007/Programul 4- PARTENERIATE ÎN DOMENIILE PRIORITARE: „Biotehnologii pentru obținerea unor metaboliți vegetali utilizați în profilaxia și terapia ortomoleculară”, 2007-2010;
- Contract nr. 51-060/2007/Programul 4- PARTENERIATE ÎN DOMENIILE PRIORITARE: „Obținerea unor fitopreparate cu rol în profilaxia unor afecțiuni cardiovasculare”, 2007-2010;
- Contract nr. 51-0-55/2007/Programul 4- PARTENERIATE ÎN DOMENIILE PRIORITARE: „Strategii agro-silvice pentru valorificarea și conservarea biodiversității plantelor medicinale în contextul dezvoltării rurale durabile pe Valea Montană a Bistriței”, 2007-2010.
- Contract nr. 114/2012/Programul PN II –PARTENERIATE IN DOMENII PRIORITARE: “Materiale biopolimerice superabsorbante pentru utilizari agricole – SABIOM”, (2012-2015); perioada 2012 – iulie 2015.
- Contract nr. 117/2012/Programul PN II –PARTENERIATE IN DOMENII PRIORITARE: “Exploatarea resurselor florei spontane prin nanotehnologie in vederea obtinerii de concentrate de hipericina cu inalta bioactivitate – SPOFLORAHYP”, (2012-2015); perioada 2012 – iulie 2015.
- Contract nr. 74/2014/Programul PN II-PT-PCCA-2013-4-0791:”Dezvoltarea unui model functional de valorificare sustenabila a diversitatii genetice si fitochimice a populatiilor naturale de Arnica montana L. din nordul Carpatilor Orientali - ARMOREC”, (2014-2016); perioada 2014 – iulie 2015.
- Contract nr. 145/2014/Programul PN II-PT-PCCA-2013-4-0361:”Valorificarea superioara a sub-produselor si reziduurilor vegetale pentru a asigura exploatarea durabila a resurselor naturale - HIVEGRES”, (2014-2016); perioada 2014 – iulie 2015.
- Contract nr. 202/2014/Programul PN II-PT-PCCA-2013-4-0034:”Obtinerea prin metode biotehnologice a unor noi vectori pentru principii fitoterapeutice si modelarea mecanismelor de cedare a acestora - NEWBIOVECT”, (2014-2016); perioada 2014 – iulie 2015.
- PN Nucleu nr. 09-360401: “Identificarea, caracterizarea și utilizarea bioresurselor pentru obținerea de substanțe utile în scopul valorificării acestora și conservării biodiversității”, (2009- 2015); perioada iulie 2015 – decembrie 2015.
- PN Nucleu nr. 16-190401/2016: “Obținerea de substanțe bioactive prin evaluarea biologică și farmacognostica a speciilor vegetale indigene din zona Deltei Dunării, utilizate în noi suplimente alimentare și pentru dezvoltarea agriculturii locale durabile”, 2016-2017.
- PN Nucleu nr. 30N/18180-401: “Identificarea, caracterizarea, autentificarea unor fitocomplecsi bioactive din plante, integrabili în formule de alimente funcționale și suplimente alimentare cu utilizari multiple”, 2018
- Contract nr. 192/2017-TEVIS (PNIII-P2-2.1-PED-2016-1604): “Tehnologii avansate și emergente pentru obținerea de extracte vegetale utilizate în suplimente alimentare inovatoare”, 2017 – 2019
- Contract nr. 188PED/2017: “Noi fitoextracte sigure din specii de arbori din Carpați cu potențial de îmbunătățire a sănătății umane și/sau animale”, 2017- 2018.
- PERFORM (22PFE/17.10.2018) – Cresterea capacității de cercetare și a performanțelor instituționale ale INCDSB (proiect de dezvoltare instituțională – proiecte de finanțare a excelenței în CDI), 2018-2019.
- Proiectul Nucleu nr. 25 N/11.02.2019/19270401: “Valorizarea genofondului natural al plantelor medicinale și aromatice pentru dezvoltare durabilă și utilizare în lanțuri valorice sigure (PLANTVER)”, 2019-2021.
- PNIII-P2-2.1 – 657PED/2022 (cod PNIII-P2-2.1-PED-2021-2229): “Sisteme bio-hibride îmbogățite cu uleiuri extrase biotehnologic aplicabile în ingineria țesutului cutanat”, 2022 – 2024.
- SAFEMAPS (7N/2023) – Programul Nucleu: „Soluții analitice integrate pentru îmbunătățirea conformității și calității produselor obținute din plante medicinale și aromatice în vederea asigurării protecției consumatorilor și a valorificării sustenabile a biodiversității”, parte a Programului Nucleu BIORESGREEN a INCDSB „Dezvoltarea de soluții integrate pentru îmbunătățirea valorificării circulare, durabile și sigure a (BIO)RESURSELOR în vederea furnizării de cunoaștere avansată și realizării de produse cu valoare adăugată utilizând și tehnologii verzi (GREEN), pentru sistemul bioeconomie-mediu-sănătate” (2023 -2026).

### Experiența în programele internaționale/proiecte

#### Cercetător: 1 proiect

- The Romanian - EEA Research Programme 2013 - EEA-JRP-RO-NO-2013-1-032: “Molecular authentication of complex herbal food supplements for safety and efficacy - PHYTOAUTENT”, (2014-in desfășurare); perioada 2014 – iulie 2015.

### ANEXA 3

#### Cereri de brevet naționale

**Cerere nr. A100070/ 02.02.2005:** „Fertilizator ecologic constând dintr-un amestec de produse vegetale”, **PETRUȚ RUXANDRA, MIHĂILESCU ROXANA LAURA, IONESCU ELENA, GRIGORAȘ NADIA, PERȚA ELENA LĂCRĂMIOARA**

**Cerere nr. A/00976/29.09.2011:** “Procedeu economic de epurare a apelor reziduale infestate cu ioni metalici”, **ANTOHE N., IONESCU ELENA, ȚEBRENCU CARMEN E., MIHĂILESCU ROXANA, VERDEȘ RAMONA, GIURESCU CATRINEL, MACAVEI ANTONELA, MIERLICI IONELA, CREȚU RUXANDRA**

Dr. CREȚU Ruxandra-Mihaela