
	
Europass Curriculum Vitae	
Personal information	
First name(s) / Surname(s)	CRETU (PETRUT) RUXANDRA MIHAELA
Address(es)	No 7, Burebista Blv, L4/B, flat 22, 610035, Piatra Neamt, Neamt County, Romania
Telephone(s)	Mobile: 0040-742-00 81 61
Fax(es)	
E-mail	ruxycretu@yahoo.com
Nationality	Romanian
Date of birth	02.10.1977
Gender	feminine
Desired employment / Occupational field	Scientific researcher 3rd degree, Biology, Biochemistry, Phytochemistry
Work experience	
Dates	September 2016 - present
Occupation or position held	Scientific researcher 3 rd degree
Main activities and responsibilities	Aromatic and medicinal plant research (qualitative and quantitative phytochemical analyses); Evaluation of antioxidant activity of medicinal and aromatic plants; Extraction of active principles from medicinal and aromatic plants at laboratory stage; Instrumental and chemical evaluation; Phytobiological testing (<i>Triticum</i> assay); Elaboration of project proposal in funding programmes; Research reports; Scientific papers; Presentation materials; Participation in national and international scientific meetings.
Name and address of employer	National Institute of Research and Development for Biological Sciences/"Stejarul" Biological Research Centre, Alexandru cel Bun 6, 610004, Piatra Neamt, Neamt County, Romania tel/fax: 0040-233-210 809 Website: http://www.ccb-stejarul.ro
Type of business or sector	Plant and experimental Biology Department - Development of bioproducts using formulas in phytotherapy, cosmetics, food; - Phytochemical analysis of active principles; - Morpho-phytochemistry and genetic research; - Crops conventional crops of medicinal and aromatic plants. - <i>In vitro</i> tissue culture.
Dates	July 2015 – August 2016
Occupation or position held	Scientific researcher, biochemist;
Main activities and responsibilities	Aromatic and medicinal plant research (qualitative and quantitative phytochemical analyses); Evaluation of antioxidant activity of medicinal and aromatic plants; Extraction of active principles from medicinal and aromatic plants at laboratory stage; Instrumental and chemical evaluation; Phytobiological testing (<i>Triticum</i> assay); Elaboration of project proposal in funding programmes; Research reports; Scientific papers; Presentation materials; Participation in national and international scientific meetings.

Name and address of employer	National Institute of Research and Development for Biological Sciences/"Stejarul" Biological Research Centre, Alexandru cel Bun 6, 610004, Piatra Neamt, Neamt County, Romania tel/fax: 0040-233-210 809 Website: http://www.ccb-stejarul.ro
Type of business or sector	Plant and experimental Biology Department - Development of bioproducts using formulas in phytotherapy, cosmetics, food; - Phytochemical analysis of active principles; - Morpho-phytochemistry and genetic research; - Crops conventional crops of medicinal and aromatic plants. - <i>In vitro</i> tissue culture.
Dates	January 2002- August 2015
Occupation or position held	Scientific Researcher (CS), Biologist/biochemist, laboratory chief
Main activities and responsibilities	Research activity of aromatic and medicinal plants, vegetables, fruits, cereals, algae, fungi and bee products; Qualitative and quantitative analyses; Microbiological control of intermediary and final products; Phytochemical studies of medicinal and aromatic plants; Extraction of active principles in medicinal and aromatic plants at laboratory, micropilot and pilot stage. Extraction and conditioning studies; Elaboration of experimental model for new method, technology, product; Document elaboration of functional model; Experimental model/laboratory technology design; Experimental model, laboratory technology, experimental variant- execution; Testing of proposed model; Model functionality and availability- demonstration; Design and elaboration of technique and economic analysis document; Technical specification; Elaboration of product, technology and method- technical document; Product obtaining; Document elaboration for product authorization/reauthorization; Technological file elaboration for authorization and validation; Elaboration model for experimentation at pilot phase; Patent application; Elaboration of project proposal in funding programmes; Research reports; Scientific papers; Presentation materials; Participation in national and international scientific meetings. Management activity (project director, responsible from the project partner).
Name and address of employer	The Commercial Society for Medicinal Plant Research and Processing "PLANTAVOREL" S.A. No 46, Cuza-Voda Street, 610019, Piatra-Neamt, Neamt County, Romania Tel./fax 0040- 233- 210 308 E-mail: plv@plantavorel.ro Website : http://www.plantavorel.ro
Type of business or sector	Aromatic and medicinal plants research Processing of aromatic and medicinal plants, vegetables, fruits, cereals and bee products Production of herbal medicines, food supplements, cosmetic and balneary products.
Dates	September 2013-august 2014
Occupation or position held	Lecturer – biochemistry, embriology and genetics
Main activities and responsibilities	Teaching activity
Name and address of employer	Health Post – High School Health, Piatra Neamt 19 Alexandru cel Bun Street, 610004, Piatra Neamt, Neamt Tel/fax: 0233-230182; www.spspnt.ro ; e-mail: secretariat_pss@yahoo.com .
Type of business or sector	Education
Dates	September 2012-august 2013
Occupation or position held	Lecturer – biochemistry, embriology and genetics, chemistry of organic compounds with action on central nervous system, chemistry of anorganic compounds with pharmaceutical action.
Main activities and responsibilities	Teaching activity
Name and address of employer	Health Post – High School Health, Piatra Neamt 19 Alexandru cel Bun Street, 610004, Piatra Neamt, Neamt Tel/fax: 0233-230182; www.spspnt.ro ; e-mail: secretariat_pss@yahoo.com .
Type of business or sector	Education
Dates	October 2000 – January 2002
Occupation or position held	Biology teacher

Main activities and responsibilities	Teaching activity-biology Participation at scholastic competitions
Name and address of employer	Technical College "Gheorghe Cartianu" No 165, Traian Blv., Neamt County, Romania Tel./fax: 0040- 233- 222 800 E-mail: CTCartianu@bluebottle.com Website: http://gscartianuhome.ro
Type of business or sector	Education
Dates	August 2000- October 2000
Occupation or position held	Chemist
Main activities and responsibilities	Research and production of aqueous dyes
Name and address of employer	The Commercial Society "KÖBER" S.A. No 2 Uzinei Street, Dumbrava Rosie, Neamt County, Romania Tel.: 0040- 233- 281 021 Fax.: 0040- 233- 281 222 E-mail: office.savinesti@kober.ro Website: http://www.kober.ro
Type of business or sector	Coating products (putties, primers, paints, enamels, lacquers, thinners) and synthetic resins
Education and training	
Dates	November 2003-June 2012
Title of qualification awarded	PhD, Doctor in Biology; Diploma series H no. 0018140; Ministerial Order no. 6149/07.11.2012 based on CNATDCU resolution, met on 22.10.2012.
Principal subjects/occupational skills covered	General genetics/ Molecular genetics/ Biochemistry
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University of Iasi, Romania Faculty of Biology, Doctoral School- Biology
Level in national or international classification	ISCED6
Dates	October 2001- June 2003
Title of qualification awarded	Master degree; Graduation Diploma series C no. 0017977
Principal subjects/occupational skills covered	Gene expression control; Biochemistry of informational molecules; Nucleic acids research methods; Molecular mechanisms of cell signalling; Biotechnologies in medicine and industry; Transgenic organisms; Biologic systems modelling; Technology of recombinant DNA; Molecular alterations involved in genomic instability; Human molecular genetics and genetic therapies; Molecular biology of cell cycle; Genes evolution.
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University of Iasi, Romania Faculty of Biology, Master- Molecular genetics
Level in national or international classification	ISCED5
Period	October 1996-June 2000
Title of qualification awarded	Biologist, biochemist; Graduation Diploma series S no. 0047583
Principal subjects/occupational skills covered	Inorganic chemistry/biochemistry; Analytical chemistry; Organic chemistry; Vegetal biology; Cellular biology; Physical and colloidal chemistry; Programming and modelling; Biophysics; Sugars and lipids metabolism; Structure of proteins and nucleic acids; Vitamins and hormones; Plant physiology; Molecular genetics; Instrumental analysis in biomedicine; Micro-organisms genetics; Aminoacids, proteins and nucleic acids metabolism; Clinical biochemistry; Genetic manipulation; Biochemical toxicology; Haematology; Research biochemical methods.
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University of Iasi, Romania Faculty of Biology, Biochemistry specialization
Level in national or international classification	ISCED5
Period	September 1992-June 1996
Title of qualification awarded	Baccalaureate degree; Graduation Diploma series P no. 110896

Principal subjects/occupational skills covered	Chemistry, biology, physics									
Name and type of organisation providing education and training	National College "Petru Rares", Piatra Neamt, Romania Specialization: Chemistry-biology									
Level in national or international classification	ISCED 3									
Personal skills and competences										
Mother tongue(s)	Romanian									
Other language(s)										
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C2	Proficient user	B1	Independent user	B2	Independent user	B2	Independent user
French	A2	Basic user	B1	Independent user	A2	Basic user	A2	Basic user	A2	Basic user
	(*) Common European Framework of Reference for Languages									
Social skills and competences	Communication; Teamwork; Seriousness; Correctness									
Organisational skills and competences	Coordination, strategies and procedures regarding project management and teamwork in research projects (2 projects as project manager, 3 projects as team leader).									
Technical skills and competences	Phytochemical studies on some botanical, fungus and algae species; Extraction of the main active principles classes (polyphenols, polyphenolcarboxylic acids, aminoacids, carbohydrates, hypericins etc.); Qualitative and quantitative analyses of active principles in aromatic and medicinal plants, algae and fungi (aminoacids, polysaccharides, polyphenolcarboxylic acids, flavonoids, isoflavonoids, tannins, chlorophylls, vitamin C, anthocyanins); UV/VIS spectrophotometry; TLC; iodine titrimetry Investigation of antioxidant activity of some vegetal products (DPPH); Microbiological control of plants and final products; Phyto-biological testing of some vegetal extracts on <i>Triticum aestivum</i> L. Extraction techniques in the solid-liquid system; Studies regarding obtaining of some standardized extracts; Obtaining of some products (tablets, tinctures) from medicinal and aromatic plants; Studies on conditioning techniques: direct compression technique, encapsulation.									
Computer skills and competences	Office (Word, Excel, PowerPoint, CorelDraw, Publisher, Adobe) Internet Navigation									
Other specialization and qualification	<u>English general knowledge</u> , level 2, grade B, according to Common European Framework of Reference for Languages, Romanian Business School of Commerce Chambers and Industry, Subsidiary of Neamt, with Research and Education Ministry notifications no 268/1992, 5146/2000 and 70148/2004; Graduation Certificate no 1511/28.02.2008; Europass Linguistic Passport no 99/27.02.2008. <u>Project management</u> , organized by the Managerial Agency of Scientific Research, Innovation and Technology Transfer (AMCSIT)- Polytechnic University of Bucharest, Romania, Certificate No. 78/150/4.03.2005.									

Scientific activity	<p>Experience in national programs/projects: 36</p> <ul style="list-style-type: none"> - Project Manager: 2 projects; Project scientific responsible for partner: 3 projects; Researcher/specialist: 31 projects. <p>Experience in international programs/projects: 1 (researcher)</p> <p>Scientific publications: over 75</p> <ul style="list-style-type: none"> - 1 Book; - Papers published in International Journals ISI indexed with Impact Factor:5; Abstracts published in International Journals ISI indexed with Impact Factor:1; Papers published in IDB indexed Journals: 27. - Papers published in volumes of some scientific meetings with ISBN and ISSN; - Papers published in proceedings of some national/international scientific meetings with ISSN/ISBN. - Abstracts published in volumes of other national and international scientific meetings. <p>National patent applications: 2. Awards: 2</p>
Artistic skills and competences	-
Other skills and competences	-
Driving licence	-
Additional information	<p>Member of scientific and professional associations: Association for the Medicinal & Aromatic Plants of Southeast European Countries (AMAPSEEC) (2006-2008; 2018-2020); <i>Phytochemistry Society of Europe (PSE)</i>: 2018-2020.</p> <p>Member of Organizing Committee: The 12th National Symposium with International Participation Medicinal Plants - present and perspectives (MAPPPS), Piatra Neamt, Romania, 6-9.09.2016.</p>
Annexes	- List of scientific publications; - Experience in national and international programs/projects; - Reviewer activity; - List of national patent applications.

Dr. CRETU Ruxandra - Mihaela

ANNEX 1 List of publications

❖ Title of doctoral thesis:

“CYTOGENETIC AND BIOCHEMICAL EFFECTS INDUCED BY THE TREATMENT WITH PHYTOPREPARATIONS BASED ON FLAVONOID COMPOUNDS IN *TRITICUM AESTIVUM* L.” - Scientific leader: Prof. Dr. Ion Bara / Prof. Dr. Gogu Ghiorghita, University “Al. I. Cuza” of Iasi, Faculty of Biology; sustained in 2012, 8th of June.

❖ Books: 1

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%20%20%20the%20Wild%20Flora%20of%20Dobrogea%20\(Romania\).pdf](http://ccb-stejarul.ro/Medicinal%20and%20Aromatic%20Plants%20from%20%20%20the%20Wild%20Flora%20of%20Dobrogea%20(Romania).pdf)

❖ Papers published in ISI Journals with Impact Factor: 5

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>

2. 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; <https://scholar.google.com/citations?hl=ro&user=XAOu6dMAAAAJ>

(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 naphthodianthrone 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>

3. 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 naphthodianthrone 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>

4. Paun G., Neagu E., Moreanu 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=XAOu6dMAAAAJ>

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 hirsutum 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>

(3) Pereira, O.R., Catarino, M.D., Afonso, A.F., Silva, A.M.S., Cardoso, S.M. (2018) *Salvia elegans, Salvia greggii and Salvia officinalis Decoctions: Antioxidant Activities and Inhibition of Carbohydrate and Lipid Metabolic Enzymes*. Molecules 23(12), Article No: 3169. ISSN: 1420-3049 (IF 3.060; Q2). <https://www.mdpi.com/1420-3049/23/12/3169>

(4) Uritu C.M., Mihai C.T., Stanciu G.D., Dodi G., Alexa-Stratulat T., Luca A., Leon-Constantin M.M., Stefanescu R., Bild Veronica, Melnic S., Tamba B.I. (2018) *Medicinal Plants of the Family Lamiaceae in Pain Therapy: A Review*. Pain Research & Management, Vol. 2018, Article ID 7801543, 44 pages. ISSN: 1203-6765. (IF 1.701; Q4) <https://doi.org/10.1155/2018/7801543> <http://downloads.hindawi.com/journals/prm/2018/7801543.pdf>

5. Tebrencu C.E., **Cretu R.M.**, Mitroi G.R., Iacob E., Ionescu E. (2015) *Phytochemical evaluation and HPTLC investigation of bark and extracts of Rhamnus Frangula Linn.* Phytochemistry Reviews 14(4), 27 August 2015 (Special Issue): 613-621. ISSN: 1568-7767 (IF 2.686; Q1). <https://link.springer.com/article/10.1007%2Fs11101-015-9410-8>

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=F4SOUxun6eXBRiFZbR&page=3&doc=30; <https://scholar.google.com/citations?hl=ro&user=XAOu6dMAAAA>

(1) Benli H., Bahtiyari M. (2022) *Providing UV Protection Features for Woolen Fabric Using Buckthorn Dye.* Journal of Natural Fibers, 20(1). ISSN: 1544-0478, eISSN: 1544-046X (IF 3.5, Q1). <https://doi.org/10.1080/15440478.2022.2143978>

(2) Kledecka A., Siejak P., Pratap-Singh A., Kowalczewski P.L., Fathordoobady F., Jarzebski M., Smulek W. (2022) *Extracts from Frangula alnus Mill. and Their Effects on Environmental and Probiotic Bacteria.* Plants, 11: 2719. eISSN: 2223-7747 (IF 4.5; Q1). <https://doi.org/10.3390/plants11202719>

(3) Golubkina N., Plotnikova U., Lapchenko V., Lapchenko H., Sheshnitsan S., Amagova Z., Matsadze V., Naumenko T., Bagrikova N., Logvinenko L., Sakhno T., Shevchuk O., Pirogov N., Caruso G. (2022) *Evaluation of Factors Affecting Tree and Shrub Bark's Antioxidant Status.* Plants, 11: 2609. eISSN: 2223-7747 (IF 4.5; Q1). <https://doi.org/10.3390/plants11192609>

(4) Beszterda M., Franski R. (2022) *Seasonal Qualitative Variations of Phenolic Content in the Stem Bark of Prunus persica var. nucipersica - Implication for the Use of the Bark as a Source of Bioactive Compounds.* ChemistrySelect, 7(13): e202200418. ISSN: 2365-6549 (IF 2.1; Q3). <https://doi.org/10.1002/slct.202200418>

(5) Đukanović S., Cvetković S., Lončarević B., Lješević M., Nikolić B., Simin N., Bekvalac K., Kekić D., Mitić-Ćulafić D. (2020) *Antistaphylococcal and biofilm inhibitory activities of Frangula alnus bark ethyl-acetate extract.* Industrial Crops and Products, Volume 158, 15 December 2020, Article number 113013. ISSN: 0926-6690, e-ISSN: 1872-633X (IF 4.244; Q1). <https://doi.org/10.1016/j.indcrop.2020.113013>.

(6) Pătrăuțanu O.A., Ciupercă O.T., Popa V.I., Volf, I. (2020) *Contributions on spruce bark polyphenols identification using instrumental (UV-vis spectrometry), qualitative (thin layer chromatography) and quantitative (HPTLC densitometry) methods.* Revista de Chimie 71(1): 39-45. ISSN:0034-7752 (IF 1.755; Q3). <https://doi.org/10.37358/RC.20.1.7808>.

<https://revistadechimie.ro/pdf/5%20PATRAUTANU%201%202020.pdf>

(7) Ciupercă, O.T., Tebrencu, C.E., Ionescu, E., Iacob, E., Volf, I. (2019) *Studies on Polyphenols Isolated from Branches of Prunus spinosa L. Species.* Revista de Chimie 70(8): 2897-2902. ISSN:0034-7752 (IF 1.605; Q3).

<https://www.revistadechimie.ro/pdf/41%20CIUPERCA%208%2019.pdf>

(8) Pătrăuțanu, O.A., Lazăr, L., Popa, V.I., Volf, I. (2019) *Influence of particle size and size distribution on kinetic mechanism of spruce bark polyphenols extraction.* Cellulose Chemistry and Technology 53(1-2): 71-78. ISSN: 0576-9787 (IF 0.857; Q3). [http://www.cellulosechemtechnol.ro/pdf/CCT1-2\(2019\)/p.71-78.pdf](http://www.cellulosechemtechnol.ro/pdf/CCT1-2(2019)/p.71-78.pdf)

(9) Duval, J., Pecher, V., Poujol, M., Lesellier, E. (2016) *Research advances for the extraction, analysis and uses of anthraquinones: A review.* Industrial Crops and Products 94(30): 812-833. ISSN: 0926-6690 (IF 3.181; Q1). DOI: 10.1016/j.indcrop.2016.09.056. <https://www.sciencedirect.com/science/article/pii/S0926669016306562>

❖ Abstracts included in International ISI Journals/Supplements of ISI Journals with Impact Factor: 1

1. **Cretu R.**, Mitroi R.G., Iacob E., Ionescu E. (2010) *Development and validation of a HPTLC densitometric method for the assay of rutin in Viola tricoloris herba.* Abstract Book of 6th Conference on Medicinal and Aromatic Plants of Southeast European Countries", 2010, April 18-22, Antalya, Turkey. Pharmacognosy Magazine, April-June, 6(22) (Suppl); Medknow Publications and Media Pvt.Ltd., Mumbai, India.; ISSN: 0973-1296, included in CAB Abstracts, Chemical Abstracts, CSA Databases, DOAJ, EBSCO Publishing's Electronic Databases, Excerpta Medica/EMBASE, Google Scholar, Hinari, Index COPERNICUS, Indian Science Abstracts, Journal Citation Reports, OpenJGate, Science Citation Index Expanded, Ulrich's International Directory, Web of science, S160 (IF 0.432; Q4).

❖ Papers published in IDB indexed Journals: 18

1. Gille E., Tebrencu C.E., Necula R., Grigoras A.V., Stefanache C.P., **Cretu R.M.** (2018) *Phytobiological testing of some bioactive complexes extracted from Scirpoides holoschoenus (L.) Soják and Helichrysum arenarium (L.) Moench.* Scientific Annals of „Alexandru Ioan Cuza” University of Iasi, New series, Section II a. Vegetal Biology, 64: 25-38. ISSN: 1223-6578, E-ISSN: 2247-2711.

http://www.bio.uaic.ro/publicatii/anale_vegetala/issue/2018/04-2018.pdf

2. Tebrencu C.E., **Cretu R.M.**, Ciupercă O.T., Ionescu E. (2018) *Phytochemical evaluation of Scirpoides holoschoenus (L.) Soják extracts.* Scientific Annals of „Alexandru Ioan Cuza” University of Iasi, New series, Section II a. Vegetal Biology, 64: 39-49, ISSN: 1223-6578, E-ISSN: 2247-2711. http://www.bio.uaic.ro/publicatii/anale_vegetala/issue/2018/05-2018.pdf

3. Tebrencu C.E., Iordache T.V., Ionescu E., **Cretu R.M.**, Florea A.M., Teodor S., Apostol S., Zaharia A., Radu A.L., Sârbu A. (2018) *Straightforward Preparation of Naphtodianthrone-Rich Ethanolic Extracts from Wild St. John's Wort.* Journal of Dietary Supplements, October 2018: 1-9. ISSN: 1939-0211 (Print) 1939-022X (Online). <https://doi.org/10.1080/19390211.2018.1484404>

4. Ciupercă O.T., Tebrencu C.E., Iacob E., **Cretu R.M.**, Chiriac M., Ionescu E. (2016) *Phytochemical screening and chromatographic fingerprint studies on ethanolic extracts of Arnica montana L.* Scientific Annals of „Alexandru Ioan Cuza” University of Iasi, New series, Section II a. Vegetal Biology, 62(2): 53-60, ISSN: 1223-6578, E-ISSN: 2247-2711. http://www.bio.uaic.ro/publicatii/anale_vegetala/issue/2016F2/07-2016F2.pdf.

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30. **Cretu R.**, Macavei A., Bara I.C., Ghiorghita G., Verdes R., Iacob E., Ionescu E. (2011) *Physiological effects induced by the hydroalcoholic extract of Viola tricoloris herba (wild pansy aerial parts) on Triticum aestivum L.* Abstracts of the Scientific Session with International Participation "Diversitate structurala si functionala in organizarea biologica", 7-8 October, Iasi, p.37. Poster presentation.
31. **Cretu R.**, Mihailescu R., Mitroi G., Iacob E., Verdes R., Tebrencu C. (2011) *Phytochemical investigation of Crataegi folium cum flos (hawthorn leaves and flowers) and Hyperici herba (St John's wort aerial parts) hydroalcoholic extracts*. Abstracts of the Scientific Session with International participation "Diversitate structurala si functionala in organizarea biologica", 7-8 October, Iasi, p. 37. Poster presentation.
32. **Cretu R.**, Mihailescu R., Perta L., Ionescu E., Mitroi G. (2006) *Researches to obtain some phytotherapeutical products with immunomodulatory activity from edible mushrooms. Note1. The quantitative and qualitative analysis of active principles with immunomodulatory activity*. Book of Abstract of IV Balkan Botanical Congress, 19-26 June, Sofia, Bulgaria, p. 285. Poster presentation.
33. **Cretu R.**, Perta L., Mihailescu R., Ionescu E., Chiriac M. (2006) *Researches to obtain some phytotherapeutical products with antioxidant activity from Vitis cotex, Rosae cortex and Hippophae cortex. Note1. The quantitative and qualitative analysis of active principles with antioxidant activity*. Book of Abstract of IV Balkan Botanical Congress, 19-26 June, Sofia, Bulgaria, p. 285. Poster presentation.
34. Mihailescu R., Gille E., Mitroi G., Doina D., Iacob E., **Cretu R.**, Ionescu E. (2006) *Phytopreparations obtained by biotechnology*. Abstracts of the BIOTECH Symposium "The results of the Romanian biotechnological research within the National Innovation Development Research Plan and perspectives in their application", 8-10 November, 2006, Piatra Neamt, p. 56-57. PowerPoint presentation.

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.

ANNEX 2 Scientific meetings

❖ International: 1

1. Gille E., Gavril G.L., Necula R., Grigoras V., **Cretu R.M.** (2017) *Valorisation of some MAPs species from spontaneous flora in obtaining food supplements usable in phytotherapy*. International Scientific Symposium "Conservation Of Plant Diversity", 5th Edition, 1-3 iunie 2017, Chisinau, Republica Moldova.

❖ National: 6

1. 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.
2. Gille E., Grigoras V., **Cretu R.M.**, Necula R., Bobit D., Gavril G.L. (2017) *Ecological agriculture: basis for formulation of food supplements with multiple uses*. Agriculture and Food for XXI (AGRI-FOOD 2017), Scientific Conference with international participation celebrating 27 years of activity and the 25th Anniversary of Agronomy Higher Education in Sibiu under the aegis of Sibiu European Region of Gastronomy, 11-13 May 2017, Romania
3. Gille E., Necula R., Grigoras V., Gavril G., Tebrencu C., **Cretu R.** (2017) *Importance of medicinal and aromatic plants. Feast of medicinal and aromatic plants*, 6 iulie 2017, Secuieni, Neamt.
4. Gille E., Gavril G., **Cretu R.**, Necula R., Grigoras V. (2016) *Valorization of mountain biodiversity – resource for obtaining some food supplements and functional foods with multiple uses*. Scientific and informal conference "Romania Mountains – resources and evolution by quality" organized by Center of Mountain Economy – CEMONT, Vatra Dornei, Romania, 2.07.2016.
5. Tebrencu C.E., Ionescu E., **Cretu R.** (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 Şişeşti" Bucharest, Secuieni Agricultural Research Station, 25 March 2015, Secuieni, Romania. Communication.
6. Gille E., Gavril G., Necula R., Grigoras V., Cretu R. (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.

❖ Other conferences/workshops: 3

- 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*.

❖ Participation at international scientific meetings: 8

- 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.
- 2019 - 4th International Conference on Natural Products Utilization From Plants to Pharmacy Shelf, 29 May - 01 June 2019, Albena, Bulgaria
- 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 4th Conference on Medicinal and Aromatic Plants of South- East European Countries, Iași, Romania, 28 -31 May, 48 EFC credits.
- 2005- The 12th Panhellenic Pharmaceutical Congress, 14-16 May, Athena, Hellenic Republic.

ANNEX 3

❖ Training:

2017 - grant to participate to *The 10th International workshop Metabolomics Basics and Applications to Plant Sciences* in Leiden, May 1-5, 2017, under the guidance of Professor Emerit Robert Verpoorte, Natural Products Laboratory, Institute of Biology, Leiden University, The Netherlands.

2016 - Departments of Pharmaceutical Biology, Botany and Biotechnology, Wroclaw Medica, University, Poland, 20.03–09.04.2016, under the guidance of Prof. Dr. Adam Matkowski to acquaint with the following research methods: mutagenic and antimutagenic testing of natural products using bacterial assays; *in vitro* testing of pro-inflammatory enzymes inhibition using spectrophotometry; gas-chromatographic analysis of plant volatile metabolites from medicinal plants *in vitro* cultures; basic skills in molecular analysis of plant specialized metabolic pathways (nucleic acid extraction, PCR amplification, cDNA synthesis).

❖ Webinars:

2020 - Best TLC & HPTLC practices in pharmaceutical separations, Labroots, Your Science Network, Sponsored by Millipore Sigma, 11.12.2020.

❖ Awards: 2

1. **THE TEVA AWARDS** – PHYTOCHEMICAL IN MEDICINE AND PHARMACOGNOSY, 27-30 APRIL 2014, PIATRA-NEAMT, ROMANIA, for:

- **POSTER 42 - TEBRENCU C., CRETU R., MITROI G., IACOB E., IONESCU E. 2014.** *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.

2. **The award of research results – articles**, for: TEBRENCU C.E., CRETU R.M., MITROI G.R., IACOB E., IONESCU E.. 2015. Phytochemical evaluation and HPTLC investigation of bark and extracts of *Rhamnus Frangula* Linn. *Phytochemistry Reviews* 14(4), 27 August 2015 (Special Issue): 613-621. ISSN: 15687767 (IF 2.686). <http://uefiscdi.gov.ro/articole/4240/Rezultate.html>
http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare_lista%202015.pdf, code PN-II-RU-PRECISI-2015-9-9192.

ANNEX 4

Research projects

1. Experience in national programs/projects

❖ Project director: 2 projects

RELANSIN 2059/2004 Project: “Phyto-therapeutically product based on flavonoid compounds involved in menopausal osteoporosis treatment”, 2004 – 2006;

AGRAL 211/2003 Project: “Optimization of bio-available nutrients content in *Glycine max* (soybean) by treatment with vegetal fertilizers”, 2003 – 2005.

❖ Project scientific responsible of the partner: 3 projects

CEEX - AGRAL 15/2005 Project: “Characterization of some vegetal and fungal bioactive principles with cytostatic, immunomodulatory, metabolic and neurotropic action and their exploitation in functional food”, 2005 – 2008;

PN II – PARTNERSHIPS IN PRIORITY AREA - 31-061/2007 Project: „Uncontaminated vegetal extracts used in phyto-therapy, obtained by unconventional technologies”, 2007-2010 ; for the period 2007-2008.

PN II – PARTNERSHIPS IN PRIORITY AREA - 154/2012 Project: “Hybrid materials polymer- porous clay heterostructures type for controlled release of drugs - DELPOCLAY”, 2012 – 2015; for the period October 2013 – July 2015.

❖ Researcher/specialist: 31 proiecte

RELANSIN 1856/2003 Project: “Gallic acids phyto-complex, raw material for obtaining a medicine to treat periodontitis”, 2003 – 2005;

CEEX - RELANSIN 148/2006 Project: „ Imprinted polymeric structures for molecular recognition of bioactive compounds in phyto-extracts”, 2006- 2008;

CALIST 4118/2003: “Measuring performance method and related procedure of residual pesticides in medicinal vegetal products”, 2003 – 2005;

CALIST 5137/2004 Project: “ Control method of emulsions physical stability by some rheological properties determination”, 2004 – 2006;

CALIST 5114/2004 Project: “ Fast gas chromatographic method for volatile oils measuring”, 2004 – 2006;

AGRAL 241/2003 Project: „ Complex exploitation of regional agro-tourism potential in accordance with sustainable rural development in Moldavia Subcarpathians”, 2003 – 2005;

BIOTECH 3310/ 2003 Project: “ Antimicrobial and antiviral bio-products used to treat mouth diseases”, 2003 – 2005;

BIOTECH 4690/ 2004 Project: “ Phyto-therapeutically products obtained by vegetal biotechnologies used in some genito-endocrine disorders”, 2004 – 2006;

BIOTECH 4694/ 2004 Project: “ A bioactive biocomplex obtaining involved in peripheral circulation stimulation”, 2004 – 2006;

CEEX – BIOTECH 21/2005 Project: “ Phyto-products with anti-aging potential obtained by biotechnologies”, 2005- 2008;

CEEX – BIOTECH 77/2006 Project: „ Obtaining of some products with action on neural, immune and cutaneous system by biotechnologies”, 2006- 2008;

VIASAN 317/2004 Project: “ Action chemical factor- evaluation of peloid mud from Techirghiol in locomotor apparatus- chronic degenerative and inflammatory pathology”, 2004 – 2006;

PN II INOVATION 33/2007 Project: „ Phyto-products involved in counteracting of some metabolic imbalances”, 2007-2009;

PN II – PARTNERSHIPS IN PRIORITY AREA - 61-039/2007 Project: „ Biotechnologies to obtain some vegetal metabolites used in orthomolecular prophylaxis and therapy”, 2007-2010;

PN II – PARTNERSHIPS IN PRIORITY AREA - 51-060/2007 Project: „ Obtaining of some phyto-preparations involved in prevention of some cardiovascular diseases prevention”, 2007-2010;

PN II – PARTNERSHIPS IN PRIORITY AREA - 51-0-55/2007 Project: „ Agro-forest strategies for exploitation and preservation of medicinal plants biodiversity in sustainable rural development – framework on Bistrita Upstream.”, 2007-2010;

PN II – PARTNERSHIPS IN PRIORITY AREA - 114/2012 Project: “Super absorbents biopolymers materials for agriculture uses - SABIOM”, 2012 – ongoing; for the period 2012- July 2015;

PN II – PARTNERSHIPS IN PRIORITY AREA - 117/2012 Project: “Spontaneous flora exploitation nanotechnology to obtain concentrates with high bioactivity hypericin - SPOFLORAHYP”, 2012 - ongoing; for the period 2012 – July 2015;

PN II – PARTNERSHIPS IN PRIORITY AREA - 154/2012 Project: “Hybrid materials polymer- porous clay heterostructures type for controlled release of drugs - DELPOCLAY”, 2012 – ongoing; for the period 2011 – October 2013.

PN II-PT-PCCA-2013-4-0791 - 74/2014 Project: ” Development of a functional model for the sustainable capitalization of the genetic and phytochemical diversity of *Arnica montana* L. Wild/natural population from Romanian Eastern Carpathians - ARMOREC”, 2014 – 2017; for the period 2014 – July 2015;

PN II-PT-PCCA-2013-4-0361- 145/2014 Project: ”Higher valorization of vegetal by-products and wastes to support sustainable use of natural resources - HIVEGRES”, 2014 – 2017; for the period 2014 – July 2015;

PN II-PT-PCCA-2013-4-0034 - 202/2014 Project: ” Obtaining new vector types for their phytotherapeutical principles, by means of biotechnological processes and the modeling of the phytotherapeutical principle’s release mechanism - NEWBIOVECT”, 2014 – 2017; for the period 2014 – July 2015.

National Core Program no. 09-360401: “Identification, characterization and use of bioresources to obtain useful substances for their capitalization and for biodiversity preservation”, 2009- 2015; for the period July – December 2015.

National Core Program no. 16-190401/2016: “The obtaining of bioactive compounds by biological and pharmacological evaluation of the indigenous vegetal species from the Danube Delta area, used in new food supplements and for the development of the sustainable local agriculture”; 2016- 2017;

National Core Program no. 30N/18180-401: “Identification, characterization, authentication of some bioactive phytocomplexes from plants, that can be integrated into functional foods and food supplements formulas with multiple uses”, 2018

PNIII-P2-2.1 – 192PED/2017 (code PNIII-P2-2.1-PED-2016-1604): “Advanced and emergent technologies to obtain vegetal extracts used in innovator food supplements (TEVIS)”, 2017 – 2018

PNIII-P2-2.1 - 188PED/2017 (code PN-III-P2-2.1-PED-2016-1247): “New Safe Phytoextracts from Different Species of Carpathian Trees with Improvement Potential of the Animal and/or Human Health”, 2017-2018; for the period March - April 2018.

PERFORM (22PFE/17.10.2018) – Increasing research capacity and institutional performance of INCDSB (institutional development project, excellence financing in RD&I), 2018-2019.

National Core Program no. 25 N/11.02.2019/19270401: “Valorisation of the natural genetic background of medicinal and aromatic plants for sustainable development and use in secure value chains (PLANTVER)”, 2019-2021.

PNIII-P2-2.1 – 657PED/2022 (code PNIII-P2-2.1-PED-2021-2229): “Hybrid bio-systems enriched with biotechnological extracted oils and applicability in skin tissue engineering”, 2022 – 2024.

SAFEMAPS (7N/2023) – Core Program: „Integrated analytical solutions for improving the conformity and quality of products obtained from medicinal and aromatic plants in order to ensure consumers protection and sustainable exploitation of biodiversity”, part of BIORESGREEN Core Program of NIRDBS „The development of integrated solutions to improve the circular, sustainable and safe valorization of (BIO)RESources in order to provide advanced knowledge and create products with added value using green technologies (GREEN), for the bioeconomy-environment-health system” (2023 -2026).

2. Experience in international programmes/projects

❖ Researcher: 1 project

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 – 2017; for the period 2014 – July 2015.

ANNEX 5

Reviewer activity

Spandidos Publications: Oncology Reports, 2018 (IF 3.041); Oncology Letters, 2018 (IF 1.871); *Spandidos Publications:* Oncology Letters, 2018 (IF 1.871); *Phcog.Net:* Pharmacognosy Magazine, 2014 (IF 1.256); 2017 (IF 1.525)

ANNEX 6

National patent applications

Application no A100070/02.02.2005: “Ecologic fertilizer based on vegetal products mixture”. Authors: Petruț R., Mihăilescu R.L., Ionescu E., Grigoraș N., Perța E.L.

Application no A/00976/29.09.2011: “The economic process in wastewater treatment plants infested with metal ions”. Authors: Antohe N., Ionescu E., Țebrencu C.E., Mihăilescu R., Verdeș R., Giurescu C., Macavei A., Mierlici I., Crețu R.

Dr. CRETU Ruxandra - Mihaela