



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **TEBRENCU (HUMELNICU) CARMEN ELENA**
Address(es) Str. Hangului nr.11, 610025 Piatra Neamt, Neamt county, Romania
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Fax(es) 0040-233-210 308
E-mail carmen@plantavorel.ro; carmen.tebrencu@yahoo.com
Nationality Romanian
Date of birth 20.03.1958
Gender feminine

Occupational field

Chemical engineering/ Pharmaceutical technology / scientific research

Work experience

Dates october 2012- onwards
Occupation or position held **Senior Researcher 2nd degree (CS II), R&D Manager Senior researcher**
Main activities and responsibilities Development, implementation and ongoing research projects
- Project Manager / Scientific responsible project partner : 11 projects
- Researcher (CS II)/ Project specialist : 30 projects
Research activity:
- Study of plant species phytochemical;
- Exploitation of indigenous medicinal plants, using the various types of diseases;
- Extraction of plant metabolites: ex.: carotenoids , phytosterols , saponosids polyphenols ,
monoterpenes ,flavons *etc.*;
- Selection of extraction methods, determining the optimum parameters for obtaining development
of extractive processes extracts rich in active principles;
- Development of original technology, modern and environmentally superior to allow processing of
medicinal plants;
- Conditioning extracts to ensure stability;
- Development of bioproducts standardized, efficient and seif; development of products for the
prevention and treatment of diseases affecting the human health based on medicinal plant,
vegetables, fruits, cereals and bee products
President of the Technical-scientific Council of SC CCPPM Plantavorel SA Piatra Neamt
Research compartment management activities:
- research planning and tracking;
- coordinate the research activity
Development of scientific papers, patents
Participation in national and international scientific meetings
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.: +40 233210308
Fax.: +40 233210308
Website : <http://www.plantavorel.ro/ro/index.php>
Type of business or sector Research activity of medicinal herbs
Manufacturing medicinal and aromatic herbs , vegetable products, cereals and products of the hive
Production of herbal medicines, food supplements, cosmetics and balneary use

Dates	may 2004- october 2012
Occupation or position held	Senior Researcher 2nd degree (CS II), Technical Manager
Main activities and responsibilities	<p>Development, implementation and ongoing research projects</p> <ul style="list-style-type: none"> - Project Manager / Scientific responsible project partner : 4 projects - Researcher (CS II)/ Project specialist : 15 projects <p>Research activity:</p> <ul style="list-style-type: none"> - Study of plant species phytochemical; - Exploitation of indigenous medicinal plants, using the various types of diseases; - Extraction of plant metabolites: ex.: carotenoids , phytosterols , saponosids polyphenols , monoterpenes ,flavons <i>etc.</i>; - Selection of extraction methods, determining the optimum parameters for obtaining development of extractive processes extracts rich in active principles; - Development of original technology, modern and environmentally superior to allow processing of medicinal plants; - Conditioning extracts to ensure stability; - Development of bioproducts standardized, efficient and seif; development of products for the prevention and treatment of diseases affecting the human health based on medicinal plant, vegetables, fruits, cereals and bee products <p>Member of the Technical-scientific Council of SC CCPPM Plantavorel SA Piatra Neamt</p> <p>Member of Scientific Committee organization at:</p> <ul style="list-style-type: none"> - "4th Conference on Medicinal and Aromatic Plants of South-East European Countries", 28-31 May 2006, Iasi, Romania - „Simpozionului Plante Medicinale- Prezent si Perspective" 2007, Piatra Neamt <p>Member of the Commission for PhD , Politehnica Bucuresti/ Fac. Chimie industriala, april 2009</p> <p>Technical compartment management activities:</p> <ul style="list-style-type: none"> - production planning and tracking; - coordinate the notification products <p>Development of scientific papers, patents</p> <p>Participation in national and international scientific meetings</p>
Name and address of employer	<p>The Commercial Society for Medicinal Plant Research and Processing "PLANTAVOREL" S.A. No 46, Cuza-Voda Street, 610019, Piatra-Neamt, Neamt County, Romania Tel.: +40 233210308 Fax.: +40 233210308 Website : http://www.plantavorel.ro/ro/index.php</p>
Type of business or sector	<p>Research activity of medicinal herbs Manufacturing medicinal and aromatic herbs , vegetable products, cereals and products of the hive Production of herbal medicines, food supplements, cosmetics and balneary use</p>
Dates	july 1994 – may 2004
Occupation or position held	Senior Researcher 2nd degree (CS II), Chief EXTRACTION
Main activities and responsibilities	<p>Development, implementation and ongoing research projects</p> <ul style="list-style-type: none"> - Project Manager / Scientific responsible project partner : 3 projects - Researcher (CS II)/ Project specialist : 7 projects <p>Coordinating research activity of plant extracts</p> <ul style="list-style-type: none"> - Research on selective extraction of bioactive principles of plant origin <p>Member of the Technical-scientific Council of SC CCPPM Plantavorel SA Piatra Neamt</p> <p>Management an research activities part EXTRACTION</p> <ul style="list-style-type: none"> - Optimization of solid-liquid extraction process the extraction of active principles of medicinal and aromatic plants; - Improving existing extraction technologies; - Manufacture of fluid extracts, tinctures and dry extracts powder; - Production of standardized extracts of active principles used as raw materials in manufacturing products of plant origin - Getting biocomplecsi use in the nutrition, cosmetic and protective fitoproduse <p>Development of scientific papers, patents</p> <p>Participation in national and international scientific meetings</p>

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.: +40 233210308
Fax.: +40 233210308
Website: <http://www.plantavorel.ro/ro/index.php>

Type of business or sector Scientific research and production plant extracts (vegetable raw materials to manufacture supplements and herbal medicines and aromatic, finished products - tinctures, fluid extracts)

Dates **december 1983- july 1994**

Occupation or position held **Chemical Engineer , Researcher (CS / CS III), Head of Laboratory Operations Unitary**

Main activities and responsibilities Research activity , development, implementation and ongoing research projects

- Study the process of drying bulk material
- Kinetic and hydrodynamic studies for drying
- Cleaning materials through advanced methods
- Liquid-liquid extraction
- Wastewater from polyamide granules manufacturing process
- Design chemical equipment

Name and address of employer Research Center for Syntethic Fibres (today SC ICEFS COM)
Str. Uzinei nr.1, 617410, Savinesti Neamt county, Romania
Tel.: +40 233281690
Fax.: +40 233281680
Website: <http://www.icefs.ro/contact.htm>

Type of business or sector Research and manufacture of synthetic fibers

Dates **august 1982- december 1983**

Occupation or position held **Engineer-technologist**

Main activities and responsibilities Caprolactam production monitoring and control

Name and address of employer Center for Syntethic Fibres (today FibrexNylon)
Phone: +40 233 205.000
Fax: +40 233 205.180
Website: <http://www.fibrex.ro/>

Type of business or sector production activity

Education and training

Dates **October 2004-june 2005**

Title of qualification awarded **Master industrial pharmaceutical technology**

Principal subjects/occupational skills covered Pharmaceutical technology; Therapeutic chemistry; Pharmacology; Control and quality of medicines; Pharmaceutical legislation
Competent in industrial pharmaceutical technology

Name and type of organisation providing education and training Universitatea de farmacie si medicina " IULIU HATIEGANU" Cluj napoca, Romania

Level in national or international classification ISCED5

Dates **Mars 2001**

Title of qualification awarded **Senior Researcher (CSII) / certified researcher CS II**

Principal subjects/occupational skills covered Methods and techniques of extraction of active principles of medicinal and aromatic plants
Phytochemical studies

Name and type of organisation providing education and training The Commercial Society for Medicinal Plant Research and Processing "PLANTAVOREL" S.A.
No 46, Cuza-Voda Street, 610019, Piatra-Neamt, Neamt County, Romania
University "Al I. Cuza "Iasi

Level in national or international classification ISCED5

Dates **November 1998**

Title of qualification awarded **Doctor of Science / Chemistry / Chemical industry processes and equipment**

Principal subjects/occupational skills covered
 Mass transfer / heat transfer / unit operations
 Specialist operations unit
 Thesis: "Proceed intensive drying and bulk granular materials"

Name and type of organisation providing education and training
 Polytechnic University of Bucharest, Romania

Level in national or international classification
 ISCED6

Dates
September 1977-june 1982

Title of qualification awarded
Chemical mechanical engineer

Principal subjects/occupational skills covered
 Specialization: engineering machinery and chemical processes

Name and type of organisation providing education and training
 Polytechnic Institute of Bucharest, Romania / Faculty of engineering machinery and chemical processes

Level in national or international classification
 ISCED5

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

French

English

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](#)

Social skills and competences
 A very good communication skills
 Teamwork

Organisational skills and competences
 Capacity for coordination and formulation of strategies and procedures governing the work achieved by (Technical Director, Scientific Technical Council member CCPPM Plantavorel Piatra Neamt SC)
 Project management and teamwork gained through leading teams to achieve the research projects

Technical skills and competences
 Studies of phyto-chemical
 Extraction and separation of active principles
 Extraction techniques in the system solid-liquid and liquid-liquid
 Form formulations phyto-conditioning
 Management and process optimization of extraction of plant active ingredients (medicinal and aromatic plants, cereals, vegetables, fruit, etc..)
 Studies on appliances (dryers, extractors, filters, spray mills)
 Studies of sewage / waste water decontamination

Computer skills and competences
 Good mastery of Microsoft Office programs Word, Microsoft Office Excel, Microsoft Office PowerPoint, Corel Draw, Internet explorer, Outlook Express, Adobe Acrobat

Driving licence
 Category B

Additional information

TUBORG Research Fellowship, 2002 - by funding programs for fellowships in environmental protection granted by Tuborg, Romania and Balkan Environmental Protection Association: March-November 2002, entitled: "Study of technological waste water obtained in the extraction of principles active herbs"

Awards for contributions to professional / world scientific :

« Silver medal - EUREKA 1999, the 48th Salon international de l'Innovation, from recherche nouvelle et des Technologies », Bruxelles, for inventions:

1. *Natural dietary product with lipid-lowering action-DIETT;*

2. *Herbal natural product with hypoglycaemic activity*

Prize I – BIOTECH program, awarded by National Authority for Scientific Research Program , 2005, Bucuresti, Romania

Prize I- BIOTECH program for project: "Biocomplex obtain a bioactive role in supporting peripheral circulation"., 2006, Bucuresti, Romania

THE TEVA AWARDS 2014- POSTER AWARDED at international conferences PHYTOCHEMICAL IN MEDICINE AND PHARMACOGNOSY, 27-30 APRIL 2014, PIATRA-NEAMT, ROMANIA, for:- **P42 - TEBRENCU CARMEN, CRETU RUXANDRA, MITROI GABRIELA, IACOB ELENA, IONESCU ELENA.**

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.

THE AWARD WINNING ARTICLE on electronic platform UD/Manager i/Program Resurse Umane „**Premierea Rezultatelor Cercetarii - Articole**

– **2015** with registration number PN-II-RU-PRECISI-2015-9-9192

– **2018** with registration number PN-III-P1-PRECISI-2018-25392

– **2021** with registration number PN-III-P1-1.1- PRECISI-2021- 60874

Experience in national programs/projects:

Manager project: 4 projects

Partner Team Leader: 9 projects

Key expert: 22 projects

Researcher/specialist: 8 projects

Experience in international programs/projects: 1 (as Partner Team Leader)

Scientific publications: over 130

- Papers published / Abstracts included in ISI journals/ Supplements of ISI Journals with IF:**20**
- Papers published in national and international journals indexed BDI:**16**
- Papers published in other journals with ISSN and ISBN: **5**
- Papers published in proceedings /book of abstracts of national scientific meetings, with ISBN and ISSN:**15**
- Papers published in proceedings or book of abstracts of international scientific meetings, with ISBN and ISSN: **45**
- Papers published in the volumes (CD) of other international scientific manifestations:**12**
- Abstracts / papers published in volumes of other national and / or international scientific events:**31**

National patents: 13 patents and 7 application

Member of scientific and professional associations:

- 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

References

Prof. Dr. Eng. Gheorghita Jinescu, Full member of the Academy of technical Sciences in Romania
Universitatea POLITEHNICA Bucuresti, Romania

Dr. Eng. Elena Ionescu, Full member of Academy of scientists from Romania, General Manager
SC CCPPM Plantavorel SA Piatra Neamt, Romania

Annexes

CV Attachments:

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

ANNEXE 1
LIST OF SCIENTIFIC PUBLICATIONS

Thesis:

"Intensive drying processes granular materials and powders"/ Scientific leader: Prof.dr.ing. GHEORGHITA JINESCU, POLITEHNICA Bucuresti, Fac. Chimie Industriala, supported on the november 1998.

Papers published / Abstracts included in ISI journals/ Supplements of ISI Journals with Impact Factor

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
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:

- (1) Duval Johanna, Pecher Virginie, Poujol Marion, Lesellier E. (2016) *Research advances for the extraction, analysis and uses of anthraquinones: A review*. *Industrial Crops and Products* 94: 812-833. **IF 3.449**. <http://dx.doi.org/10.1016/j.indcrop.2016.09.056>
- (2) Azadkhan Roya, Sagharjoghi Farahani M. (2016) *The Effects of Frangula Alnus miller on HEK Cells in Cell culture*. *Proceedings of 2016 International Conference on Biological and Environmental Science (BIOES-16)*, New Jersey (Near New York), USA, June 8-9, 2016, p.52-56. <http://dx.doi.org/10.17758/UR.U0616228>.

11. GIURESCU BEDREAG C.F., TRIFAN A., BUCUR L.A., ARCUS M., **TEBRENCU C.E.**, MIRON A., COSTACHE I.I. **2014**. *Chemical and antioxidant studies on Crataegus pentagyna leaves and flowers*, ROMANIAN BIOTECHNOLOGICAL LETTERS 19(6) :9859-9868, ISSN: 1224 - 5984 , **IF 2014: 0,351** , https://www.rombio.eu/vol19nr6/lucr%206%20Catrine%20Bedreag_rec_18%20iulie%202014_ac%2020%20nov%202014%20%20corectat.pdf
12. DANILA DOINA, NECULA RADU, SPAC ADRIAN, **TEBRENCU CARMEN ELENA**, GILLE ELVIRA **2010**. *Phytochemical evaluation of some natural populations of Achillea, Hypericum and Thymus from Romanian Eastn carpathians used in traditional medicine*. PLANTA MEDICA -Journal of Medicinal Plant and Natural Product Research (58th International Congress and Annual Meeting of the Society for Medicinal Plant and natural Product Research). Book of Abstracts vol.76 (12): 1163. Berlin, GERMANY; ISSN 0032-0943, ISSN: 1439-0221, **IF 2009:2,037** <https://www.thieme-connect.com/ejournals/toc/plantamedica/102403/grouping/102104>
13. **TEBRENCU C.E.**, MIHAILESCU R., MITROI G., GIURASCU C., IONESCU. **2010**. *The effect of extraction solvent and temperature on the content of phenolic and antioxidant activity of some forest E.fruits. Nota1: Vaccinium vitis idaeae fructus*. Abstract Book of 6th Conference on medicinal and Aromatic Plants of Southeast European Countries", 2010, April 18-22, Antalya, Turkey, edited in PHARMACOGNOSY MAGAZINE, April-June, volume 6, issue 22 (Suppl); Medknow Publications and Media Plv.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, S60. **IF 2009: 0,432** <http://www.phcog.com/showBackIssue.asp?issn=0973-1296;year=2010;volume=6;issue=22;month=April;supp=Y>
14. **TEBRENCU C.E.**, MIHAILESCU R., IACOB E., VERDES R., IONESCU E.. **2010**. *The effect of extraction solvent and temperature on the content of phenolic and antioxidant activity of some forest fruits. Nota1: Prunus spinosa fructus*. Abstract Book of 6th Conference on medicinal and Aromatic Plants of Southeast European Countries", 2010, April 18-22, Antalya, Turkey, edited in PHARMACOGNOSY MAGAZINE, April-June, volume 6, issue 22 (Suppl); Medknow Publications and Media Plv.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, S61. **IF 2009: 0,432** <http://www.phcog.com/showBackIssue.asp?issn=0973-1296;year=2010;volume=6;issue=22;month=April;supp=Y>
15. BEDREAG C., MIHAILESCU R., IACOB E., MITROI G., VERDES R., **TEBRENCU C.E.**, IONESCU E.. **2010**. *The effect of solvent extraction on the extractibility of some bioactive substances and antioxidant activity of some medicinal herbs indicated for cardiovascular protection. Note II: Fructus of Sorbus aucuparia*. Abstract Book of 6th Conference on medicinal and Aromatic Plants of Southeast European Countries", 2010, April 18-22, Antalya, Turkey, edited in PHARMACOGNOSY MAGAZINE, April-June, volume 6, issue 22 (Suppl); Medknow Publications and Media Plv.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, S61., **IF 2009: 0,432** <http://www.phcog.com/showBackIssue.asp?issn=0973-1296;year=2010;volume=6;issue=22;month=April;supp=Y>
16. BEDREAG C., MACAVEI A., VERDES R., MIHAILESCU R., ANTOHE N., IONESCU E., **TEBRENCU C.E.**, MINEA R.. **2010**. *Irradiation Effects On Phenolic Content And Scavenger Ability Of Some Medicinal Herbs Formulations Note I: Fructus Of Rosa canina L*. Abstract Book of 6th Conference on medicinal and Aromatic Plants of Southeast European Countries", 2010, April 18-22, Antalya, Turkey, edited IN PHARMACOGNOSY MAGAZINE, April-June, volume 6, issue 22 (Suppl); Medknow Publications and Media Plv.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., **IF 2009: 432** <http://www.phcog.com/showBackIssue.asp?issn=0973-1296;year=2010;volume=6;issue=22;month=April;supp=Y>
17. JINESCU Ghe., **TEBRENCU C.E.**, MIHAILESCU D.M, ISOPENCU G., MARES M. **2009**. *Vitamin C and flavones degradation during the drying process of the wild-rose materials*. REVISTA DE CHIMIE, vol. 60, nr.4: 403-411. ISSN 0034-7752, **IF 2008: 0,389**, <http://www.revistadechimie.ro/pdf/JINESCU%20Gheorghita.pdf>; <http://sub3.webofknowledge.com>
Citation:
 (1) Ghe. Jinescu, D.M. Mihăilescu, G. Isopencu, A. M. Mares. 2009. *Contributii la modelarea cineticii uscării prin pulverizare a extractului din fructe de maces*. Revista de chimie, vol. 60, nr.4: 403-411. ISSN 0034-7752. <http://www.revistadechimie.ro/pdf/cuprins%206%202009.pdf>
18. WOINAROSCHY L., JINESCU Ghe., **TEBRENCU C.E.** **2000**. *Aplication of Neural Nets for Optimization of Vibro-Fluidization*

Citation:

- (1) Gheorghita Jinescu. 2004. *The romanian School Contributions On The Oscillations Influence In The Intensification of Process Transfer in Gas Fluidized Bed. Drying 2004 – Proceedings of the 14th International Drying Symposium (IDS 2004), São Paulo, Brazil, 22-25 August 2004, vol. A: 272-279, <http://www.feq.unicamp.br/~ids2004/volA/pp%20272-279.pdf>*
19. **TEBRENCU C.E., JINESCU Ghe.. 1995.** *Uscarea poliamidelor aromatice in transport pneumatic.* REVISTA DE CHIMIE, vol.46, nr.3: 277-282, IF 1995: 0,81 , ISSN 0034-7752.
Citation:
Ghe. JINESCU, **C.E. TEBRENCU**, D.M. MIHAILESCU, G. ISOPENCU, M. MARES. 2009. *Vitamin C and flavones degradation during the drying process of the wild-rose materials.* Revista de chimie, vol. 60, nr.4: 403-411. ISSN 0034-7752. <http://www.revistadechimie.ro/pdf/JINESCU%20Gheorghita.pdf>; <http://sub3.webofknowledge.com>
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- 3 OANA TEODORA CIUPERCĂ, **CARMEN ELENA ȚEBRENCU**, LILIANA LAZĂR, ELENA IONESCU, IRINA VOLF (2018) *Investigation on microwave assisted extraction process of some polyphenols from branches of Prunus spinosa L.* 4th International Conference on Chemical Engineering - Innovative materials and processes for a sustainable development - ICCE2019, 31 october - 2 november 2018, "Gh. Asachi" Technical University of Iasi, Romania. Poster P-24. <http://www.ch.tuiasi.ro/ICCE2018/>
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- 8 **TEBRENCU C.E.**, IONESCU E., 2015, "Authentification of medicinal and aromatic plants", Sesiunea Științifică de Toamna a Academiei Oamenilor de Știință din România, 24-26 septembrie, Iasi, prezentare orală
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ANNEXE 2

EXPERIENCE IN NATIONAL / INTERNATIONAL PROGRAMS/PROJECTS

Project Manager

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>

Partner Team Leader : 6 national projects and 1 international project

1. **Project CEEx-BIOTECH-Research contract 21/2005-** “Phytoproducts with antiaging potential obtained through biotechnology”
http://www.dbioro.eu/proiecte/contracte_ceex-463-640-ro.html
2. **Project PN II- Research contract 156 C/ 2012-.,** Isolation of fitocompletes with antioxidant action useful in food integrators”, 2012-2013, <http://www.ccb-stejarul.ro/FITALOX.html>
3. **Project PN II- Research contract 51-055/ 2007-**“Agro-Sylvic Strategies to Capitalize and Preserve the Biodiversity of Medicinal Plants in the Context of Sustainable Rural Development on the Upstream Bistrita” www.stejarul-medagrosilv.ro;
http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
4. **Project PN II – PARTNERSHIPS IN PRIORITY AREA – Research contract 114/2012 -** “ Superabsorbents biopolymers materials for agriculture uses ”, <http://sabiom.ro/en/>
5. **Project PN II-PT-PCCA-2013-4-0791 – Research contract 741/2012 –**“Development of a functional model for sustainable capitalization of genetic and phytochemical diversity of *Arnica montana* L. wild population in the Northern area of the Romanian Eastern Carpathians”, <http://ccb-stejarul.ro/2014/ARMOREC.html>
6. **Project PN-III-P2-2.1-PED-2016-1604 – Research contract 192PED/2017 –** “Advanced and emergent technologies to obtain vegetal extracts used in innovator food supplements” - TEVIS, 2017-2018; <https://tevisped.webs.com/>
7. **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”, 2015 – 2017; <https://phytoauthent.webs.com/>
8. **PNCDI III P2-2.2-PED-2019-3945 – Proiect experimental demonstrativ –** Dezvoltarea de noi fito-produse cu potential bioactiv ridicat utilizand complexe polifenolici din plante si subproduse vegetale (2020 - 2022)
9. **PED-2021-1870/ 646PED/2022 - Proiect experimental demonstrativ -** Ecotehnologie de obtinere a unor fitoingrediente incapsulati in hidrogel pe baza de complexe bioactivi imobilizati in matrice de hidroxizi dubli lamelari (2022 -2023); DUACTIVMER.pdf (unibuc.ro)

Key expert :

1. **Project AMCSIT/ RELANSIN - Research contract 1455/2001-**„Technology for obtaining a selectively extract with proanthocyanins and catechols” 2001-2004, <http://www.inovare.amcsit.ro/2007/downloads/relansin.pdf?&wchk=2e79bb113437c7118f21e9c11292b722>
<http://www.inovare.amcsit.ro/2007/downloads/relansin.pdf?&wchk=2e79bb113437c7118f21e9c11292b722>
2. **Project AMCSIT/ RELANSIN – Research contract 1506/2001-**“Obtaining of a new natural product containing anthocyanins”, 2001-2004, <http://www.inovare.amcsit.ro/2007/downloads/relansin.pdf?&wchk=2e79bb113437c7118f21e9c11292b722>
3. **Project AMCSIT/ RELANSIN - Research contract 1549/2001-**“Technology to obtain a phytochemical complex enriched in hypericin”, 2001-2004, <http://www.inovare.amcsit.ro/2007/downloads/relansin.pdf?&wchk=2e79bb113437c7118f21e9c11292b722>
4. **Project BIOTECH- Research contract 3310/2003-**“Antimicrobial and antiviral Bioproducts used to treat mouth disease”, 2003-2005, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
5. **Project AMCSIT/ RELANSIN - Research contract 1856/2003-** „Gallic acid-phytochemical complex raw material for obtaining a drug to treat parasites”, 2003-2005, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
6. **Project AGRAL - Research contract 211/2003-** “Optimizing the bioavailable nutrient content in Glycine max (soybean) by treatment with plant fertilizer”, 2003-2005, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
7. **Project AMCSIT/ RELANSIN – Research contract 2059/2002-** “Herbal product based flavonoid compounds with a role in treating menopausal osteoporosis”, 2003-2005, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
8. **Project BIOTECH - Research contract 4694/2004 –**„Obtaining a bioactive biocomplex with stimulating peripheral circulation”, 2004-2006, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
9. **Project CEEEx-AGRAL - Research contract 15/2005-** „ Characterization of some plant and fungal bioactive principles with cytostatic, immunomodulatory, metabolic and neurotropic actions and its application in functional food”, 2005-2008, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
10. **Project CEEEx-RELANSIN - Research contract 148/2006-** „Imprinted polymer structures for molecular recognition of bioactive complexes phytoextracts”, 2006-2008, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
11. **Project CEEEx-BIOTECH – Research contract 77/2006-**“Getting through performing technologies of neuro preparations acting on the system immunocutaneat”, 2006-2008, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf ; http://www.dbiuro.eu/proiecte/contracte_ceex-463-640-ro.html
12. **Project PN II Partnerships in priority areas- Research contract 510-060/2007-**“Obtaining some phytopreparations with action on cardiovascular disease prevention “, 2007-2010, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
13. **PROGRAM 4- Partnerships in priority areas – Research contract 61-039/2007 -** “Biotechnologies for the obtaining of vegetal metabolites used in orthomolecular prophylaxis and therapy” 2007-2010; <http://stejarul.com/en/61-039>;
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14. **Project PN II -Research contract 31-061/2007-**“Uncontaminated vegetal extracts used in phytotherapy obtained by means of unconventional technologies”, 2007-2010,<http://stejarul.com/en/31-061>; http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
15. **Project INOVARE – Research contract 33/2007 -** „Phytopreparations with role in counteraction of metabolic disorders” - 2007-2010; http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
16. **PN II – PARTNERSHIPS IN PRIORITY AREA - Research contract 117/2012 Project:** “Spontaneous flora exploitation nanotechnology to obtain concentrates with high bioactivity hypericin - SPOFLORAHYP”, 2012 - 2016;
17. **PN II-PT-PCCA-2013-4-0034 - Research contract 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; <http://www.incdsb.ro/p/NEWBIOVECT/index.htm>
18. **PN II – PARTNERSHIPS IN PRIORITY AREA - Research contract 154/2012 Project:** “Hybrid materials polymer- porous clay heterostructures type for controlled release of drugs - DELPOCLAY”, 2015 - 2016; <http://www.tsocm.pub.ro/cercetare/DELPOCLAY/>
19. **PN II-PT-PCCA-2013-4-0361- Research contract 145/2014 Project:** “Higher valorization of vegetal by-products and wastes to support sustainable use of natural resources - HIVEGRES”, 2015 - 2017; <http://www.incdsb.ro/p/HIVEGRES/Proiect.html>
20. **PN-III-P2-2.1-PED-2016-1247 – 188PED/2017 –**“New safe phytoextracts from tree species in the Carpathians with potential to improve human and / or animal health” - EXTRACTREES, 2017-2018; <https://www.icbiasi.ro/extractrees/>
21. **Contract subsidiar tip D nr. 13/21.12.2018 - "Cercetări privind obținerea de suplimente alimentare pe bază de plante medicinale, micronutrienți și alți ingrediente alimentare cu rol fiziologic și nutrițional"** al Contractului de finanțare nr. 57/05.09.2016/, cu titlul “Valorificarea expertizei în cercetarea agro-alimentară prin transfer de cunoștințe către mediul privat în vederea obținerii de produse alimentare sigure și optimizate nutrițional - Expertal” - **Competiție POC, Axa1: CDI în sprijinul competitivității economice și dezvoltării afacerilor, Acțiunea 1.2.3 Parteneriate pentru transfer de cunoștințe - Cod SMIS 2014+ 105509 - durata proiectului 26 luni (2018 - 2021).**
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Researcher/ Specialist:8 projects

1. **Project CALIST – Research contract 1116/2000-**„Implementation of modern analysis and measuring methods of natural products biochemical and bacteriological characteristics, 2000-2001
2. **Project AGRAL - Research contract 181/2001 –**“Obtaining of a new product with like- alomones active principles, refined as pesticides”, 2001-2003, http://www.mct.ro/img/files_up/11406885435%20AGRAL02.pdf
3. **Project AMCSIT/ RELANSIN - Research contract 1456/2001-**“Technology for obtaining natural coumarins used as an intermediate in technical pharmaceutical products- manufacturing, and for obtaining of lacquers and photo- stabilizing paints „, 2001-2004,
4. **Project INFRAS – Research contract 92/2001-** „Technical and professional development of testing laboratory in order to align it to SR EN ISO 17025”,2001-2003,
5. **Project-CALIST - Research contract 4118/2003** “The method of measuring performance and procedures related to residual pesticides in medicinal plant products”, 2003-2005 http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
6. **Project CALIST - Research contract 5114/2004-** “Fast gas chromatography method for measuring the volatile oils”, 2004-2006,

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7. **Project CALIST- Research contract 5137/2004-** "Control method of physical stability of emulsions by determining the rheological properties", 2004-2006, http://www.plantavorel.ro/docs/anexa_4.3.2.pdf
8. **Operational Sectorial Programme "Development of Economic Competitiveness" "Investments for your future"**, Including in current portfolio of new products as nutritional supplement with immunomodulatory and antioxidant characteristics, resulted by refinement of previous research results", 2010-2011, <http://www.plantavorel.ro/ro/cercetare.php> ; <http://www.fonduri-ue.ro/proiecte-contractate-236>

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1. TOC VALER, **TEBRENCU CARMEN ELENA**, "CONTINUOUS PROCESS OF PERSULFATS FLUIDIZED BED DRYING", **Patent number: 95.896/1989**
2. TOC VALER, **TEBRENCU CARMEN ELENA**, "DRYING PROCESS AND PLANT AROMATIC POLYAMIDE", **Patent number: 104.736/1994**, <http://sub3.webofknowledge.com>
3. SAUCIUC ARIADNA, **TEBRENCU CARMEN ELENA**, TOC VALER, " PROCESS AND PLANT FOR THE SYNTHESIS OF GLYCERYL MONOSTEARAT ", **Patent number : 103.107/1994**
4. MIHAILESCU R.L., **TEBRENCU C.E.**, CHIRIAC M., IONESCU E., DUMENCU D., VETERINARY PHITOTHERAPEUTIC PRODUCT WITH RUMINAL ACTIVITY AND PROCESS FOR PREPARING THE SAME", **Patent number : 116.163b1/2000**
<http://www.breveteonline.ro/brevet/pdf/9700161-produs-fitoterapeutic-de-uz-vetarinar-cu-actiune-ruminala-si-procedeu-de-obtinere-a-acestui-a-32040138.pdf> ; <http://sub3.webofknowledge.com>
5. MITITELU M., MIHAILESCU R.L., **TEBRENCU C.E.**, IONESCU E., CHIRIAC M., „NATURAL DIETETIC PRODUCT WITH HYPOLIPEMIANT ACTION", **Patent number: 112 160B1/1997**, <http://www.breveteonline.ro/brevet/pdf/9502054-produs-dietetice-natural-cu-actiune-hipolipemianta-48446053.pdf> ; <http://sub3.webofknowledge.com>
6. HARABAGIU L.M., IONESCU E., MITROI G.R., MIHAILESCU L.R., **TEBRENCU C.E.**, CHIRIAC M., „HERBAL ANTIDEPRESSANT ANTINEURALGIC AND SEDATIVE MEDICATION COMPOSITION", **Patent number : 115326b1 /2000**, <http://www.breveteonline.ro/brevet/pdf/9701421-compozitie-medicamentoasa-antidepresiva-antinevralgica-si-sedativa-de-origina-vegetala-04759056.pdf> ; <http://sub3.webofknowledge.com>
7. MIHAILESCU R., **TEBRENCU C.E.**, CHIRIAC M., MITROI R.G., IONESCU E., „PROCESS FOR PREPARING A BIOACTIVE PHYTOCOMPLEX OF *PLANTAGINIS SPECIES FOLIUM* MEANT FOR DISEASES OF THE RESPIRATORY SYSTEM", **Patent number : 117505B1 / 2002**, <http://www.breveteonline.ro/brevet/pdf/9800489-procedeu-de-obtinere-a-fitocomplexului-bioactiv-din-plantaginis-species-folium-destinat-afectiunilor-aparatului-respirator-43371146.pdf> ; <http://sub3.webofknowledge.com>
8. GRIGORAS N., PERTA L., **TEBRENCU C.E.**, IONESCU E., „PROCESS FOR PREPARING AN ACTIVE COMPLEX WITH HEMOSTATIC, ANTISEPTIC, ANTIDIARRHEAL AND ANTIOXIDANT EFFECTS FROM *ROSA CANNINA*", **Patent number : 117 504B1/ 2002**, <http://www.breveteonline.ro/brevet/pdf/9800488-procedeu-de-obtinere-a-unui-complex-activ-din-rosa-canina-cu-actiune-hemostatica-antiseptica-antidiareica-antioxidanta-32371145.pdf> ; <http://sub3.webofknowledge.com>
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