

Europass Curriculum vitae



Informații personale

Nume / Prenume

Madalina Georgiana Albu Kaya

Telefon

Fax

E-mail

Nationalitate

Romana

Sex

Feminin

Experiența profesională

Perioada

Decembrie 2023 - prezent

Funcția sau postul ocupat

Vicepresedintele Consiliului Stiintific al INCDTP

Perioada

1 februarie 2018 - prezent

Funcția sau postul ocupat

Cercetator Stiintific Gradul I

Perioada

2014 - 2018

Funcția sau postul ocupat

Cercetator Stiintific Gradul II

Perioada

2011 - 2017

Funcția sau postul ocupat

Sef Departament Cercetare Collagen si Sef Statie Productie Collagen

Secretarul Consiliului Stiintific al INCDTP (2011-2017)

Perioada

2007 - 2011

Funcția sau postul ocupat

Loctiitor Sef Departament Collagen

Perioada

2006 – 2013

Funcția sau postul ocupat

Cercetator Stiintific Gradul III

Perioada

2001-2006

Funcția sau postul ocupat

Chimist, doctorand

Activități și responsabilități principale

- Obținerea collagenului in diferite forme: gel / hidrogel, membrane, matrici, tuburi, hidrolizate utilizate in medicina, farmacie, stomatologie si cosmetica;
- Caracterizare fizico-chimica si fizico-mecanica, morfologica, microbiologica a gelurilor si matricilor;
- Certificare si notificare dispozitive medicale si produce cosmetice;
- Colaborari cu specialistii din domenii complementare;

Numele și adresa angajatorului

- Director, responsabil sau membru in echipele de cercetare a numeroase proiecte nationale si internationale.

Institutul National de Cercetare-Dezvoltare pentru Textile si Pielarie Bucuresti, Sucursala Institutul de Cercetare Pielarie Incaltaminte, Departament Colagen
Str. IonMinulescu,nr. 93, 031215,sector3,Bucuresti,Romania

Tipul activității sau sectorul de activitate

Cercetare, dezvoltare, inovare, productie, comercializare
Biomateriale pe baza de colagen

Educatie si formare

Studii

Perioada

2013 (aprilie – mai – 35 zile)

Calificarea / diploma obținută

Schimb de experineta pentru cercetatori suportat de Societatea Japoneza pentru Promovarea Stiintei- JSPS (Japan Society for Promotion of Science) - NASR Researcher Exchange Program
Rezonanta magnetica nucleara (RMN) a biomaterialelor colagenice

Disciplinele principale studiate / competențe profesionale dobândite

Numele și tipul instituției de învățământ / furnizorului de formare

Universitatea din Osaka, Japonia, Institutul de Cercetarea Proteinelor, Departamentul de Biologia Structurala a Proteinelor, Laboratorul de Biofizica Moleculara (Prof. Fujiwara Lab)

Perioada

Ianuarie – Decembrie 2011 (un an)

Calificarea / diploma obținută

Postdoctorat in Biotehnologii

Disciplinele principale studiate / competențe profesionale dobândite

Proiect postdoctorat: Suporturi colagenice 3D cu continut de uleiuri esentiale pentru aplicatii terapeutice, training-uri, activitati de cercetare, cursuri, seminarii

Numele și tipul instituției de învățământ / furnizorului de formare

Universitatea Politehnica Bucuresti, Proiect POSDRU/89/1.5/S/52432 din 2010, Organizarea școlii postdoctorale de interes național "BIOTEHNOLOGII APLICATE" cu impact în bioeconomia românească, proiect cofinantat de Fondul Social European prin Programul Operațional Sectorial Dezvoltarea Resurselor Umane 2007 – 2013."

Perioada

2001 – 2009 (8 ani)

Calificarea / diploma obținută

Doctor in Chimie

Disciplinele principale studiate / competențe profesionale dobândite

Doctorat in specialitatea Chimie, titlu teza: Geluri si matrici colagenice cu diferite grade de hidratare si structura cvasisolida pentru aplicatii biomedicale

Numele și tipul instituției de învățământ / furnizorului de formare

Facultatea de Chimie, Universitatea din Bucuresti

Perioada

Octombrie 2000 – Iunie 2002

Calificarea / diploma obținută

Diploma de master

Disciplinele principale studiate / competențe profesionale dobândite

Master in specialitatea: Chimie – Fizica si Radiochimie AplicataTitlu lucrarii de dizertatie: Obtinerea si caracterizarea reologica a unor geluri si matrici colagenice

Numele și tipul instituției de învățământ / furnizorului de formare

Facultatea de Chimie, Universitatea din Bucuresti

Perioada

Octombrie 1996 – Iunie 2000

Calificarea / diploma obținută

Diploma de licenta

Disciplinele principale studiate / competențe profesionale dobândite

Chimie – Fizica, Titlu lucrarea de diploma: Corelarea proprietatilor surfactantilor cu proprietatile detergente

Numele și tipul instituției de învățământ / furnizorului de formare

Facultatea de Chimie, Universitatea din Bucuresti

Educatie si formare

Cursuri

Perioada	8 -12 aprilie 2024
Calificarea / diploma obținută	Certificat de absolvire
Disciplinele principale studiate / competențe profesionale dobândite	Managementul rezultatelor din Cercetare Dezvoltare
Numele și tipul instituției de învățământ / furnizorului de formare	IRECSON Bucuresti
Perioada	2 Octombrie 2023 – 30 Ianuarie 2024
Calificarea / diploma obținută	Certificat de absolvire
Disciplinele principale studiate / competențe profesionale dobândite	Medical Device Regulations
Numele și tipul instituției de învățământ / furnizorului de formare	UDEMY
Perioada	28 iunie – 28 septembrie 2023
Calificarea / diploma obținută	Certificat de absolvire
Disciplinele principale studiate / competențe profesionale dobândite	Management Skills - Team Leadership Skills Masterclass
Numele și tipul instituției de învățământ / furnizorului de formare	UDEMY
Perioada	1 martie – 24 aprilie 2023
Calificarea / diploma obținută	Certificat de absolvire
Disciplinele principale studiate / competențe profesionale dobândite	Medical Device Regulation 2017/745 EU regulatory affairs
Numele și tipul instituției de învățământ / furnizorului de formare	UDEMY
Perioada	6-17 februarie 2023
Calificarea / diploma obținută	Certificat de absolvire, 100 puncte
Disciplinele principale studiate / competențe profesionale dobândite	Introduction to working in Medical device Industry
Numele și tipul instituției de învățământ / furnizorului de formare	Medical device HQ, GANTUS AB
Perioada	Octombrie - noiembrie 2012 (2 saptamani)
Calificarea / diploma obținută	Certificat de absolvire
Disciplinele principale studiate / competențe profesionale dobândite	Broker de tehnologii – Cursuri in cadrul proiectului “Program de dezvoltare a resurselor umane din cadrul entităților Rețelei Naționale pentru Inovare și Transfer Tehnologic (ReNITT) în domeniul managementului în vederea eficientizării procesului de transfer tehnologic”.
Numele și tipul instituției de învățământ / furnizorului de formare	IRECSON Bucuresti
Perioada	Noiembrie 2011 (o luna)
Calificarea / diploma obținută	Postdoctorat in Biotehnologii
Disciplinele principale studiate / competențe profesionale dobândite	Stagiu postdoctorat – activitati de cercetare
Numele și tipul instituției de învățământ / furnizorului de formare	Grupul pentru Cercetarea Avansata a Biomaterialelor, Universitatea de Tehnologie Chimica si Metalurgie, Sofia, Bulgaria (Prof. DSc Todorka Vladkova)

Perioada
Calificarea / diploma obținută
Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de
învățământ / furnizorului de formare

Ianuarie – martie 2011 (3 luni)

Certificate de absolvire

Cursuri in cadrul programului postdoctoral POSDRU/89/1.5/S/52432

- Tehnici informatice aplicate in biotehnologii;
- Brevetarea rezultatelor si proprietate intelectuala;
- Managementul cercetarii avansate;
- Biotehnologii inovatoare: tehnici si metodologii;
- Aspecte de bioetica;
- Cultura antreprenoriala in biotehnologie.

Universitatea Politehnica Bucuresti, Proiect POSDRU/89/1.5/S/52432 din 2010, Organizarea școlii postdoctorale de interes național "BIOTEHNOLOGII APLICATE" cu impact în bioeconomia românească, proiect cofinanțat de Fondul Social European prin Programul Operațional Sectorial Dezvoltarea Resurselor Umane 2007 – 2013."

Perioada
Calificarea / diploma obținută
Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de
învățământ / furnizorului de formare

Iunie 2008 (o saptamana)

Certificat de absolvire

9thAdvanced Summer Course in Cell-Material Interactions – Bioinspired matrices for tissue regeneration

Institutul pentru Biologie Celulara si Moleculara (IBMC) / Instituto de Engenharia Biomédica-Associate Laboratory, Porto, Portugal

Perioada
Calificarea / diploma obținută
Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de
învățământ / furnizorului de formare

Iunie 2006(3 saptamani)

Certificat de absolvire

Managementul proiectelor de Cercetare Dezvoltare

Academia de Științe Economice, Bucuresti

Perioada
Calificarea / diploma obținută
Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de
învățământ / furnizorului de formare

Septembrie – Noiembrie 2006 (3 luni)

Certificat de absolvire

Curs intensiv de Engleza

SC PICON SA Perfectionare – Informatica - Consultanta, Bucuresti

Perioada
Calificarea / diploma obținută
Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de
învățământ / furnizorului de formare

Mai - Iunie 2001(6 saptamani)

Certificat de absolvire

Instruire si asistenta pentru ingineria proiectelor

Academia de Științe Economice, Bucuresti Universitatea Politehnica din Bucuresti

Activitate didactica

Perioada
Activitate desfasurata
Numele și tipul instituției de
învățământ participant la instruire /
participanti

24 iulie – 11 august 2023 (3 saptamni)

Pregatire profesionala / Tutore stagiu de practica

Leather Department, Izmir, Turcia Pregatire profesionala in cadrul programului Erasmus
1 doctorand

Perioada	24 iulie – 18 august 2023 (4 săptămâni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Eskisehir Tehnical University, Industrial Engineering Faculty, Eskisehir, Turcia Pregatire profesionala – practica industriala, 1 student
Perioada	1 octombrie 2022 – 30 septembrie 2023 (1 an)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica București, Proiectul cu titlul „Pregătirea doctoranzilor și cercetătorilor poStdctorat în vederea dobândirii de coMpetente de cercetARE aplicaTivă - SMART”, Cod SMIS: 153734 - 2 doctoranzi
Perioada	19.06.2017-8.09.2017 (3 luni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica București, Facultatea Inginerie Medicală, anul III, specializarea Biomateriale și Dispozitive Medicale, grupa 1431 – 5 studenți Universitatea Politehnica din Bucuresti, Facultatea Chimie Aplicata si Stiinta Materialelor, anul III, seria SIPOI – 1 student
Perioada	20.06.2016-10.09.2016 (3 luni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica București, Facultatea Inginerie Medicală, anul III, specializarea Biomateriale și Dispozitive Medicale, grupa 1431 – 4 studenți
Perioada	22.06.2015 – 11.09.2015 (3 luni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica din București, Facultatea de Inginerie Medicală, anul III, grupa 1432 – 4 studenți Ege University, Leather Department, Izmir, Turcia Pregatire profesionala in cadrul programului Erasmus – 1 student
Perioada	16.06.2014 – 29.08.2014 (3 luni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica din București, Facultatea de Inginerie Medicală, anul III, grupa 1431 A – 3 studenți, Facultatea Chimie Aplicata si Stiinta Materialelor, anul III, seria SIPOI – 5 studenți Ege University, Leather Department, Izmir, Turcia Pregatire profesionala in cadrul programului Erasmus – 2 studenți
Perioada	17 iunie – 6 septembrie 2013 (3 luni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor, seria A, grupa 1131 – 4 studenți
Perioada	30 mai – 12 iunie 2013 (2 săptămâni)
Activitate desfasurata	Pregatire profesionala / Tutore stagi de practica
Numele și tipul instituției de învățământ participant la instruire / participanți	Universitatea Politehnica Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor, Master Stiinta si Ingineria Polimerilor, anul II – 1 student
Perioada	4 – 8 martie 2013 (o săptămâna)
Activitate desfasurata	Pregatire profesionala in cadrul programului Erasmus

Numele și tipul instituției de învățământ participant la instruire / participanți

Perioada

Activitate desfasurata

Numele și tipul instituției de învățământ participant la instruire / participanți

Perioada

Activitate desfasurata

Numele și tipul instituției de învățământ participant la instruire / participanți

Perioada

Activitate desfasurata

Numele și tipul instituției de învățământ participant la instruire / participanți

Perioada

Activitate desfasurata

Numele și tipul instituției de învățământ participant la instruire / participanți

Perioada

Activitate desfasurata

Numele și tipul instituției de învățământ participant la instruire / participanți

Perioada

Activitate desfasurata

Numele și tipul instituției de învățământ participant la instruire / participanți

Aptitudini și competențe personale

Limba maternă

Limbi străine cunoscute

Autoevaluare

Nivelul european

Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art

2013– 2014 (1 an)

Coordonator in cotutela lucrare de master

Ege University, Leather Department, Izmir, Turcia

Masterand: Cemile Ceren Tosun

Iulie – octombrie 2012 (3 luni)

Pregatire profesionala in cadrul programului Erasmus

Ege University, Leather Department, Izmir, Turcia

Masterand: Cemile Ceren Tosun

3 iunie – 24 august 2012 (12 saptamani)

Pregatire profesionala / Tutore stagiul de practica

Universitatea Politehnica Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor, seria A, grupa 1131 – 3 studenti

iunie – septembrie 2011

Pregatire profesionala / Tutore stagiul de practica

Universitatea Politehnica Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor, seria A, grupa 1131 – 5 studenti

5 – 23 iulie 2010

Pregatire profesionala / Tutore stagiul de practica

Universitatea Politehnica Bucuresti, Facultatea de Stiinta si Ingineria Materialelor, Specializarea Ingineriei Medicala, din anul II si III - 65 studenti

2009 - prezent

Suport tehnic in realizarea lucrarilor de diploma

Universitatea de Medicina si Farmacie „Carol Davila”, Fcaultatea de Farmacie – 7 studenti, din care 3 au primit premii si mentiuni la sesiunile de comunicari studentesti

Romana

Intelegere		Vorbire		Scriere Exprimare scrisa
Ascultare	Citire	Participare la conversatie	Discurs oral	

Engleza
Franceza

C2	C2	C2	C2	C2
B1	B1	B1	B1	B1

^(*)Common European Framework of Reference (CEF) level

Competențe și abilități sociale

- Responsabilitate, corectitudine și încredere în sine
- Capacitatea de a stabili și a menține relații bune de colaborare cu cercetători din diferite instituții
- Capacitatea de rezolvare a problemelor
- Creativitate, ambiție, punctualitate
- Adaptarea la munca în echipă

Competențe și aptitudini organizatorice

- Experiența în managementul și logistica proiectelor de cercetare, atât ca director, responsabil și lider de pachete de lucru

Competențe și aptitudini tehnice

- Experiența în domeniul biomaterialelor
- Obținerea collagenului în diferite forme de gel, hidrogel, membrane, matrici, pudre, tuburi;
 - Tehnici de liofilizare;
 - Obținerea biomaterialelor compozite pe baza de collagen și alți polimeri naturali sau sintetici, medicamente, ceramici, extracte;
 - Caracterizarea reologică a gelurilor / hidrogelurilor de collagen;
 - Stabilirea cineticii și mecanismului de eliberare a medicamentelor din suporturi collagenice;
 - Spectroscopie FT-IR, UV-vis-NIR spectroscopy, C^{13} și N^{15} RMN;
 - Analize termice DTATGA și DSC;
- Competitivitate în munca
- Implicarea în certificarea Managementului Sistemului de Calitate conform SR EN ISO 9001:2008 și SR EN ISO 13485:2016 pentru Stația de Producție Collagen și certificare și recertificarea produselor pe baza de collagen, marca CE1868

Competențe și aptitudini de utilizare a calculatorului

Operare Microsoft Office (Word, Excel, PowerPoint, Outlook), Internet Explorer, Origin, LyoLogLL-1

Competențe și aptitudini artistice

- Autoperfecționare continuă, creativitate
- Participare la Emisiunea **Planeta Radio - știința la ea acasă**, realizator Mihaela Ghita, 16.03.2010, orele 17.00-17.45, la Radio România Cultural
 - Interviu în cadrul Salonului de Cercetare 2010 de la Romexpo în perioada 6-9 octombrie 2010, la **posturile de radio: Viața Satului și România Actualități, Emisiunile Stiri**.
 - Interviu și apariții la stiri la PROTV, Antena 1, Kanal D, Money Channel etc.

Permis de conducere

Permis de conducere categoria B

Informații suplimentare

Recenzor la următoarele jurnale internaționale:

- Acta Biomaterialia
- Biomedical materials
- Materials Science and Engineering C
- Polymer Bulletin
- Journal of Biomaterials Applications
- Journal of Tissue Engineering and Regenerative Medicine
- Central European Journal of Chemistry

Evaluator internațional proiecte de cercetare: Czech Science Foundation și Bulgarian National Science Fund, European Commission – HORIZON, European Commission – Accelerator Grant

Citari în SCOPUS: 2226 (fără autocitari), H index – 29, accesat la 19.09.2025

Membru în societăți științifice:

- Societatea Română de Biomateriale (2004 – prezent) – membru în Consiliu Director
- Societatea Română de Reologie (2009 – prezent)

Anexe

Anexa1–Lista cartilor si capitolelor de carte publicate(**3 carti, 9 capitole carte**)

Anexa 2–Lista articole publicate in reviste ISI internationale (**98**)

Anexa 3 – Lista articole publicate in reviste ISI nationale (**57**)

Anexa 4 – Lista articole publicate in reviste neindexate ISI (**42**)

Anexa 5 –Lista articole publicate in proceeding-uri ISI ale conferintelor internationale (**13**)

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Anexa 12 – Medalii (**55**)

Anexa 13 – Premii (**52**)



Lista cartilor si capitolelor de carte publicate

Carti (3)

1. **M.G. Albu**, "Collagen gels and matrices for biomedical applications", Lambert Academic Publishing, Saarbrücken. **2011**. ISBN 978-3-8443-3057-1.
2. V. Trandafir, G. Popescu, **M. G. Albu**, H. Iovu, M. Georgescu, „Bioproduse pe baza de colagen”, Editura Ars Docendi, Bucuresti, **2007**. ISBN: 978-973-558-291-3.
3. M. V. Ghica, L. Popa, C. Dinu-Pîrvu, M. Leca, **M. G. Albu Kaya**, Chimia-fizică a medicamentului. Vol. III Polimeri. Proprietăți fizico-chimice. Aplicații biomedicale, Printech, Bucuresti, **2016**, ISBN 978-606-521-995-3, 978-606-23-0659-5

Capitole de carte (9)

4. **M. G. Albu**, I. Titorencu, M. V. Ghica, Collagen-Based Drug Delivery Systems for Tissue Engineering, Biomaterials Applications for Nanomedicine, Prof. Rosario Pignatello (Ed.), **2011**, ISBN: 978-953-307-661-4, InTech, Available from: <http://www.intechopen.com/books/biomaterialsapplications-for-nanomedicine/collagen-based-drug-delivery-systems-for-tissue-engineering>.
5. I. Titorencu, V. Jinga, **M. G. Albu**, "The future of cardiovascular medicine: Biomaterials for tissue therapy" in "From Vascular Cell Biology to Cardiovascular Medicine", Research Signpost, **2011**. ISBN 978-817-895-503-2.
6. Z. Vuluga, C-G. Potarniche, **M. G. Albu**, V. Trandafir, D. Iordachescu, E. Vasile. Collagen - Modified Layered Silicate Biomaterials for Regenerative Medicine of Bone Tissue, Materials Science and Technology, Prof. Sabar Hutagalung (Ed.) **2012**, ISBN: 978-953-51-0193-2, InTech, Available from: <http://www.intechopen.com/books/materials-science-and-technology/collagenmodified-layered-silicate-biomaterials-for-regenerative-medicine-of-bone-tissue>.
7. I. C. Stancu, A. Lungu, **M. G. Albu**, H. Iovu. Concept and design of polymer scaffolds with controlled biodegradability and porosity for tissue engineering applications in "Advanced biocompatible structures for perspective bioengineering: Concepts and Strategies", The Publishing House of the Romanian Academy, Bucharest, Romania, **2013**. ISBN 978-973-27-2317-3
8. V. Deselnicu, **M. G. Albu**. Collagen functionalisation and system for simulation of leather tanning in „Inovation and competitiveness in leather field”, Agir Publishing House, Bucharest, 2014.
9. **M. G. Albu**. Biomaterials obtained from wet-white waste with cosmetics applications in in „Inovation and competitiveness in leather field”, Agir Publishing House, Bucharest, 2014.
10. I. Antoniac, **M. G. Albu**, A. Antoniac, L. C. Rusu, M. V. Ghica, „Collagen – Bioceramics Smart Composites”, Handbook of Bioceramics and Biocomposites, Springer International Publishing, 2016, pp 301-324, ISBN: 978-3-319-09230-0.
11. Fica, D., Albu, M. G., Sonmez, M., Fica, A., Andronescu, E., Advances in the field of soft tissue engineering: From pure regenerative to integrative solutions in "Nanobiomaterials in Soft Tissue Engineering: Applications of Nanobiomaterials", Elsevier, Oxford, 2016, pg. 355-386, doi:10.1016/B978-0-323-42865-1.00017-9.
12. S. Dinescu, **M. Albu Kaya**, L. Chitoiu, S. Ignat, D.A. Kaya, M. Costache, Collagen-Based Hydrogels and Their Applications for Tissue Engineering and Regenerative Medicine in "Cellulose-Based Superabsorbent Hydrogels", Springer International Publishing, 2019, DOI 10.1007/978-3-319-77830-3_54

Lista articole publicate in reviste ISI internationale

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50. E.E. Tudoroiu, M.V. Ghica, **Madalina Georgiana Albu Kaya**, C.E. Dinu-Pîrvu, L. Popa, V. Anuța, Maria Minodora Marin, A. Antoniac, Ciprian Chelaru, R.M. Prisada,, Evaluarea compatibilității matricilor de colagen și metilceluloză proiectate pentru aplicații biomedicale, Congresul Național de Farmacie din România (CNFR), ediția a XIX-a, Cluj-Napoca, 27-29.09.2023.

Lista proiectelor internationale (20)

Director de proiect (8)

1. Proiect bilateral Romania-Cipru nr. 217/2009: Studii asupra cedarii controlate a medicamentelor antipsoriazice din suporturi colagenice (matrice) cu diferite grade de hidratare (2008-2009)
2. Proiect bilateral Romania-Turcia nr. 377/2010: Biomateriale colagenice cu zeolit si ulei esential pentru tratamentul infectiilor pielii (2010-2011)
3. Proiect bilateral Romania-China, 502/2011: Sisteme de cedare a medicamentelor pe baza de polimeri naturali (2011-2012)
4. Proiect bilateral Romania – Turcia, 601/2013, Noi biomateriale pentru acoperiri cu proprietati antimicrobiene pentru imbunatatirea performantelor implanturilor medicale (2013-2014)
5. Proiect bilateral Romania-Japonia, 725/10.04.2013, Studii de spectroscopie de rezonanta magnetica nucleara (RMN) pe biomaterialele colagenice(2013)
6. Proiect bilateral Romania – China, 69/2016 Biomateriale compozite cu medicamente pentru complicatii postoperatorii (2016 – 2017)
7. M ERA NET 73/2024, Smart rumen composites for metabolic diseases (2024 – 2027)
8. Proiect bilateral Romania - Turcia, 9BMTR (PN-IV-P8-8.3-PM-RO-TR-2024-0059) Dezvoltarea de biomateriale filmogene pentru profilaxia mastitei (2025-2026)

Responsabil de proiect (1)

9. EUREKA 327E/2013 – Compusi naturali bioactivi pentru textile terapeutice

Membru in echipa de cercetare (11)

1. Proiect bilateral Romania-Turcia: Materiale avansate obtinute prin utilizarea procesarii de inalt nivel a subproduselor de piele (2008-2009)
2. Proiect bilateral Romania-Turcia: Materiale avansate obtinute prin utilizarea procesarii de inalt nivel a subproduselor de piele (2008-2009)
3. Proiect bilateral Romania – Bulgaria, nr. 453/2010: Aplicatii ale enzimelor ca alternative ecologice in industria de pielarie (2010-2011)
4. Proiect See-era. net, nr.88/01/2010:Plante traditionale indigene pentru obtinerea a noi produse cu valoare adaugata pentru diferite aplicatii (alimentare, igienico-farmaceutice, cosmetice) (2010-2012)
5. E! 307/2011 – Dezvoltarea tehnologiilor si materialelor inovative pentru prelucrarea pieilor in vederea reducerii poluarii mediului cu saruri – SALTLESS LEATHER;
6. E! 310/2011 - Produse cu continut redus de carbon pentru proiectarea tehnologiilor de prelucrare a pieilor cu tananti durabili si imbunatatirea productiei - LOWEST;
7. E! 314/2012 – Sistem de evaluare a biodegradabilitatii si ecoechitarea articolelor din blana naturala ca instrument de piata – BIOFUR;
8. E! 315/2012 – Sistem automat privind evaluarea degradarii pieilor si pergamentelor de patrimoniu – ADAS;
9. COST 1305 - Improved Protection of Medical Devices Against Infection (*IPROMEDA*) – MC substitute
10. COST CA 16119 - In vitro 3-D total cell guidance and fitness - MC member
11. Study on the Construction and Rapid Hemostatic Mechanism of Hemostatic Composites with Connected Pores Based on Natural Polymers (基于天然高分子的连通孔止血材料的构建及其快速止血机理研究) (2023 – 2024)

Lista proiectelor nationale (64)

Director / Responsabil de proiect (16)

1. NUCLEU PN 05-12 04 06 / 2005 – Obținerea gelurilor rezistente hidrotermic pentru aplicații medicale (2005)
2. NUCLEU PN 06-09 04 06 / 2006 – Stabilirea eliberării controlate *in vitro* pentru diferite medicamente din hidrogeluri de collagen (2006-2008).
3. GRANT CNCIS TD 229/2005: Biomateriale de uz medical și stomatologic pe bază de collagen fibrilar tip I (2005-2007)
4. PN II 71-147/2007: Realizarea de noi biomateriale cu structuri collagenice supramoleculare dopate, cu proprietăți piezoelectrice, de cristale lichide, electrice și magnetice, utilizate în bioinginerie (2007-2010)
5. PN II 71-029/2007: Nanocompozite bioactive pentru ambalaje alimentare ecologice (2007-2010)
6. PN II 72-198/2008: Nanobiocompozite multifuncționale utilizate ca suporturi regenerative și medicamentoase (2008-2011)
7. PN II 62-092/2008: O nouă modalitate terapeutică în repararea nervilor periferici folosind conductori artificiali biocompatibili și tehnici de inginerie tisulară (2008-2011)
8. PN II 155/2014 - Tehnologii și produse inteligente pentru tratamentul și prevenirea mamitelor la rumegătoare productive bazate pe chimia verde a compozitelor destinate sănătății publice veterinare – GREENVET
9. PN II 221/2014 - Reconstructia ligamentelor utilizând materiale structurate avansate pe baza de polimeri sintetici și naturali – LIGASINT
10. PN II 201/2014 - Designul rațional și sinteza unor suporturi inteligente bioactive pentru tratamentul personalizat al plagilor cutanate acute și cronice – ZETAskin
11. PN – III BG 26/2016: Optimizarea tehnologiei moderne de procesare a drojdiei uzate de bere și de obținere a produselor derivate (2016 – 2018)
12. PN III – 160PED/2017: Proiectare, evaluare și modelarea mecanismului de eliberare a medicamentului pentru noi sisteme multiparticulate de cedare topică – TOPMULTINOV (2017 – 2018)
13. 622PED/2022: Design-ul, modelarea și validarea unui nou biohibrid pentru aplicații de vindecare a rănilor prin inginerie tisulară – HEALSKIN (2022-2024)
14. NUCLEU PN 23 26 01 01: Dispozitive medicale de ultimă generație pentru medicina regenerativă (DMxColl) (2023 – 2026)
15. Burse Henri Coanda 188/2023: Suport tristratificat pe bază de collagen și nanotuburi de carbon funcționalizate cu medicament – un nou concept de pansament inteligent cu eliberare controlată (2023 -2024)
16. Cod SMIS 331970: Dezvoltarea de Produse Inovatoare prin Colaborare pentru Cercetare-Inovare și Transfer Tehnologic cu Parteneri Publici-Privati - INNOVERT, proiect PCIDIF/159/PCIDIF_P1/OP1/RSO1.1/PCIDIF_A1 - în contractare

Membru în echipa de cercetare (48)

1. RELANSIN 564/2000: Realizarea de produse collagenice noi și modernizate, conform normelor GMP, utilizabile în domeniul medical și dermo-cosmetic (2000-2002)
2. RELANSIN 554/2000: Tehnologii noi ecologice de producere a extractelor proteice din peste și deseuri din peste cu aplicare în industria de pielărie și în alte domenii (2000-2002)
3. VIASAN 57/2001: Noi sisteme compozite bioactive și bioresorbabile pentru protezare de țesuturi (piele și os), pe baza de membrane collagenice cu inserție textilă (2001-2003)
4. MATNANTECH 3/2001: Biomateriale noi obținute prin procedee speciale de structurare a apei în matrici collagenice (2001-2003)
5. MATNANTECT 203/2002: Tehnologii de obținere a unor noi structuri de biopolimeri naturali dopați și nedopați cu oligoelemente pentru aplicații medicale (2002-2004)
6. GRANT AT / 2001 – Aditivi acrilici pentru materiale plastice
7. RELANSIN 1642/2003: Produse bioactive obținute prin valorificarea uleiului și stromei collagenice din ficatul de rechin (2003-2005)

8. RELANSIN 1681/2003: Produse ecologice pentru finisarea suprafeței pieilor naturale și tehnologii de aplicare (2003-2005)
9. MENER 202/2002: Tehnologie de reciclare a deșeurilor proteice provenite din industria de pielărie, în aplicații industriale (2002-2004)
10. VIASAN 211/2003: Pansamente biologice continand complexi macromoleculari cu cedare gradata a substantelor bioactive utilizate in tratamentul arsurilor si leziunilor postraumatice (2003-2005)
11. VIASAN 214/2003: Substituenti de mielina pe baza de proteine structurate, utilizati in reconstructia de nervi periferici din traumatologia neurochirurgicala (2003-2005)
12. MATNANTECH 184/2003: Nanostructuri compozite pe bază de copolimeri metacrilici cu aplicații în pielărie și textile (2003-2005)
13. RELANSIN 2129/2004: Procedeu tehnologic si instalatie performanta de procesare computerizata a hidrogelurilor de colagen utilizate ca biomateriale (2004-2006)
14. RELANSIN 1901/2004: Procedeu si instalatie pentru valorificarea energetica a deseurilor de piele neutilizabile (2004-2006)
15. RELANSIN 1900/2004: Noi produse cu actiune fotoprotectoare si antioxidanta pe baza de complexi nanostructurati continand principii bioactive naturale (2004-2006)
16. MATNANTECH 205(403)/2004: Biomateriale pe baza de noi structuri de aerogeluri formate din polimeri naturali, TiO₂ si silicati, cu aplicatii dirijate (2004-2006)
17. MATNANTECH 200(402)/2004: Noi tipuri de nanocompozite hibride cu propeietati inteligente utilizate in biomedicina (2004-2006)
18. VIASAN 368/2004: Produse biologic active cu efect radioprotector pe baza de complexi fitoproteici (2004-2006)
19. VIASAN 306/2004: Cercetari pentru realizarea si utilizarea preclinica si clinica a compozitelor din sticle silicofosfatice bioactive si tropocolagen CIS, ca substituent al grefelor osoase (2004-2006)
20. BIOTECH 4652/2004: Dezvoltarea unor biotehnologii de cultivare a unor celule umane in scopul aplicarii lor in practica medicala (2004-2006)
21. BIOTECH 4608/2004: Biotehnologii pentru obtinerea de biotehnologii pentru obtinerea de noi produse dermato-cosmetice pe baza de complex peptido-proteic din resurse marine neutilizabile in circuitul alimentar (2004-2006)
22. BIOTECH 4667/2004: Obtinerea si utilizrea unor complexe enzimactice stabile cu efecte sinergice pentru prelucrarea proteinelor din piele (2004-2006)
23. BIOTECH 4695/2004: Procedeu si echipament computerizat pentru realizarea de complexi biologic activi cu efect radioprotector (2004-2006)
24. CERES 4_127/2004: Modelarea formarii complexilor surfactanti-proteina colagenica din piele in sisteme apoase diluate si concentrate (2004-2006)
25. CERES 4_251/2004: Obtinerea substantelor bioactive din insecte pentru producerea preparatelor cheratolitice utilizate in medicina si cosmetica (2004-2006)
26. CEEX – VIASAN 21/2005: Dezvoltarea activitatilor si infrastructurii de cercetare pentru terapii inovative implanto-proteice prin distractie si regenerare osoasa dirijata (2005-2007)
27. CEEX – MATNANTECH 16/2005: Tehnologii integrate pentru obtinerea de biocompozite nanostructurate cu aplicatii in medicina regenerativa a tesutului osos (2005-2007)
28. CEEX – RELANSIN 65/2005: Sistem integrat de monitorizare si raspuns mediu-sanatate SIM-E&H (2005-2007)
29. CEEX RELANSIN 23/2006: Biofunctionalizarea suprafetei implanturilor pentru osteosinteza – OSTEOSURF (2006-2008)
30. CEEX VIASAN 235/2006: Dezvoltarea de tehnici inovative in chirurgia abdominala bazate pe utilizarea unor structuri biointegrabile si dezvoltarea de noi metode de evaluare a biodegradabilitatii acestora (2006-2008)
31. CEEX RELANSIN 278/2006: Compozite pe baza de polimeri ionici utilizate ca suport biomimetic de tesut osos pentru testari in vitro – COMPOVIT (2006-2008)
32. PN II 71-146/2007: Biomateriale avansate pe baza de structuri proteice bioactive, nanostructurate dopate cu nanoparticule metalic (2007-2010)
33. Program Operational Sectorial Cresterea Competitivitatii Economice nr. 638 cod SMIS – CSNR 12579: Tehnologii inovatoare pentru sectorul de pielarie care cresc competitivitatea tehnologica prin CDI, calitatea vietii si protectia mediului (2010-2013)
34. PN II 56/2012 – Minimizarea si monitorizarea integrate a poluantilor din industria de pielarie pentru o productie sustenabila – SUSTAINLEATHER
35. PN II 167/2012 – Tehnologii de obtinere a articolelor de piele cu proprietati de autoprotectie, prin functionalizarea suprafetei cu

nanoparticule oxidice si metalice, pentru aplicatii avansate – SELFPROPIEL

36. PN II 112/2012 – Cercetari interdisciplinare privind tratarea semintelor cu hidrolizate de collagen in vederea cresterii indicatorilor calitatii, reducerea pesticidelor si dezvoltare durabila a productiei agricole – GERMOSTIM
37. PN II 213/2012 – Imbunatatirea calitatii mediului de lucru in depozitele de patrimoniu cultural. Validarea tratamentului bunurilor culturale textile si din piele cu radiatii gamma – TEXLECONS.
38. PCE 1429/2008: Folosirea de conductori bioartificiali insamantati prin tehnici de inginerie tisulara cu celule Schwann ca metoda alternativa in repararea leziunilor de nervi periferic (2008 – 2011)
39. PN 09 10 04 02 / 2009 Proiectarea, implementarea si certificarea sistemului de management al calitatii in conformitate cu cerintele ISO 9001:2008 si SR EN ISO 13485:2004 pentru dispozitive medicale (2009-2014)
40. PCCE 248/2010 – NOI CONCEPTE SI STRATEGII PENTRU DEZVOLTAREA CUNOASTERII UNOR NOI STRUCTURI BIOCOMPATIBILE IN BIOINGINERIE (2010 – 2013)
41. Nucleu PN 09 10 04 12 - Dezvoltarea si pregatirea pentru certificare a unor noi biomateriale destinate domeniului medical si cosmetic, (2014 -2015)
42. Nucleu - TEX-PEL-VISION 2022, Contract nr. 4 N /2019, Biomateriale polimerice inteligente pentru regenerarea tisulara cu aplicatii in medicinasi cosmetica (BIO-TE-COLL)
43. NUCLEU PN 16 34 02 03/2016 - pH and temperature sensitive hydrogels for burn treatment
44. NUCLEU PN 16 34 02 02/2016 - Ingestible bioproducts based on collagen hydrolysates, for gastric and oral affections
45. Nucleu PN 16 34 02 07/2016 - Dermato-cosmetic products based on collagen and plant natural extracts for acne treatment
46. NUCLEU PN 19 17 03 02/ 2019 - Biomateriale polimerice inteligente pentru regenerarea tisulara cu aplicatii in medicina si cosmetica.
47. Proiect performanta institutionala 4PFE/2022 - INCDTP in avangarda cercetarii de excelenta - ID 525
48. PN-IV-P7-7.1-PED-2024-2326 - Creme solare revoluționare: dezvoltarea, caracterizarea și validarea emulsiei cosmeceutice inovative pe baza de collagen, contract nr. 26 / 2025 (2025 – 2026)

Lista brevetelor si cererilor de brevet (32)

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1. A. Fikai, E.Andronescu, C.D.Ghitulica, D.Fikai, G.Voicu, **M. G. Albu**, Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potentiale aplicatii in tratarea cancerului osos, Brevet nr. 127725 B1 / 2015.
2. **M. G. Albu**, Membrana de collagen cu doxicilina pentru uz stomatologic si procedeu de obtinere a acesteia, Brevet nr. 128972 / 30.03.2017.
3. Z. Vuluga, D.A. Kaya, **M. G. Albu**, Compozitie si procedeu pentru acoperirea implanturilor biomedicale pe baza de aliaj de titan, Brevet nr. 131205/30.12.2016.
4. **M. G. Albu**, I. Lascar, D.G. Zamfirescu, M. Simionescu, I. Zegrea. I.D. Titorencu, M. Popescu, G. Bumbeneci, Conductorii nervosi din collagen si procedeu de obtinere a acestora, Brevet nr. 128003 B1 / 30.01.2018.
5. **M. G. Albu**, D.A. Kaya, Z. Vuluga, N. Duran, F. Ayanoglu, C. Chelaru, Compozitii de acoperire ale implanturilor cu sisteme antimicrobiene pe baza de zeolit-ulei esential-collagen hidrolizat si procedeu de obtinere a acestora, Brevet nr. 131201 B1 / 30.01.2018.
6. D.A. Kaya, **M. G. Albu**, Z. Vuluga, N. Duran, L. Albu, A. Mert, Biomateriale collagenice cu zeolit si uleiuri esentiale pentru tratarea infectiilor pielii si procedeu de obtinere a acestora, Brevet national nr. RO 128361-30.08.2018
7. A.G. Ene, C. Mihai, **M. G. Albu**, Biomaterial hemostatic si procedeu de obtinere a acestuia Brevet nr. RO 128698 / 29.06.2018
8. **M. G. Albu**, M.V. Ghica, Sisteme de cedare a medicamentelor pe baza de collagen si procedeu de obtinere a acestora, Brevet nr. RO 129431-28.09.2018.
9. A. Fikai, E. Andronescu, **M. G. Albu**, D. Fikai, M. Sonmez, Materiale compozite pentru grefe ososose osteoinductive si osteoconductive, Brevet nr. RO 129823 / 30.05.2019.
10. **M. G. Albu**, D.A. Kaya, R. Mahanoglu, L. Albu, Ghe. Coara, G. Bumbeneci, Procedeu de obtinere a microcapsulelor din collagen si microcapsulele obtinute prin acest procedeu, Brevet nr. RO 130962 / 30.08.2019.
11. M. Buzdugan, M. Radu, S. Radu, **M. G. Albu**, D.A Kaya, G. Bumbeneci, S. Marin, M. M. Marin, E. Danila, Textile functionalizate si procedeu de microincapsulare al acestora, Brevet nr RO 131884 / 30.10.2019.
12. M.C. Corobea, Z. Vuluga, D. Florea, M. Iorga, D.M. Panaitescu, **M. G. Albu**, Compozitie antibacteriana si antifungica pentru specii rezistente la actiunea antibioticilor si procedeu de obtinere a acesteia, Brevet nr RO 131367 / 30.12.2020.
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14. Danila Elena, **Albu Kaya Madalina Georgiana**, Marian Stefania, Marin Minodora Maria, Sapun exfoliant pe baza de hidrolizat de collagen si ulei esential de lavanda , si procedeu de obtinere a acestuia, A00752/27.09.2017, Brevet nr. 133125, din 29.11.2022.
15. **Albu Kaya Madalina**, Lascar Ioan, Stancu Izabela-Cristina, Titorencu Irina Dominica, Zamfirescu Dragos George, Zegrea Ion, Marin Stefania, Nitipir Cornelia, Lungu Adriana, Tutuianu Raluca, Simionescu Maya, Procedeu de obtinere de suporturi poroase tristratificate, A00753/27.09.2017, Brevet nr. 133133, din 29.11.2022
16. Marin Stefania, **Albu Kaya Madalina Georgiana**, Ghica Mihaela Violeta, Udeanu Denisa Ioana, Constantin Vlad Denis, Procedeu de obtinere a unui sistem de eliberare a medicamentelor de tip plase textile collagenice, A 00755 / 27.09.2017, Brevet nr. 133136 din 30.12.2022.
17. Marin Maria Minodora, **Albu Kaya Madalina Georgiana**, Fikai Anton, Baciuc Constantin Cosmin, Popescu Gheorghe Ion, Fikai Denisa, Procedeu de obtinere a ligamentelor din polimeri sintetici, 2022.

18. M. Marin, **M.G. Albu Kaya**, S. Marin, E. Danila, Apa de gura pe bază de hidrolizat de collagen și uleiuri esențiale și procedeu de obținere a acesteia pentru uz stomatologic, A00 290/15.05.2017, Brevet nr 132909/30.08.2023
19. M.M. Marin, **M. Albu Kaya**, S. Marin, E. Danila, G. Bumbeneci, C.I. Aldea, Ghe. Coara, F.L. Albu, Procedeu de obținere a extractelor collagenice din cartilaj bovin pentru aplicatii medicale, Cerere brevet inventie, OSIM A/00840-26.10.2018, Brevet nr. 134024/30.08.2023.
20. E. Danila, **M. Albu Kaya**, S. Marin, M.M. Marin, G. Bumbeneci, C.I. Aldea, Ghe. Coara, F.L. Albu Procedeu de obținere a hidrolizatului de collagen din piele pentru aplicatii medicale si cosmetice, Cerere brevet inventie, OSIM A/00841-26.10.2018, Brevet nr. 134025/30.08.2023.

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2. M. M. Marin, **M.G. Albu Kaya**, G. Bumbeneci, Ghe. Coara, Procedeu de obținere a collagenului hidrolizat utilizat la prepararea produselor cosmetice si in medicina ca agent activ pentru regenerarea tesuturilor, OSIM no. A 00306/02.06.2020.
3. M. M. Marin, **M.G. Albu Kaya**, G. Bumbeneci, Ghe. Coara, Crema nutritiva pentru arsuri superficiale, OSIM no. A 00262/18.05.2021.
4. M. M. Marin, **M.G. Albu Kaya**, G. Bumbeneci, Ghe. Coara, Gel cu efect calmant si reconfortant pentru activarea circulatiei locale si pentru dureri musculare si articulare de diferite etiologii, OSIM no. A 00118/11.03.2022
5. **Madalina Georgiana Albu Kaya**, Biomateriale din collagen cu azitromicina pentru uz stomatologic si procedeu de obținere a acestora, Cerere de brevet de inventie A / 00328 din 27.06.2023.
6. **Madalina Georgiana Albu Kaya**, Matrice acelulara din piele de strurion si procedeu de obținere a acesteia, Cerere de brevet de inventie A / 00329 din 27.06.2023.
7. **Madalina Georgiana Albu Kaya**, Elena Danila, Alina Coman, Minodora Maria Marin, Georgeta Bumbeneci, Geluri de collagen din piele de strurion și procedeu de obținere a acestora, Cerere de brevet de invenție A 00634/2023 din 31.10.2023
8. Bianca Mihaela NEMES, Alexandru MOMOIU, Madalina Georgiana ALBU KAYA, Pansamentul regenerativ a fost realizat din collagen, polietilenglicol si fructoza pentru tratamentul leziunilor pielii, Cerere de brevet de invenție A00312/11.06.2024.
9. ALBU KAYA Madalina Georgiana, Minodora Maria MARIN, Durmus Alpaslan KAYA, Madalina Camelia IGNAT, Agent natural de reticulare a collagenului si procedeu de obținere a acestuia, Cerere de brevet de invenție A00311/11.06.2024.
10. Narcisa Mederle, Madalina Albu Kaya, Durmus Alpaslan Kaya, Ovidiu Mederle, Morariu Sorin, Ana-Maria Marin, Oana Raluca Rabdea, Hanganu (Marza) Mihaela, Geluri antifungice pe bază de collagen, argilă și ulei esențial și procedeu de obținere a acestora, Cerere de brevet de invenție A00776/6.12.2024.

Medalii (55)**45 medalii de aur si 8 de argint, 2 bronz**

1. **Medalie de aur:** Natural cross-linking agent for collagen and process for obtaining it, A X-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 13-15 iunie 2024
2. **Medalie de aur:** Regenerative wound dressing based on collagen, polyethylene glycol and fructose with controlled porosity and its processing A X-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania 13-15 iunie 2024
3. **Medalie de aur:** Antiparasitic hydrogel based on collagen and active principles from plants and its production process, International Salon of Invention and Innovative Entrepreneurship Chisinau, Republica Moldova, 13-14 October 2023
4. **Medalie de aur:** Hidrogel antiparazitar pe baza de colagen si principii active din plante si procedeu de obtinere a acestuia, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, PRO INVENT Editia XXI, Cluj-Napoca, 25-27 octombrie 2023
5. **Medalie de aur:** Brewing yeast biomass and suspension derived from biomass and processes for their obtaining, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023.
6. **Medalie de aur:** Membranes with collagen and doxycycline for dentistry uses and method for their preparation, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
7. **Medalie de aur:** Antiparasitic hydrogel based on collagen and active principles from plants and its production process, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
8. **Medalie de aur,** Topical multiparticulate delivery systems based on biopolymers with controlled release of an anti-inflammatory drug and process for their preparation, brevet de invenție nr. RO132850B1 2021, Salon International Inventii TRAIAN VUIA, 8-10 Octombrie 2022, Timisoara, Romania
9. **Medalie de aur,** pentru Compozitii de acoperire a ligamentelor dinpolimer sintetic cu colagen tip I, si procedeu de obtinere a acestora, la Salon International Inventii, TRAIAN VUIA, 8-10 Octombrie 2022, Timisoara, Romania.
10. **Medalie de aur,** pentru Suporturi poroase stratificate, pentru tratament personalizat al rănilor dificile și procedeu de obținere a acestora la Salon International Inventii TRAIAN VUIA, 8-10 Octombrie 2022, Timisoara, Romania.
11. **Medalie de argint** pentru CBI A 00262/18.05.2021: Crema nutritiva pentru arsuri superficiale, la 14th European Exhibition of Creativity and Innovation, 26-28 mai 2022, Iasi, Romania.
12. **Medalie de argint,** pentru Membranes with collagen and doxycycline for dentistry uses and method for their preparation, The 14th Edition of EUROINVENT -European Exhibition of Creativity and Innovation, 26-28 May 2022, Iasi, Romania.
13. **Medalie de aur,** cererea de brevet A 00840/26.10.2018: Procedure for obtaining collagen extracts from bovine cartilage for medical applications, The 24th Edition of the International Exhibition of Inventions INVENTICA 2020, 29- 31 July 2020, Iasi, Romania.
14. **Medalie de aur,** cererea de brevet A 00841/26.10.2018: Procedure for obtaining collagen hydrolysate from fish skin, for medical and cosmetic applications, The 24th Edition of the International Exhibition of Inventions INVENTICA 2020, 29- 31 July 2020, Iasi, Romania.
15. **Medalie de aur,** cererea de brevet A 00840/26.10.2018: Procedure for obtaining collagen extracts from bovine cartilage for medical applications, The 6th Edition of the International Exhibition of Inventions and Inovations, „TRAIAN VUIA”, 13-15 octomber 2020, Timișoara, Romania.
16. **Medalie de aur,** cererea de brevet A 00841/26.10.2018: Procedure for obtaining collagen hydrolysate from fish skin, for medical and cosmetic applications, The 6th Edition of the International Exhibition of Inventions and Inovations, „TRAIAN VUIA”, 13-15 octomber 2020, Timișoara, Romania.

17. **Medalie de aur**, brevet nr. 127725 B1 / 2015: Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potientiale aplicatii in tratarea cancerului osos, The 4th International Invention Innovation Competition in Canada, iCAN2019, 24 august, Totonto, Canada.
18. **Medalie de aur**, cererea de brevet M. G. Albu, D.A. Kaya, R. Mahanoglu, L. Albu, Ghe. Coara, G. Bumbeneci, Microcapsules based on collagen hydrolisate and essential oils and process for preparing the same, 11th Edition of European Exhibition of Creativity and Innovation, EURO INVENT 2019, 16 – 18 May, 2019.
19. **Medalie de argint**, Pattent application: M.V. Ghica, M.G. Albu Kaya, D.I. Udeanu, M.M. Marin, S. Marin, D.A. Kaya, C.E. Dinu-Pirvu, L. Popa, E. Danila, Topical multiparticulate delivery systems based on biopolymers with controlled release of an anti-inflammatory drug and process for their preparations, 11th Edition of European Exhibition of Creativity and Innovation, EURO INVENT 2019, May 18, 2019.
20. **Medalie de aur**, brevet nr. 127725 B1 / 2015: Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potientiale aplicatii in tratarea cancerului osos, Salon International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, Editia a XVI-a, 20-22 martie 2019, Cluj Napoca, Romania.
21. **Medalie de aur cu mentiune speciala**, Cerere de brevet national, OSIM A 01045/07. 12. 2017, Materiale compozite polimer/ceramica si procedeu de obtinere a acestora, Salon International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, Editia a XVI-a, 21-23 martie 2018, Cluj Napoca, Romania.
22. **Medalie de aur**, Cerere de brevet national, OSIM nr. A00 290/15.05.2017, Apa de gura pe baza de hidrolizat de colagen si uleiuri esentiale si procedeu de obtinere al acestora pentru uz stomatologic, Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
23. **Medalie de aur**, Cerere de brevet national, OSIM nr. A00752 /27.09.2017, Sapun exfoliant pe baza de hidrolizat de colagen si ulei esential de lavanda si procedeu de obtinere a acestuia, Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
24. **Medalie de aur** pentru Brevet nr. 127725 B1 / 2015, Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potientiale aplicatii in tratarea cancerului osos, Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
25. **Medalie de bronz** pentru cererea de brevet nr. A 00239 / 20.03.2013, Grefe osoase pe baza de colagen, fosfat de calciu si zinc si procedeu de obtinere a acestora, Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
26. **Medalie de aur** pentru Cererea de brevet A00239/23. 03. 2013, Grefe osoase osteoinductive si osteoconductive si procedeu de obtinere a acestora, Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
27. **Medalie de aur**, Cerere brevet inventie, OSIM A 00755 /27.09.2017, Plase textile colagenate si impregnate cu minociclina pentru uz stomatologic si procedeu de obtinere a acestora, Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
28. **Medalie de argint**, Brevet nr. 127725 B1 / 2015, Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment, International Warsaw Invention Show IWIS 2018, 15 - 17 October 2018, Varsovia, Polonia.
29. **Medalie de bronz** pentru cererea de brevet nr. A 00240 / 20.03.2013, Grefe osoase osteoinductive si osteoconductive si procedeu de obtinere a acestora, International Warsaw Invention Show IWIS 2018, 15 - 17 October 2018, Varsovia, Polonia.
30. **Medalie de aur**, Cerere brevet inventie, OSIM A/00714-24.09.2018, Biomase de drojdii de bere si suspensii derivate din biomase si procedee de obtinere a acestora, Targul International de Inventii si Idei Practice, “Invent – Invest 2018” 9-11 November 2018, Chisinau, Republica Moldova
31. **Medalie de aur**, Cerere de brevet national, OSIM nr. A 00239 / 20.03.2013: Grefe osoase pe baza de colagen, fosfat de calciu si zinc si procedeu de obtinere a acestora, Euroinvent 2017 / International Federation of Inventors’ Associations, 25-27 mai 2017, Iasi, Romania.
32. **Medalie de aur**, Proiect Cellulose fibers functionalization in order to design the properties of the finite products, 21th International Exhibition of Inventics - Inventica; 28- 30 iunie 2017, Iasi, Romania

33. **Medalie de aur**, Cerere de brevet: Microcapsule pe baza de hidrolizat de collagen si ulei esential si procesul de preparare a acestora, Salon Internațional de Invenții INNOVA BARCELONA, 4-6 mai 2017.
34. **Medalie de aur**, Brevet nr. 128972 / 30.03.2017: Membrana de collagen cu doxicilina pentru uz stomatologic si procedeu de obtinere a acesteia, Salon Internațional de Invenții INNOVA BARCELONA, 4-6 mai 2017.
35. **Medalie de aur**, Cerere de brevet: Sisteme de cedare a medicamentelor pe baza de collagen si procedeu de obtinere a acestora, 45th, International Exhibition of Inventions Geneva, 29 martie – 2 aprilie 2017.
36. **Medalie de argint**, Cerere de brevet: Microcapsule pe baza de hidrolizat de collagen si ulei esential si procesul de preparare a acestora, International Exhibition of Inventions INNOVA, Bruxelles, Belgium 17-19 November 2016.
37. **Medalie de aur**, Cerere de brevet: Microcapsule pe baza de hidrolizat de collagen si ulei esential si procesul de preparare a acestora, International Salon of Inventions and Innovations „Traian Vuia”, Timisoara, 25-27 mai 2016.
38. **Medalie de aur**, Cerere de brevet: Compozitii de acoperire ale implanturilor cu sisteme antimicrobiene pe baza de zeolit-ulei esential-collagen hidrolizat si procedeu de obtinere a acestora, International Salon of Inventions and Innovations „Traian Vuia”, Timisoara, 25-27 mai 2016.
39. **Medalie de aur**, Cerere de brevet: Compoziție antibacteriană și antifungică pentru specii rezistente la acțiunea antibioticelor și procedeu de obținere a acesteia, International Salon of Inventions and Innovations „Traian Vuia”, Timisoara, 25-27 mai 2016.
40. **Medalie de aur**, Cerere de brevet: Textile functionalizate si procedeu de microincapsulare al acestora, International Salon of Inventions and Innovations „Traian Vuia”, Timisoara, 25-27 mai 2016.
41. **Medalie de aur**, Cerere de brevet: Metoda de obtinere a unui pansament biodegradabil pasiv pentru aplicatii dermatologice, International Salon of Inventions and Innovations „Traian Vuia”, Timisoara, 25-27 mai 2016.
42. **Medalie de aur**, Cerere de brevet: Osteoconductive bone grafts and process for their preparation, 44th, International Exhibition of Inventions Geneva, 15 April 2016.
43. **Medalie de argint**, Osteoconductive and osteoinductive bone grafts and process fot their manufacturing, Euroinvent 2016 / International Federation of Inventors' Associations, 19-20 mai 2016 , Iasi, Romania.
44. **Medalie de argint**, Compoziție antibacteriană și antifungică pentru specii rezistente la acțiunea antibioticelor și procedeu de obținere a acesteia, Euroinvent 2016 / International Federation of Inventors' Associations, 19-20 mai 2016 , Iasi, Romania.
45. **Medalie de aur**, Brevet nr. 127725 B1 / 2015: Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potentiale aplicatii in tratarea cancerului osos, Euroinvent 2016 / International Federation of Inventors' Associations, 19-20 mai 2016 , Iasi, Romania.
46. **Medalie de aur**, Cerere de brevet: Drug delivery systems base don collagen and method for their preparation, „Traian Vuia” International Exhibition of Inventions and innovations, Timisoara, 11 – 13 iunie 2015.
47. **Medalie de aur** cu felicitările juriului, Cerere de brevet: Patent application: Collagen biomaterials with zeolite and essential oils for skin infection treatment and process of obtaining thereof, 43rd International Exhibition of Inventions Geneva, 14-18 April 2015.
48. **Medalie de argint**, Patent application: Collagen biomaterials with zeolite and essential oils for skin infection treatment and process of obtaining thereof, 13th International Exhibition of Inventions ARCA 2015, Zagreb, Croatia, 15-18 October 2015.
49. **Medalie de aur**, Cerere de brevet: Collagen-based membrane with doxycycline for dentistry use and a process for preparation thereof, International Exhibition of Inventions INNOVA, Bruxelles, Belgium 19-21 November 2015.
50. **Medalie de aur**, Cerere de brevet: Collagen biomaterials with zeolite and essential oils for skin infection treatment and process of obtaining thereof, Salonul de Invenții și Inovații-INVENTIKA, 15-18 October 2014.
51. **Medalie de aur**, Cerere de brevet: Patent application: Microcapsules based on collagen hydrolisate and essential oils and process for preparing the same, INVENT-INVEST, Iasi, 12-15 November 2014.
52. **Medalie de aur**, Cerere de brevet: Collagen nerve conductors and method for their preparation, 62ndBrussels Innova,the world exhibition on inventions, research and Industrial Innovation for patent applications, 14-16 November 2013.

53. **Medalie de aur**, Cerere de brevet: Collagen antimicrobial wound dressing, 62nd Brussels Innova, the world exhibition on inventions, research and Industrial Innovation for patent applications, 14-16 November 2013.
54. **Medalie de aur**, Cerere de brevet: Simulation procedure of tanning systems, 61st Brussels Innova, the world exhibition on inventions, research and Industrial Innovation for patent applications, 13-15 November 2012.
55. **Medalie de aur**, Cerere de brevet: Process of obtaining some composite materials with potential applications in treatment of bone cancer, 61st Brussels Innova, the world exhibition on inventions, Research and Industrial Innovation for patent applications, 13-15 November 2012.

Premii (52)

1. **Certificat de excelență:** Regenerative wound dressing based on collagen, polyethylene glycol and fructose with controlled porosity and its processing, A X-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 13-15 iunie 2024 / Research & Development Center Healthy vibe Holistic Treatment
2. Premiu special din partea Universitatii Politehnica Timisoara: Antiparasitic hydrogel based on collagen and active principles from plants and its production process, International Salon of Invention and Innovative Entrepreneurship Chisinau, Republica Moldova, 13-14 October 2023
3. Diploma de excelență: Hidrogel antiparazitar pe baza de colagen si principii active din plante si procedeu de obtinere a acestuia, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, PRO INVENT Editia XXI, Cluj-Napoca, 25-27 octombrie 2023
4. Premiu special din partea Universitatea "Constantin Brâncuși", Târgu Jiu, Hidrogel antiparazitar pe baza de colagen si principii active din plante si procedeu de obtinere a acestuia, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, PRO INVENT Editia XXI, Cluj-Napoca, 25-27 octombrie 2023
5. Premiul aniversar "Traian Dragoș", Hidrogel antiparazitar pe baza de colagen si principii active din plante si procedeu de obtinere a acestuia, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, PRO INVENT Editia XXI, Cluj-Napoca, 25-27 octombrie 2023
6. Diplomă de excelență, Secțiunea Tehnologie Farmaceutică – perspective în optimizarea formelor farmaceutice, pentru lucrarea "Evaluarea compatibilității matricilor de colagen și metilceluloză proiectate pentru aplicații biomedicale", lucrare poster (ID 925), E.E. Tudoroiu, M.V. Ghica, Mădălina Georgiana Albu Kaya, C.E. Dinu-Pîrvu, L. Popa, V. Anuța, Maria Minodora Marin, A. Antoniac, C. Chelaru, R.M. Prisada, Congresul Național de Farmacie din România (CNFR), ediția a XIX-a, 27-29 septembrie 2023 / Colegiul Farmacistilor din Romania.
7. Grand Prize of International Exhibition Traian Vuia 2023: Membranes with collagen and doxycycline for dentistry uses and method for their preparation, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
8. Diploma de excelență din partea OSIM: Membranes with collagen and doxycycline for dentistry uses and method for their preparation, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
9. Diploma de excelență din partea UMF „Victor Babes” Timisoara: Membranes with collagen and doxycycline for dentistry uses and method for their preparation, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
10. Diploma de excelență din partea INOE: Membranes with collagen and doxycycline for dentistry uses and method for their preparation, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
11. Diploma de excelență din partea INOE: Antiparasitic hydrogel based on collagen and active principles from plants and its production process, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
12. Premiu special din partea Universitatii Lucian Blaga Sibiu: Antiparasitic hydrogel based on collagen and active principles from plants and its production process, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
13. Diploma de excelență: Brewing yeast biomass and suspension derived from biomass and processes for their obtaining, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023
14. Diploma din partea Primosal Group: Brewing yeast biomass and suspension derived from biomass and processes for their obtaining, A IX-a ediție a Salonului Internațional de Invenții și Inovații "TRAIAN VUIA", Timisoara, Romania, 15-17 iunie 2023

15. Premiul I și medalie de Aur, pentru lucrarea "Pansament inteligent – un nou concept", Concursul National de Stiinta și Tehnologie – ROSEF 2022, Suceava, 24-25 octombrie 2022, Autor: Nemes Bianca Mihaela (elev liceu), Indrumatori: Madalina Albu Kaya și Mircea Ignat
16. Premiul Societatii Romane de Reologie, pentru lucrarea: "Analysis of in vitro release profiles and rheological parameters for some naproxen-based topical semi-solid systems", Societatea Romana de Reologie, International Conference on Rheology: Understanding the Viscoelastic Behavior of Materials – Progress and Challenges, Iasi, Romania, Mai 2022, E.E. Tudoroiu, M.V. Ghica, C.E. Dinu-Pirvu, L. Popa, Madalina Georgiana Albu Kaya, V. Anuța, R.M. Prisada, B.S. Velescu, A.R. Orșan
17. Premiu special, pentru Suporturi poroase stratificate, pentru tratament personalizat al rănilor dificile și procedeu de obținere a acestora, la Salon International Inventii TRAIAN VUIA, 8-10 Octombrie 2022, Timisoara, Romania.
18. Medalie Excelenta in Inovare din partea Romanian Inventors Forum pentru Membranes with collagen and doxycycline for dentistry uses and method for their preparation., The 14th Edition of EUROINVENT -European Exhibition of Creativity and Innovation, 26-28 May 2022, Iasi, Romania.
19. Premiu special oferit de Association of Thai Innovation and Invention Promotion Thailand pentru, brevet nr. 127725 B1 / 2015: Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potentiale aplicatii in tratarea cancerului osos, The 4th International Invention Innovation Competition in Canada, iCAN2019, 24 august, Totonto, Canada.
20. Diploma of Excellence, Patten application: M.V. Ghica, M.G. Albu Kaya, D.I. Udeanu, M.M. Marin, S. Marin, D.A. Kaya, C.E. Dinu-Pirvu, L. Popa, E. Danila, Topical multiparticulate delivery systems based on biopolymers with controlled release of an anti-inflammatory drug and process for their preparations, XXII th International Exhibition of Inventics Inventica 2019, Iasi, 26 – 28 June 2019.
21. Award of excellence from University of Medicine and Pharmacy "Carol Davila" Bucharest for M. G. Albu, D.A. Kaya, R. Mahanoglu, L. Albu, Ghe. Coara, G. Bumbeneci, Microcapsules based on collagen hydrolisate and essential oils and process for preparing the same, 11th Edition of European Exhibition of Creativity and Innovation, EURO INVENT 2019, 16 – 18 May, 2019.
22. Diploma of Excellence, Patten application: M.V. Ghica, M.G. Albu Kaya, D.I. Udeanu, M.M. Marin, S. Marin, D.A. Kaya, C.E. Dinu-Pirvu, L. Popa, E. Danila, Topical multiparticulate delivery systems based on biopolymers with controlled release of an anti-inflammatory drug and process for their preparations, 11th Edition of European Exhibition of Creativity and Innovation, EURO INVENT 2019, 16 – 18 May, 2019.
23. Diploma de excelenta, brevet nr. 127725 B1 / 2015: Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potentiale aplicatii in tratarea cancerului osos, Salon International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, Editia a XVI-a, 20-22 martie 2019, Cluj Napoca, Romania.
24. Diploma de excelenta din partea Universitatii de Stiinte Agronomice si Medicina Veterinara, brevet nr. 127725 B1 / 2015: Procedeu de obtinere a unor materiale compozite, multifunctionale, cu potentiale aplicatii in tratarea cancerului osos, Salon International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, Editia a XVI-a, 20-22 martie 2019, Cluj Napoca, Romania.
25. Excellence Diploma - din partea Romana Petroleum – Gas University of Ploiesti - In recognition of the originality and creativity of the inventions and ideas pentru Cerere brevet inventie, OSIM A/00714-24.09.2018, Biomase de drojdii de bere si suspensii derivate din biomase si procedee de obtinere a acestora, Targul International de Inventii si Idei Practice, "Invent – Invest 2018" 9-11 November 2018, Chisinau, Republica Moldova
26. Diploma de Excelenta – din partea INMA Bucureti - Biomase de drojdii de bere si suspensii derivate din biomase si procedee de obtinere a acestora, pentru Cerere brevet inventie, OSIM A/00714-24.09.2018, Biomase de drojdii de bere si suspensii derivate din biomase si procedee de obtinere a acestora, Targul International de Inventii si Idei Practice, "Invent – Invest 2018" 9-11 November 2018, Chisinau, Republica Moldova
27. Premiu special oferit de State University of Medicine and Pharmacy "Nicolae Testemițanu", Moldova (for the patent application "Bone grafts based on collagen, calcium phosphate and zinc and process for their manufacturing", Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
28. Premiu special oferit de State University of Medicine and Pharmacy "Nicolae Testemițanu", Moldova (for the invention "Osteoconductive and osteoinductive bone grafts and process for their manufacturing". Salonul International de Inventii si Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.

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30. Premiu special oferit de Universitatea de Medicină și Farmacie "Victor Babeș" din Timișoara (for the patent "Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment", Salonul Internațional de Inventii și Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
31. Premiu Special din partea Universitatii de Stat de Medicina si Farmacie "Nicolae Testemitanu" din Republica Moldova pentru Cerere de brevet national, OSIM nr. A00 290/15.05.2017, Apa de gura pe baza de hidrolizat de collagen si uleiuri esentiale si procedeu de obtinere al acestora pentru uz stomatologic, Salonul Internațional de Inventii și Inovatii „TRAIAN VUIA” Timisoara, editia a IV-a, 13-15 iunie 2018.
32. Diploma de excelente din partea Asociatiei Justin Capra pentru Cerere de brevet national, OSIM A 01045/07. 12. 2017; Materiale compozite polimer/ceramica si procedeu de obtinere a acestora, Salon Internațional al Cercetarii Stiintifice, Inovarii și Inventicii PRO INVENT, Editia a XVI-a, 21-23 martie 2018, Cluj Napoca, Romania.
33. Diploma de excelenta si Medalie de aur din partea Universitatii de Stat de Medicina si Farmacie "Nicolae Testemitanu" din Republica Moldova pentru Cerere de brevet national, OSIM A 01045/07. 12. 2017; Materiale compozite polimer/ceramica si procedeu de obtinere a acestora, Salon Internațional al Cercetarii Stiintifice, Inovarii și Inventicii PRO INVENT, Editia a XVI-a, 21-23 martie 2018, Cluj Napoca, Romania.
34. Diploma de onoare oferita de Institutul de Chimie al A.S.M pentru Cerere de brevet national, OSIM nr. A 00239 / 20.03.2013: Grefe osoase pe baza de collagen, fosfat de calciu si zinc si procedeu de obtinere a acestora, Euroinvent 2017 / International Federation of Inventors' Associations, 25-27 mai 2017, Iasi, Romania.
35. Premiu special oferit de „Lucian Blaga” University of Sibiu, Romania pentru Cerere de brevet national, OSIM nr. A 00239 / 20.03.2013: Grefe osoase pe baza de collagen, fosfat de calciu si zinc si procedeu de obtinere a acestora, Euroinvent 2017 / International Federation of Inventors' Associations, 25-27 mai 2017, Iasi, Romania.
36. Premiul III: Mesenchymal stem cells released factors sustain the population of collagen–alginate scaffolds with human skin cells for dermal reconstruction, Al 9-lea Congres National de Biologie Celulară și Moleculară cu participare internationala si a 35-a Sesiune Stiintifica anuala a Societatii Romane de Biologie Celulara, 7 - 11 iunie 2017, Iasi, Romania
37. Premiu special oferit de Haller Pro Inventio Foundation pentru cerere de brevet: Microcapsule pe baza de hidrolizat de collagen si ulei esential si procesul de preparare a acestora, Salon Internațional de Inventii INNOVA BARCELONA, 4-6 mai 2017.
38. Prix de l'AGEPI (Agence d'État pour la Propriété Intellectuelle) pentru cererea de brevet, Sisteme de cedare a medicamentelor pe baza de collagen si procedeu de obtinere a acestora, 45th, International Exhibition of Inventions Geneva, 29 martie – 2 aprilie 2017.
39. Special award from Turkish Patent Institute for Patent application: Osteoconductive bone grafts and process for their preparation, 44th, International Exhibition of Inventions Geneva, 15 April 2016.
40. Honorable mention from China Delegation of Invention and innovation for Patent application: Osteoconductive bone grafts and process for their preparation, 44th, International Exhibition of Inventions Geneva, 15 April 2016.
41. Best Innovation Award from Hong Kong Science and Technology Parks Corporation for Patent application: Osteoconductive bone grafts and process for their preparation, 44th, International Exhibition of Inventions Geneva, 15 April 2016.
42. Premiu special oferit de UMF "Victor Babes" Timisoara pentru cererea de brevet: Compozitii de acoperire ale implanturilor cu sisteme antimicrobiene pe baza de zeolit-ulei esential-collagen hidrolizat si procedeu de obtinere a acestora, International Salon of Inventions and Innovations „Traian Vuia", Timisoara, 25-27 mai 2016.
43. Special award from Contest Brussels Eureka for Patent application: Collagen-based membrane with doxycycline for dentistry use and a process for preparation thereof, International Exhibition of Inventions INNOVA, Bruxelles, Belgium 19-21 Noiembrie 2015.
44. Special award from Timișoara County Emergency Clinical Hospital for Patent application: Drug delivery systems based on collagen and method for their preparation, „Traian Vuia" International Exhibition of Inventions and innovations, Timisoara, 11 – 13 iunie 2015.

45. Special award from "Victor Babes" University of Medicine and Pharmacy Timisoara for Patent application: Drug delivery systems based on collagen and method for their preparation, "Traian Vuia" International Exhibition of Inventions and innovations, Timisoara, 11 – 13 iunie 2015.
46. Special award from Association „Russian House of International Scientific and Technological Cooperation” for Patent application: Collagen biomaterials with zeolite and essential oils for skin infection treatment and process of obtaining thereof, 43rd International Exhibition of Inventions Geneva, 14-18 April 2015.
47. Special award from Turkish Patent Institute for Patent application: Collagen biomaterials with zeolite and essential oils for skin infection treatment and process of obtaining thereof, 43rd International Exhibition of Inventions Geneva, 14-18 April 2015.
48. First Prize of Romanian Innovation 2014 given by SC 3M Romania SRL - 2000 EURO for National Patent Application "Collagen nerve conductors and method for their preparation".
49. Prix de l'AGEPI (Agence d'État pour la Propriété Intellectuelle) pour ses mérites distingués à la 62^{ème} édition du Salon International des Inventions « Brussels INNOVA – 2013 » accordé M.G. Albu, I. Lascar, G.D. Zamfirescu, M. Simionescu et al, ROUMANIE pour l'invention : « Conducteurs nerveux de collagène et leur processus d'obtention », Bruxelles, 2013.
50. Innovation Award from ORIGITEA®, Institute of Health and Beauty by Doctor Mukhina for Patent application „Antimicrobial collagen wound dressing", Bruxelles, 2013.
51. Award given by INCDIE ICPE CA for Original Contribution of the Young Researcher Albu Mădălina Georgiana presented at ECOMAT 2008 – International Conference on Ecological Materials and Technologies.
52. The article "New Biocomposite Matrices Structures Based on Collagen and Synthetic Polymers Designed for Medical Applications" published in Materiale Plastice Journal, 2007, 44(4), 273-277, Authors: Lungu, A, Albu, M, Trandafir, V was awarded as the best article of the year published in Materiale Plastice Journal for Conference of Contemporary Chemistry – 2008.