

INFORMAȚII PERSONALE

Marieta Costache

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Data nașterii 15/07/1961 | Naționalitatea română

EXPERIENȚA PROFESIONALĂ

2007–Prezent

Conducător de Doctorat

Universitatea din București, București (România)

2004–Prezent

Profesor universitar

Universitatea din București, Facultatea de Biologie, București (România)

- Curs de Tehnici de varf/avansate in Biologie Moleculara, master Biochimie si Biologie Moleculara an IV (1995–2007);
- Curs Acizi Nucleici, ciclul licenta anii II si III Biochimie (1998-2008);
- Curs de Patologie Moleculara, ciclul master anii IV si V Master Biochimie și Biologie Moleculară (2000-prezent)
- Curs Biologie Moleculara pentru ciclul licenta, anul II Biochimie (2002-prezent)

1998–2004

Conferențiar universitar

Universitatea din București, Facultatea de Biologie, București (România)

- Curs de Vitamine și Elemente Minerale (1990-2000);
- Curs de Analize Biochimice Speciale și Biochimie Patologică (1994-1999);
- Curs de Tehnici de varf/avansate in Biologie Moleculara, master Biochimie si Biologie Moleculara an IV (1995–2007);
- Curs Acizi Nucleici, ciclul licenta anii II si III Biochimie (1998-2008);
- Curs de Patologie Moleculara, ciclul master anii IV si V Master Biochimie și Biologie Moleculară (2000-prezent)
- Curs Biologie Moleculara pentru ciclul licenta, anul II Biochimie (2002-prezent):
- Lucrări practice si seminarii de Biochimie generala, Vitamine si Elemente minerale, Analize Biochimice Speciale, Metabolism, Enzimologie, Biochimie si Patologie, Tehnici de Vârf in Biologie Moleculară.

1994–1998

Lector universitar

Universitatea din București, Facultatea de Biologie, București (România)

- Curs de Vitamine și Elemente Minerale (1990-2000);
- Curs de Analize Biochimice Speciale și Biochimie Patologică (1994-1999);
- Curs de Tehnici de varf/avansate in Biologie Moleculara master Biochimie si Biologie Moleculara an IV (1995–2007);

Lucrări practice si seminarii de Biochimie generala, Vitamine si Elemente minerale, Analize Biochimice Speciale, Metabolism, Enzimologie, Biochimie si Patologie, Tehnici de Vârf in Biologie Moleculară.

01/10/1990–1994

Asistent universitar

Universitatea din București, Facultatea de Biologie, București (România)

- Curs de Vitamine și Elemente Minerale (1990-2000)

- Lucrări practice și seminarii de Biochimie generală, Vitamine și Elemente minerale, Analize Biochimice Speciale, Metabolism, Enzimologie, Biochimie și Patologie, Tehnici de Vârf în Biologie Moleculară.

- 1990-Prezent **Cercetător**
Universitatea din București, Facultatea de Biologie, București (România)
- 1989-1990 **Cercetător**
Institutul de Biochimie, Academia Romană, București (România)
- 1985–1990 **Post obținut prin repartiție Guvernamentală**
Institutul de Cercetări Sanitar Veterinare Pasteur, în laboratorul de Metabolism și Patologia Nutriției, Fabrica de Drojdie Frajeră ICPCB Brăila

EDUCAȚIE ȘI FORMARE

- 2000 **Stagiu Post-doctoral**
Echipa: "Fiziologie moleculară normală și patologică"; Institutul de Biotehnologie, Facultatea de Științe, UMR CNRS 118, Limoges (Franța)
- coordonator Prof. Marie-Helene Ratinaud
- 1994–1997 **Stagiu doctoral în Specializarea "Biologia Moleculară a Celulei"**
Universitatea Paris-Sud, Unitatea de Cercetare asupra Diferențierii Celulare Intestinale-INSERM 178, echipa "Biologia Moleculară a Fucoziltransferazelor Villejuif-Paris, Paris (Franța)
- DR1 Dr. Rafael Oriol, Profesor Dr. Michel Jacquet
- 1997–Doctor în Biologie**, Specializarea Biochimie, Universitatea din București, lucrare cu titlul „Funcția și controlul genetic al α-L-fucozil transferazelor și oligozaharidelor tisulare la vertebrate”, coordonator **Prof. Dr. Dana Iordachescu**, *Diploma seria P nr.179 / 8.12.1997*
- 1997-Doctor în Științe**, specializarea "Biologie Moleculaire de la Cellule", Universitatea Paris-XI, Franța; lucrare cu titlul „Fonction et contrôle génétique de l'expression des α-L-fucoyltransférases et des oligosaccharides tissulaires chez les vertébrés”; *Diploma seria PARXI nr. 1749019 / 24.07.2000.*
- 1993–1994 **Stagiu pre-doctoral**
Laboratorul de „Genetică și Biologie Moleculară” Universitatea Paris-Sud, Paris (Franța)
- obținere de recunoaștere și echivalență de studii
- 1984–1985 **Specializare în Biochimie (Certificat seria C Nr.252/4.01.1995)**
Universitatea din București, Facultatea de Biologie, București (România)
- 1980-1984 **Diplomă de Licență, programul de studii Biochimie (seria C nr.400/3.08.1984)**
Universitatea din București, Facultatea de Biologie, București (România)

COMPETENȚE PERSONALE

Limba(i) maternă(e) română

Limbile străine

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Franceză	C2	C2	C2	C2	C2

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C1	C1	C1	C1	C1

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

Competențe dobândite la locul de muncă

Expertiză în:

- Tehnici de analiză a acizilor nucleici (Electroforeza în agaroză și poliacrilamidă, Southern blot, marcarea ADN, secvențializare ADN, analiza fragmente (Gene Scan);
- Clonare moleculară- în plasmide, fagi, cosmide, vectori navetă, YAC; „criblare de bănci ADNtotal și ADNc”, „criblare” diferențială sau substractivă.
- Transferul ADN în celule procariote/eucariote (transformare și transfecție) cu fosfat de calciu, DEAE dextran, microinjecție, lipozomi, fuziune de protoplaști, electroporare, infectare cu virusuri recombinante etc;
- Analiza mutațiilor ADN: tehnicile ASO și RFLP/Southern blot, DGGE, SSCP, HOAS, AOAS, secvențierea directă a produsilor PCR;
- Tehnici specifice de analiză a ARN: Northern blot, RT-PCR, Real-Time PCR, microarray, transcripția și translația ARN in vitro, DDRT-PCR., Secvențiere de noua generație.
- Elucidarea funcției biologice a proteinelor: proteine recombinante; purificare FPLC; electroforeza nativă/denaturantă, imunodetecție prin ELISA, Western blot și imunocitochimie.
- Biologie celulară: evaluare compuşilor biologici activi pe linii COS, HeLa, Sp2/0, CaCo2, HL60, HaCat; culturi primare de mioblast, fibroblast, keratinocite; sincronizare celulară, transfecții, imunofluorescență, citometrie de flux;

Competențele digitale

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator independent	Utilizator independent

Competențele digitale - Grilă de auto-evaluare

Metode bioinformatică și biostatistică: Office 2000 (Word, Excel, Power Point), Corel Draw 9 și 10, Software de filogenie moleculară, etc.

Permis de conducere

categoria B

INFORMAȚII SUPLIMENTARE

Publicații

Contracte de cercetare: 13 internaționale (5 coordonator/responsabil, 8 colaborator), interne de tip CNCSIS (5 director, 7 colaborator) ANSTI 2 director; 23 PNCDI (3 director, 7 responsabil UB BCUM-BM, 13 colaborator) 22 CEEX (2 director, 5 responsabil UB BCUM-BM, 15 colaborator), 8 PN2 (4 responsabil UB BCUM-BM, 4 colaborator) 1 consorțiu CNCSIS-responsabil UB-BCUM-BM, PCCE 248/2010-2013. Contracte finanțate PN, ex selecție: PNII PCCA AQUASTUR nr.116/2012 -2015, PN-II-PT-PCCA-2011-3.1-1538 POLYGRAPH (2012-2015), PNII 130/2014 ORALSIS (2014-2017), PN-III-P1-1.2 65PCCDI REGMED (2018-2020) "Abordări inovative avansate pentru medicina regenerativă predictivă!"; 61PCCDI/2018- "Platforma multidisciplinară pentru creșterea capacității instituționale regionale în domeniul dermatologiei și dermatopatologiei (PATHDERM)"; 39PCCDI/2018- "Materiale inteligente pentru aplicații medicale (INTELMAT)"; 8PCCDI/2018- "De la nutriția clasică la nutriția de precizie în domeniul creșterii animalelor, baza științifică pentru asigurarea securității nutriționale a populației (IBNA PLUS)"

Proiecte

5 proiecte finanțate de FSE:

- › FSE POSDRU AI 1.5, CN 89, No 58852 "Program Postdoctoral pentru formarea de cercetatori în științe", Director Executiv, 2010-2013
- › FSE POSDRU AI 1.5, CN 88, No 61150, "Studii doctorale în domeniul științelor vieții și pământului", Responsabil științific, 2010-2013
- › FSE POSDRU AI 3.2, CN 81, No 55362 "Program de specializare pentru formarea resurselor umane din domeniul biomedical și biotehnologic" Director de Proiect, 2010-2013
- › **FSE POSCCE Cod SMSI 915/14043 "Platforma de cercetare în Biologie și Ecologie Sistemica, Director Executiv, 2010-2014**
- › FSE POSDRU 159/1.5/S/ 133391 "Programe doctorale și post-doctorale de excelență pentru formarea de resurse umane înalt calificate pentru cercetare în domeniile Științele Vieții, Mediului și Pământului", Coodonator Consorțiu Universitatea din București, Director de Proiect 2014- 2015

Conferințe invitate

Afilieri

Peste 25 stagii de Profesor invitat/Conferințe invitate în țară și străinătate

- › Membru în societăți științifice naționale: Societatea Română de Biochimie și Biologie Moleculară din 1990, vicepreședinte 2006-2009; Societatea Română Anatomie Patologică din 2003, Membru Societatea Română de Biologie celulară și Moleculară din 2002, Societatea Română de Bioinginerie și Biotehnologie din 2003
- › Membru în comisii de doctorat naționale și internaționale: Universitatea din Limoges (Franța), Institutul de Biologie și Patologie Celulară «Nicolae Simionescu», Institutul de Virusologie «St.S.Nicolau», București și Institutul de Biochimie ale Academiei Române, Universitatea Politehnică București, Institutul Agronomic București, Universitatea Al. I. Cuza din Iași (Facultatea de Biologie), Universitatea de Medicină și Farmacie «Carol Davila» din București, etc
- › Membru în comisii naționale și internaționale:
 - Membru al Comisiei de Evaluare a Oficiului Național al Burselor de Studii în Străinătate 2000-2010
 - Membru al „Technical Committee of Health and Medicine European Commission” pentru Programe COST din 2002 - Evaluator științific TCMH,
 - Reprezentant România în „Domain Committee Biomedicine and Molecular Biosciences, Evaluator și Raportor programe COST DC BMBS, 2004-2014
 - Membru al comisiei 4 CNCSIS, „Științele Vieții și ale Pământului” 2004- 2010
 - Evaluator Horizon2020 2014 - prezent
- Membru, secretar și președinte Comisia permanentă I Științe Exacte și Științe ale Naturii ARACIS (2012-prezent), Expert Evaluator ARACIS (2008-prezent)

Referințe Citări Indicele H SCOPUS - 28/Google Academic -35; i10 index=60; 3665 Citări Google Academic
Indicele H Web of Science =27, 2208 citări, 147 publicații indexate ISI; ResearcherID: F-2806-2016

ORCID ID: 0000-0002-8103-3693

- Cursuri de formare **INFOBIOGEN** Paris pentru operarea cu baze de date de biologie și genetică moleculară „Genome Data Base” (1995-1996)
- › **Seminarii CNCSIS:**
- 1) „Introducere în managementul de proiect”, martie, 2001;
- 2) „Financial, administrative and management matters in FP5 RTD projects” București, România iulie 2001;
- 3) „Managementul de Proiect-Seminar pentru Bazele cu Utilizatori Multipli”, București, iulie, 2001;
- 4) „Introducere în Marketing și Relații Publice”, Brașov; octombrie, 2001;
- 5) „How to apply with success in international research Program-FP6”, UEFISCU /Hyperion Ltd, Irlanda, iunie 2001;
- 6) „How to apply with success in international research Program-FP6”, UEFISCU/Hyperion Ltd, Irlanda, iulie 2002
- › Cursuri de formare „**Technology Transfer**” organizate de BRITISH COUNCIL, in perioada octombrie –mai 2004
- › **Cursuri RENAR:**
- 1) „Cerinte ale SR EN ISO 19011: 2003 – Ghid pentru auditarea sistemelor de management al calitatii si/sau al mediului. Tehnici de audit. M2 – Formare de auditori interni pentru Laboratoarele de incercari/etalonari.” oct 2006;
- 2) „Prezentarea cerintelor Iso/Cei 17025:2005-Referential pentru acreditarea laboratoarelor de incercari/etalonari”, oct 2006;
- 3) „Evaluarea incertitudinii de masurare, proiectarea bugetelor de incertitudine”, nov 2006;
- 4) „Scheme comparari interlaboratoare”, nov 2006;
- 5) „Cum sa devii laborator/organism acreditat? Documentatia aferenta”, nov 2006;
- › Cursuri management:
- 1) «Expert Accesare Fonduri Structurale si de Coeziune Europene», SC Intratest SRL, Bucuresti, Diploma nr.389/18.05.2009
- 2) Curs postuniversitar de perfectionare „Proiectarea si Managementul Proiectelor Europene” certificat Nr. 44 / 07.01.2010 acordat de Camera de Comert si Industrie a Municipiului Bucuresti si Universitatea Politehnica Bucuresti
1. Patent Number(s): WO2013124700-A2 ; HU201300110-A1 ; WO2013124700-A3 ; EP2674029-A2, Pharmaceutical composition useful for preventing and treating liver disease, comprises oil isolated from Silybum marianum seed, Patent Assignee Name(s) and Code(s): UNIV DEBRECEN (UYDE-Non-standard), partener
2. Patent Number(s): RO128714-A2, PROCESS FOR ACTIVATING CELL PROLIFERATION WITH EFFECT ON REGENERATION OF BURNT AND WOUNDED TISSUE AND MATRIX METALLOPROTEINASE, BY STIMULATING CELL ADHESION AND DIFFERENTIATION UNDER THE ACTION OF LEVAN PRODUCED BY ZYMOMONAS MOBILI BACTERIA, Derwent Primary Accession Number: 2013-N12578 [77]
3. Patent Number(s): RO128708-A2 COMPOSITION AND PROCESS FOR PREPARING HYDROGELS FOR REGENERATION OF ADIPOSE TISSUE Derwent Primary Accession Number: 2013-N36031, Patent Assignee Name(s) and Code(s): UNIV DIN BUCURESTI (UYBU-Non-standard), partener
- 1999/2002 coordonare proiect B12 BCUM-BM -Banca Mondiala / BERD:
- Director Baza de Cercetare cu Utilizatori Multipli-Biologie Moleculara (BCUM-BM) Certificat nr. 86/ 11.05.2001, MEC, CNCSIS (2001-2008)
- Evaluator proiecte PNCDI, CEEX, CNCSIS, FLARE, Horizon2020 (2014, 2015, 2016).
- Conducător de doctorat Biochimie-Biologie Moleculara la Universitatea din București (din 2007)
- Director Departament de Biochimie si Biologie Moleculara, Universitatea din Bucuresti (2008-2016)
- Prodecan Facultatea de Biologie, Universitatea din Bucuresti (din 2016)
- membru al Senatului Universitatii din Bucuresti (din 2008)
- Presedintele Consiliului stiintific al Senatului Universitatii din Bucuresti (2012-2016)
- Vice-Presedintele Consiliului Stiintific al Senatului Universitatii din Bucuresti (din 2016)

ANEXĂ

I. Lista publicațiilor

II. Proiecte de cercetare (din ultimii cinci ani)

III. Participări la manifestări științifice internaționale (din ultimii cinci ani)

I. Lista de publicații

A. Carti, monografii, capitole in volume colective

1. Costache M., Dinischiotu A., 1998, *Hydrosoluble Vitamins*, ProTransilvania, Bucharest ed., ISBN 973-98548-3-4
2. Dinischiotu A., Costache M., 1998 *Carbohydrates Biochemistry*, ProTransilvania, Bucharest ed., ISBN, 973-98548-2-6, 116 p
3. Dinischiotu A., Costache M., 2004, *General Biochemistry, tome I, Proteins, Carbohydrates and Lipids*, Ars Docendi ed., ISBN 973-558-134-5; 973-558-133-7, 200 p
4. Costache M., Dinischiotu A., 2004, *General Biochemistry, tome II, Nucleic acids: Structure and organisation*, Ars Docendi ed., ISBN 973-558-134-5; 973-558-135-3, 200 p
5. Ionica E., Costache M., 2004, *General Biochemistry, tome III, Vitamins and Mineral elements*, Ars Docendi ed., ISBN 973-558-134-5; 973-558-136-1, 300 p
6. Costache M., Dinschiotu A., 2004, *Methods in Biochemistry analysis, tome I, Electrophoresis*, Ars Docendi ed., ISBN 973-558-137-X, 250p
7. Costache M., 2005, *Cell Biology* (The cell – the basis unit of the living world), post-university course in ID system financed by World Banque Programme for Rural Education, UMPIR, <http://rural.edu.ro>, ISBN 973-0-04103-2
8. Zăuleț M., Georgescu S., Costache M., 2008, *Implementation of Quality System for microsatellites molecular markers analysis in cattle and horses*, Ars Docendi ed., ISBN 978-973-558-354-5.
9. Ungureanu F., Predoi D., Ghita R.V., Vatașescu-Balcan R.A., Costache M., 2009, *Characteristics of Vacuum Deposited Sucrose Thin Films*, In *Interface Controlled Thin Films*, pp 67-71, Part of the Springer Proceedings in Physics Book series (SPPHY, vol 129)
10. Georgescu S.E., Costache M., 2010, *Laboratory practical works in nucleic acid biochemistry and molecular biology*, Ed University of Bucharest.
11. Georgescu S.E., Dudu A., Suci R., Vîrban I., Ionescu O., Costache M., 2011, *Genetic evaluation and characterisation of Romanian Salmonids*, Ed University of Bucharest, ISBN 978-606-16-0036-6.
12. Georgescu S.E., Costache M., 2012, *Genetic Characterization of Romanian Local Breeds Using Microsatellite Markers*, In *Analysis of Genetic Variation in Animals*, ISBN 978-953-51-0093-5, Edited by: Mahmut Caliskan, Publisher: InTech
13. Costache M., Dudu A., Georgescu S.E., 2012, *Low Danube Sturgeon Identification Using DNA Markers*, In *Analysis of Genetic Variation in Animals*, ISBN 978-953-51-0093-5, Edited by: Mahmut Caliskan, Publisher: InTech
14. Costache M., Simionescu M., editori, 2013, *Advanced biocompatible structures for prospective bioengineering: Concepts and strategies*, Editura Academiei Romane, ISSN: 978-973-27-2317-3.
15. Gălățeanu B., Dinescu S., Costache M., 2013, *Tissue engineering strategies for adipose tissue reconstruction*, In *Advanced biocompatible structures for prospective bioengineering: Concepts and strategies*, Editura Academiei Romane, ISSN: 978-973-27-2317-3
16. Dinescu S., Gălățeanu B., Costache M., 2013, *Current notes on chondrogenesis for cartilage tissue engineering applications*, In *Advanced biocompatible structures for prospective bioengineering: Concepts and strategies*, Editura Academiei Romane, ISSN: 978-973-27-2317-3
17. Dudu A., Georgescu S.E., Costache M., 2015, *Evaluation of genetic diversity in fish using molecular markers* In *Genetic Diversity*, Publisher InTech, doi: 10.5772/60423

18. Hermenean A., Dinescu S., Ionita M., **Costache M.**, 2016, *The impact of graphene oxide on bone regeneration therapies*, In *Bone Regeneration*, Publisher InTech, ISBN 978-953-51-4686-5.
19. SE Georgescu, A. Dudu, M. **Costache**, Tehnici de Biologie moleculară-principii și aplicații practice, Editura Universității București, 2016, SBN: 978-606-16-0729-7
20. **Costache M.**, Cristea V., coordonatori, 2017, *Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare*, Editura Universității din București, București, România, ISBN 978-606-16-0857-7.
21. Dudu A., **Costache M.**, Georgescu S.E., 2017, *Filogenia și istoria evolutivă a sturionilor*, In *Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare*, 69-92, Editura Universitatii Bucuresti, ISBN: 978-606-16-0857-7
22. Dudu A., **Costache M.**, Georgescu S.E., 2017, *Analize moleculare la speciile de sturioni din Dunăre*, In *Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare* capitol, 93-156, Editura Universitatii Bucuresti, ISBN: 978-606-16-0857-7
23. Dudu A., **Costache M.**, Georgescu S.E., 2017, *Biologia și genetica sturionilor*, In *Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare* capitol, 11-68, Editura Universitatii Bucuresti, ISBN: 978-606-16-0857-7
24. Dinescu S., Hermenean A., **Costache M.**, 2017, *Human adipose-derived stem cells for tissue engineering approaches- current challenges and perspectives*, In *Stem Cells and Tissue Engineering*, In Tech, ISBN 978-953-51-5415-0, doi: 10.5772/intechopen.68712
25. Dinescu S., Albu Kaya M., Chitoiu L., Ignat S., Kaya D.A., **Costache M.**, 2018, *Collagen-Based Hydrogels and Their Applications for Tissue Engineering and Regenerative Medicine*, In *Cellulose-Based Superabsorbent Hydrogels*, Springer International Publishing, pg 1-21, doi: 10.1007/978-3-319-76573-0_54-1, ISBN 978-3-319-76573-0
26. Galateanu B., Hudita A., Zaharia C., Bunea M.C., Vasile E., Buga M.R., **Costache M.**, 2018, *Silk-Based Hydrogels for Biomedical Applications*, In *Cellulose-Based Superabsorbent Hydrogels*, Springer International Publishing, Mondal I.H., ed., pg 1-26, ISBN 978-3-319-77830-3
27. Hudiță A., Gălățeanu B., **Costache M.**, 2019, *Nanobiomaterials for tissue engineering*, In *Materials for Biomedical Engineering: Nanobiomaterials in Tissue Engineering*, Editor Grumezescu A., Elsevier Publishing House, ISBN 9780128169094.
28. Selaru A., Dinescu S., **Costache M.**, 2020, *The Cellular and Molecular Patterns Involved in the Neural Differentiation of Adipose-Derived Stem Cells*, In *Advances in Experimental Medicine and Biology*, Springer International Publishing, 1-19, doi: 10.1007/5584_2020_547.
29. Dinescu S., Dobranici A., Tecucianu R., Selaru A., Balahura R., Ignat S., **Costache M.**, 2020, *Exosomes as Part of the Human Adipose-Derived Stem Cells Secretome- Opening New Perspectives for Cell-Free Regenerative Applications*, In *Advances in Experimental Medicine and Biology*, Springer, New York, NY; ed. Kursad Turksen doi: 10.1007/5584_2020_588 (editura internationala).

Lista publicatiilor in jurnale

Publicatii ISI

1. **Costache M.**, Cailleau A., Fernandez-Mateos P., Oriol R., Mollicone R., 1997, Advances in molecular genetics of α -2- and α -3/4-fucosyltransferases, *Transfus Clin Biol*, 4, 367-382; doi: 10.1074/jbc.272.13.8764, **IF 0.487, AIS n/a**
2. **Costache M.**, Apoil P.A., Cailleau A., Elmgren A., Larson G., Henry S., Blancher A., Iordăchescu D., Oriol R., Mollicone R., 1997, Evolution of fucosyltransferases genes in vertebrates, *J Biol Chem*, 272, 29721-29728; doi: 10.1074/jbc.272.47.29721, **IF 6.963, AIS n/a**
3. Oulmouden A. Wierinck A., Petit J.M., **Costache M.**, Palcic M.M., Mollicone R., Oriol R., Julien R., 1997, Molecular cloning and expression of a bovine α (1,3)- Fucosyltransferase gene homologous to a

- putative ancestor gene of the human FUT3-FUT5-FUT6 Cluster, *J Biol Chem*, 272, 13, 8764-8773, doi: 10.1074/jbc.272.13.8764, **IF 6.963, AIS n/a**
4. Elmgren A., Mollicone R., **Costache M.**, Börjeson C., Oriol R., Harrington J., Larson G., 1997, Significance of individual point mutations, T202C and C314T, in the human Lewis(FUT3) gene for expression of the Lewis antigens by the human $\alpha(1,3/1,4)$ fucosyltransferase, Fuc-TIII, *J Biol Chem*, 272, 21994-21998, doi: 10.1074/jbc.272.35.21994 **IF 6.963, AIS n/a**
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Abstracte

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 - 55.

II. Proiecte de cercetare (2004 – prezent)

I. Proiecte de cercetare - internationale

1. COST 844/ Apoptosis and programmed cell death: molecular mechanisms and applications in biotechnology and agriculture, responsabil RO, 1999-2005
2. MRE07/25 FP6-Identification of men with genetic predisposition to prostate cancer:targeted screening in BRCA1/2 mutation carriers and controls (IMPACT study), Membru in Steering Committee RO, 2005-2008
3. COST B19, Molecular cytogenetics of solid tumors, Responsabil RO, 2002-2006
4. COST B23 /Oral facial development and regeneration, partener RO, 2003-2007
5. COST B35, Lipid Peroxidation Associated Disorders – LPO, RAPORTOR COST DC

6. COBIL Romania –Grecia, 2003-2005 –partener RO
7. COBIL Romania –Cipru, 2007-2009 – partener RO
8. COBIL Romania –Belgia Comunitatea Valona –2010-2012, 2013 partener RO
9. COBIL Romania-Belgia Comunitatea Valona 2014-2015
10. Gadolinium Nanohydrogels for Lymph Node magnetic resonance Imaging, EURONANOMED 2014-2017 - research team member
11. **13SINN/2015-2019**, ERA-SIINN-NanoToxClass (2015-2019): „Stabilirea strategiilor de grupare/ clasificare a nanomaterialelor in acord cu toxicitatea si efectele biologice in vederea evaluarii riscului” - valoarea UB: 900.000 lei;
12. RO-NO Fellowship Project Coordinator, SEE-RO15, contract 15/28.07. 2014
13. RO-FR, Bilateral Project, BIOCOPMAT, 2016-2017
14. COST CA15219 (2016-2019) DNAqua-Net ”Developing new genetic tools for bioassessment of aquatic ecosystems in Europe” - RO Comitet de Management
15. COST CA15205 (2016-2020) "Gene Regulation Ensemble Effort for the Knowledge Commons" - RO Comitet de Management
16. COST CA 16120, (2016-2020) "European Epitranscriptomics Network" - RO Comitet de Management

II. Proiecte de cercetare–nationale

A. Director de proiect

1. Modele Celulare pentru Studiul in vitro al Proceselor de Apoptoza si imbatanire la nivelul pielii PNCDI BIOTECH 109/ 2002-2004
2. Markeri moleculari la cai de rasa, 2003-2005, PNCDI BIOTECH /
3. Markeri moleculari la bovine, 2004-2006, BIOTECH /
4. Filogenie moleculara la ciprinidele din Romania, PNCDI CERES /, 2004-2006
5. Implementarea sistemului calitatii pentru determinarea markerilor moleculari, CEEX Modulul IV/, 2006-2008
6. Markeri moleculari utilizati in ameliorarea animalelor de interes economic CEEX 15/. 2005-2008
7. Evaluarea distributiei si caracterizarea variabilitatii genetice a Salmonidelor din Romania, **SALMOGEN**, CNMP/52-167 (2008-2011), **PNII 52-167, 2008-2011**
8. PNII PCCE 248 (2010-2013) „Noi concepte si strategii pentru dezvoltarea cunoasterii de noi structuri biocompatibile in Bioinginerie”
9. PNII PCCA *AQUASTUR* nr.116/2012 „Evaluarea genetica si monitorizarea factorilor moleculari si biotehnologici care influenteaza performantele productive la speciile de sturioni de Dunare crescute in sisteme intensive recirculante” (2012-2015)
10. PN-III-P1-1.2 65PCCDI REGMED (2018-2020) Abordări inovative avansate pentru medicina regenerativă predictivă .

B. Responsabil proiect

1. Retea de laboratoare de cercetare in domeniul Micro si Noanobioinginerie-Bionanonet, PNCDI MATNANTECH CENOBITE /, 2001-2004
2. Centru de cercetare in Nanobiotehnologii (CENOBITE), PNCDI MATNANTECH CENOBITE, centru de excelenta finantat de PNCDI 91/2002 MATNANTECH, 2001-2004
3. Microstructuri materiale biocompatibile destinate microprocesarilor biologice si microanalbiochimice, PNCDI MATNANTECH, 2001-2004
4. Microdispozitiv biomimetic de manipulare si studiere a celulelor aflate sub influenta poluarii si a stressului oxidative”, PNCDI MATNANTECH, 2002-2005
5. Markeri moleculari utilizati in caracterizarea soiurilor autohtone de vita de vie in vederea conservarii si protejarii fondului genetic national, PNCDI BIOTECH / 2004-2005

6. Micro-cip pentru amplificarea si identificarea de ADN, PNCDI MATNANTECH, 2003-2005
7. Multiplicarea rapida a genomurilor valoroase prin biotehnologii moderne de reproducie (embriotransfer) la vaci din rasa Montbeliarde, CEEX BIOTECH, 2005-2008
8. Materiale ceramice performante cu aplicatii in ortopedie si stomatologie, CEEX RELANSIN /, 2005-2008
9. Studiul compozitelor ceramice cu proprietati magnetice pentru aplicatii biomedicale/bioceramice, CEEX VIASAN/, 2005-2008
10. Modularea expresiei unor markeri biologici ai progresiei tumorale si corelarea cu rezistenta la chimioterapie in cancerele mamare si ovariene, 2006-2008
11. Markerii de diagnostic si criteriile de management in infectia de col uterin cu virusuri papiloma umane, 2006-2008
12. Conservarea si utilizarea durabila a sturionilor din dunarea inferioara, 2006-2008
13. Polimorfisme prezente in profilul genetic al citokinelor implicate in rejetaul de grefa si in producerea infectiilor virale la pacientii primitori de transplan, 2006-2008
14. Generarea de micro-nanoparticuli care contin solutii de antibiotice expuse la radiatii laser in vederea invingerii rezistentei la tratament, CNMP/ 41-018 -, 2007-2010
15. Fotosensibilizatori ftalocianici pentru terapie fotodinamica, CNMP/61-023/2007
16. Nanoparticule de oxid de fier biocompatibile obtinute prin coprecipitare CNMP/ 71-097/2007
17. CNMP/62-068 (2008-2011) Integrarea particularitatilor genetice si clinico-biologice intr-un algoritm decizional asistat informatic pentru diagnosticul si tratamentul obezitatii
18. CNMP- 52-174 (2008-2011) Valorificarea biodiversitatii florei spontane din romania in scopul imbogatirii sortimentului de plante ornamentale
19. CNMP/ 41-018 (2007-2010) Generarea de micro-nanoparticuli care contin solutii de antibiotice expuse la radiatii laser in vederea invingerii rezistentei la tratament
20. CNMP/61-023 (2007-2010) Fotosensibilizatori ftalocianici pentru terapie fotodinamica. Sinteza si fotosinteza
21. CNMP 51-004 (2007-2010) Program integrat de supraveghere a sanatatii si cresterea productiei in fermele de vaci pentru lapte
22. Developing new graphene-polymer composites biomaterials for scaffold fabrication with applicability in bone repair by coupling multiscale molecular modelling and experiments”, PN-II-PT-PCCA-2011-3.1-1538 POLYGRAPH (2012-2015):
23. Improving of oral and systemic health using modified alloy dental work, PNII 130/2014 ORALSIS (2014-2017)
- 24) 61PCCDI/2018- « Platforma multidisciplinară pentru creșterea capacității instituționale regiilor dermatologiei și dermatopatologiei (PATHDERM) » 253) 39PCCDI/2018- « Materiale inteligente pentru (INTELMAT)»
- 25) **93PED/2017**, (2017-2018): Proiectarea si dezvoltarea de sisteme “drug delivery” bazate pe ciclodextrine cu scopul de a imbunătăți activitatea antifibrotică a crisinei in bolile cronice hepatice -

Membru în echipă

1. Electro-Plasmonics for analyses of the dynamics of cellular processes and biomolecular interactions- BioScope, PCCE, 2012-2015
2. **19PTE/2016** (2016-2018): "Dezvoltarea unei tehnologii de utilizare a biopsiilor lichide pentru prognosticul si modularea terapiei in tumorile epiteliale maligne (TUMFLOW)" - valoarea UB: 500.000 lei;

3. **10PCCF/2018** (2018-2022): “Selectia si diseminarea genelor de rezistenta la antibiotice de la nivelul statiilor de epurare a apelor uzate in mediul acvatic si sectorul clinic (RADAR)” – val DBBM: 1.000.000 lei;
3. PN-III-P2-2.1-BG-2016-0443: “Implementarea interdisciplinara aplicativa si evaluarea toxicologica ale unor noi formulari farmaceutice ale capsaicinei.”
4. PN-III-P2-2.1-BG-2016-0458: “Transferul cunoasterii privind optimizarea utilizarii PRP pentru eficientizarea proceselor tisulare regenerative”
5. **12BG/2016** (2016-2018): „Initierea unei noi game de produse fitoterapeutice in portofoliul de produse al companiei S.C. PlantExtrakt SRL” - valoarea UB: 460.000 lei;
6. PN-III-P2-Parteneriate 16PED/2017 (2017-2018) Tehnologie de obtinere a unui stoc valoros de Iostrita pentru cresterea in acvacultura si reintroducerea in mediul natural (valoare UB 360.000 ron).
7. PN-III-P2-Parteneriate 53PTE/2016 (2016-2018) Tehnologie de selectie și ameliorare genetică în vederea creșterii profitabilității acvaculturii sturionilor (valoare UB 470.000 ron).
8. PN-III-P1-1.2 8PCCDI (2018-2020) De la nutriția clasică la nutriția de precizie în domeniul creșterii animalelor, bază științifică pentru asigurarea securității nutriționale a populației (valoare UB 246.500 ron 2018).
9. PN-III-P2-Parteneriate 184PED/2017 (2017-2018) Metodologie de certificare genetică a speciilor de sturioni din acvacultura în vederea valorificării produselor și participării la acțiuni de repopulare.
10. PNIII-10/2018 (2018-2022) Selecția și diseminarea genelor de rezistență la antibiotice de la nivelul stațiilor de epurare a apelor uzate în mediul acvatic și sectorul clinic.
11. **8PCCDI/2018** (2018-2021): „De la nutriția clasică la nutriția de precizie în domeniul creșterii animalelor, bază științifică pentru asigurarea securității nutriționale a populației” - valoare UB: 850.000 lei;
12. **63PCCDI/2018** TERAMED (2018-2021): “Proiect integrat de dezvoltare a unor tehnologii dedicate tratamentelor medicale avansate” - valoarea DBBM: 285.158 lei;
13. **131PD/2018** (2018-2021): “Sisteme inteligente de drug delivery etichetate cu secvente de ADN pentru abordarea moderna a terapiei in cancer” - valoarea UB: 250000 lei
14. **29PTE/2020** (2020-2022): „Biopsia lichidă-alternativă modernă în determinarea profilului molecular prin NGS pentru modularea terapiei în cancerul avansat. Validare și implementare” - valoarea UB: 400 000 lei;
15. **262PED/2020** (2020-2022): „Un nou produs pe bază de extract gemoterapic de *Corylus avellana* îmbogățit cu nanocomplexe de crisină/ciclodextrine destinat fibrozei hepatice în diabetul zaharat” – valoarea UB: 300.000 lei;
16. **153PD/2020** (2020-2022): „Evaluarea eficienței terapiei combinate cu celule stem derivate din țesutul adipos (ADSC) pentru reversia fibrozei hepatice în diabetul zaharat” - valoarea UB: 246.950 lei;