

INFORMAȚII PERSONALE

Marieta Costache

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💬 Skype

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 Română, București (România)

1985–1990 **Post obținut prin repartitie Guvernamentală**

Institutul de Cercetări Sanitar Veterinare Pasteur, în laboratorul de Metabolism și Patologia Nutriției, Fabrica de Drojdie Frajeră ICPCH Brăila

EDUCAȚIE ȘI FORMARE

01/2000–01/2000 **Stagiu Post-doctoral**

Echipe: „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-fucoziltransférases 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	Citare	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	Citare	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, secvențiazare 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 mutații ADN: tehnicile ASO și RFLP/Southern blot, DGGE, SSCP, HOAS, AOAS, secvențierea directă produși PCR;
- Tehnici specifice de analiză a ARN: Northern blot, RT-PCR, Real-Time PCR, microarray, transcripția și translația ARN în vitro, DDRT-PCR., Secvențiere de noua generație.
- Elucidarea funcție biologică proteine: proteine recombinante; purificare FPLC; electroforeza nativă/denaturantă, imunodetecție prin ELISA, Western blot și imunocitochimie.
- Biologie celulară: evaluare compusi biologic activi pe linii COS, HeLa, Sp2/0, CaCo2, HL60, HaCat; culturi primare de mioblaste, fibroblaste, 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 bioinformatic și biostatistice: Office 2000 (Word, Excel, Power Point), Corel Draw 9 și 10, Software de filogenie moleculară, etc.

Permis de conducere B

INFORMAȚII SUPLIMENTARE
Publicații

Carti si Lucrări Publicate si comunicate (prezentate in Anexă)

-26 carti si capitole de cărți dintre care 12 Cursuri universitare si monografii, 9 capitole in carti in edituri straine, 2 capitole in monografie Academia Romana; 3 capitole in monografie Editura Universitatii din Bucuresti,

-134 articole in reviste ISI cu factor de impact, 3 articole „proceedings” ISI,

-100 in reviste BDI,

-31 comunicari la congrese, simpozioane, conferinte internationale, in extenso,

-52 Conferinte internationale in rezumat,

Proiecte

-16 Comunicari la congrese si simpozioane nationale, in extenso sau/si in format electronic,

-65 Comunicari la congrese si simpozioane in tara, in rezumat/postere

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 consortiu CNCSIS-responsabil UB-BCUM-BM, PCCE 248/2010-2013. Contracte finantate PN, ex selectie: PNII PCCAQUASTUR 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 aplicatii medicale (INTELMAT)"; 8PCCDI/2018- "De la nutritia clasica la nutritia de precizie in domeniul cresterii animalelor, baza stiintifica pentru asigurarea securitatii nutritionale a populatiei (IBNA PLUS)"

5 proiecte finantate de FSE:

› FSE POSDRU AI 1.5, CN 89, No 58852 "Program Postdoctoral pentru formarea de cercetatori in stiinte", Director Executiv, 2010-2013

› FSE POSDRU AI 1.5, CN 88, No 61150, "Studii doctorale in domeniul stiintelor vietii si pamantului", Responsabil stiintific, 2010-2013

› FSE POSDRU AI 3.2, CN 81, No 55362 "Program de specializare pentru formarea resurselor umane din domeniul biomedical si biotehologic" Director de Proiect, 2010-2013

› FSE POSCCE Cod SMSI 915/14043 "Platforma de cercetare in Biologie si Ecologie Sistemica, Director Executiv, 2010-2014

› FSE POSDRU 159/1.5/S/ 133391 "Programe doctorale si post-doctorale de excelenta pentru formarea de resurse umane inalt calificate pentru cercetare in domeniile Stiintele Vietii, Mediului si Pamantului", Coodonator Consortiu Universitatea din Bucuresti, Director de Proiect 2014- 2015

Conferințe

Afilieri

Peste 25 stagii de Profesor invitat/Conferințe invitate in tara si strainatae

› Membru în societăți științifice naționale: Societatea Română de Biochimie și Biologie Moleculară din 1990, vicepresedinte 2006-2009; Societatea Romană Anatomie Patologică din 2003, Membru Societatea Romană de Biologie celulară și Moleculară din 2002, Societatea Romană de Bioinginerie și Biotehologie 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 si 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 Commision” pentru Programe COST din 2002 - Evaluator științific TCMH,

• Reprezentant Romania in „Domain Commitee Biomedicine and Molecular Biosciences, Evaluator si Raportor programe COST DC BMBS, 2004-2014

• Membru al comisiei 4 CNCSIS, „Științele Vieții și ale Pământului” 2004- 2010

• Evaluator Horizon2020 2014 - prezent

• Membru si secretar Comisia permanenta I Stinte Exacte si Stiinte ale Naturii, ARACIS, Evaluator programe de studii ARACIS.

Referințe Indicele H SCOPUS/Google Academic = 28; i10 index=60; 2288 Citări Google Academic/Scopus

Citări Indicele H ISI Thompson=21, 1379 citări, 167 publicații indexate ISI; ResearcherID: F-2806-2016
ORCID ID: 0000-0002-8103-3693

Cursuri

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

Patente

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

Alte activități

- 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)

- 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-universitary 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., Vatasescu-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., Virban 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. **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.
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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.
27. 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.

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

Conferințe internaționale

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II. Proiecte de cercetare (2004 – prezent)

I. Proiecte de cercetare - internationale

COST 844/ Apoptosis and programmed cell death: molecular mechanisms and applications in biotechnology and agriculture, responsabil RO, 1999-2005

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

COST B19, Molecular cytogenetics of solid tumors, Responsabil RO, 2002-2006

COST B23 /Oral facial development and regeneration, partener RO, 2003-2007

COST B35, Lipid Peroxidation Associated Disorders – LPO, RAPORTOR COST DC

COBIL Romania –Grecia, 2003-2005 –partener RO

COBIL Romania –Cipru, 2007-2009 – partener RO

COBIL Romania –Belgia Comunitatea Valona –2010-2012, 2013 partener RO

COBIL Romania-Belgia Comunitatea Valona 2014-2015

Gadolinium Nanohydrogels for Lymph Node magnetic resonance Imaging, EURONANOMED 2014-2017 - research team member

RO-NO Fellowship Project Coordinator, SEE-RO15, contract 15/28.07. 2014

RO-FR, Bilateral Project, BIOCOPMAT, 2016-2017

COST CA15219 (2016-2019) DNAqua-Net ”Developing new genetic tools for bioassessment of aquatic ecosystems in Europe” - RO Comitet de Management

COST CA15205 (2016-2020) "Gene Regulation Ensemble Effort for the Knowledge Commons" - RO Comitet de Management

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 cancerle mamare si ovariene, 2006-2008
11. Markeri de diagnostic si criterii 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 rejetul de grefa si in producerea infectiilor virale la pacientii primitori de transplan, 2006-2008
14. Generarea de micro-nanopicutari 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 paricularitatilor 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-nanoplicaturi 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)
- 2) 61PCCDI/2018- « Platforma multidisciplinară pentru creșterea capacității în domeniul dermatologiei și dermatopatologiei (PATHDERM) »
- 3) 39PCCDI/2018- « Materiale inteligente pentru aplicatii medicale (INTELMA) »
- 4) 8PCCDI/2018- « De la nutritia clasica la nutritia de precizie in domeniul bazei stiintifice pentru asigurarea securitatii nutritionale a populatiei (IBNA PLUS) »
- 5) 10PCCF/2018- « Selectia si diseminarea genelor de rezistenta la antibiotice c de epurare a apelor uzate in mediul acvatic si sectorul clinic (RADAR) »
- 6) 19PTE/2016- "Dezvoltarea unei tehnologii de utilizare a biopsiilor lichide pe modularea terapiei in tumorile epiteliale maligne (TUMFLOW)"

Research Team Member

1. Electro-Plasmonics for analyses of the dynamics of cellular processes and biomolecular interactions- BioScope, PCCE, 2012-2015
2. PN-III-P2-2.1-PTE-2016-0149 TUMFLOW 2016-2018: “Liquid biopsy technology development for prognostics and therapy modulation in malignant epithelial cancers”
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. PN-III-P2-Parteneriate 16PED/2017 (2017-2018) Tehnologie de obtinere a unui stoc valoros de lostrita pentru cresterea in acvacultura si reintroducerea in mediul natural (valoare UB 360.000 ron).
6. 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).
7. 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).
8. 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.
9. 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.