

CURRICULUM VITAE
EUROPEAN

ANEXE



Prof. Dr. Marieta COSTACHE

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. **Marieta Costache**, Anca Dinischiotu, *Hydrosoluble Vitamins*, ProTransilvania, Bucharest ed., 1998, ISBN 973-98548-3-4

2. Anca Dinischiotu, **Marieta Costache**, *Carbohydrates Biochemistry*, ProTransilvania, Bucharest ed., 1998, ISBN, 973-98548-2-6, 116 p

3. Anca Dinischiotu, **Marieta Costache**,. 2004, *General Biochemistry, tome I, Proteins, Carbohydrates and Lipids*, Ars Docendi ed., ISBN 973-558-134-5; 973-558-133-7, 200 p

4. **Marieta Costache**, Anca Dinischiotu, 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. Elena Ionica, **Marieta Costache**, 2004, *General Biochemistry, tome III, Vitamins and Mineral elements*, Ars Docendi ed., ISBN 973-558-134-5; 973-558-136-1, 300 p

6. **Marieta Costache**, Anca Dinschiotu, 2004, *Methods in Biochemistry analysis, tome I, Electrophoresis*, Ars Docendi ed., ISBN 973-558-137-X, 250p

7. **Marieta Costache**, 005, *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. Mihaela Zăuleț, Sergiu Georgescu, **Marieta Costache**, „Implementation of Quality System for microsatellites molecular markers analysis in cattle and horses”, 2008, „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, *Interface Controlled Thin Films*, pp 67-71, Part of the Springer Proceedings in Physics Book series (SPPHY, vol 129)

10. Sergiu Emil Georgescu, **Marieta Costache**, *Laboratory practical works in nucleic acid biochemistry and molecular biology*”, Ed University of Bucharest, 2010.

11. Georgescu Sergiu Emil, Dudu Andreea, Suci Radu, Virban Ionuț, Ionescu Ovidiu, **Costache Marieta** "Genetic evaluation and characterisation of Romanian Salmonids ", Ed University of Bucharest, 2011, ISBN 978-606-16-0036-6.

12. Sergiu Emil Georgescu, **Marieta Costache**, **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](#), February 2012

13. **Marieta Costache**, Andreea Dudu, Sergiu Emil Georgescu, **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](#), February 2012

14. **Marieta Costache**, Maya Simionescu, editori, **Advanced biocompatible structures for prospective bioengineering: Concepts and strategies**, Editura Academiei Romane, ISSN: 978-973-27-2317-3, 2013.

15. B. Gălățeanu, S. Dinescu, **M.Costache**, Tissue engineering strategies for adipose tissue reconstruction, **capitol** în “Advanced biocompatible structures for prospective bioengineering: Concepts and strategies”, Editura Academiei Romane, ISSN: 978-973-27-2317-3, 2013.

16. S. Dinescu, B. Gălățeanu, **M.Costache**, ”Current notes on chondrogenesis for cartilage tissue engineering applications”, **capitol** în “Advanced biocompatible structures for prospective

bioengineering: Concepts and strategies”, Editura Academiei Romane, ISSN: 978-973-27-2317-3, **2013**.

17. Andreea Dudu, Sergiu Emil Georgescu, **Marieta Costache**, *Evaluation of genetic diversity in fish using molecular markers* in **Genetic Diversity**, InTech, March 2015, <http://dx.doi.org/10.5772/60423>

18. Hermenean A., Dinescu S.#, Ionita M., **Costache M.**, The impact of graphene oxide on bone regeneration therapies, chapter in “Bone Regeneration”, InTech 2016, ISBN 978-953-51-4686-5.

19. Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare, Coordonatori: **Marieta Costache** și Victor Cristea, 2017, Editura Universității din București, București, România, ISBN 978-606-16-0857-7.

20. Andreea Dudu, **Marieta Costache**, Sergiu Emil Georgescu, Filogenia și istoria evolutivă a sturionilor, 2017, capitol in Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare capitol, 69-92, Editura Universitatii Bucuresti,

21. Andreea Dudu, **Marieta Costache**, Sergiu Emil Georgescu, Analize moleculare la speciile de sturioni din Dunăre, 2017, capitol in Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare capitol, 93-156, Editura Universitatii Bucuresti, ISBN

22. Andreea Dudu, **Marieta Costache**, Sergiu Emil Georgescu, Biologia și genetica sturionilor, 2017, capitol in Biologia și genetica sturionilor de Dunăre: aplicații în acvacultură și conservare capitol, 11-68, Editura Universitatii Bucuresti, ISBN

23. Dinescu S., Hermenean A., **Costache M.** Chapter 14. Human adipose-derived stem cells for tissue engineering approaches- current challenges and perspectives, Stem Cells and Tissue Engineering, In Tech ISBN 978-953-51-5415-0, <http://dx.doi.org/10.5772/intechopen.68712>

24. Sorina Dinescu, Madalina Albu Kaya, Leona Chitoiu, Simona Ignat, Durmus Alpaslan Kaya, Marieta Costache, 2018, Collagen-Based Hydrogels and Their Applications for Tissue Engineering and Regenerative Medicine, in Cellulose-Based Superabsorbent Hydrogels, Springer International Publishing, pg 1-21,

25. Bianca Galateanu, Ariana Hudita, Catalin Zaharia, Mihaela-Cristina Bunea, Eugenia Vasile, Mihaela-Ramona Buga, Marieta Costache, 2018, in Cellulose-Based Superabsorbent Hydrogels, Springer International Publishing, pg 1-26

26. **A. Hudiță**, **B. Gălățeanu**, **M. Costache**, Nanobiomaterials for tissue engineering, capitol în” Materials for Biomedical Engineering: Nanobiomaterials in Tissue Engineering”, Editor Alexandru Grumezescu, Elsevier Publishing House, 2019

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

Cereri de brevete

A00707/21.09.2018 – Procedeu de selecție a celulelor tumorale circulante de adenocarcinom de colon pentru analiza prin citometrie în flux; Autori: Gălățeanu B., Hudiță A., Costache M., Negrei C., Ginghină O., Ardeleanu C.M., Dobrea C.M., Buburuzan L., Zamfir (Irofei) A.

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2. **Marieta Costache**, P. A. Apoil, A. Cailleau, A. Elmgren, G. Larson, S. Henry, A. Blancher, D. Iordăchescu, R. Oriol, R. Mollicone, Evolution of fucosyltransferases genes in vertebrates, *J Biol Chem*, 272, 29721-29728, 1997; **IF 5,587, SRI 2,46889; AIS=2,188**

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4. Elmgren, Rosella Mollicone, **Marieta Costache**, C. Börjeson, R. Oriol, J. Harrington, G. Larson, Significance of individual point mutations, T202C and C314T, in the human Lewis(FUT3) gene for expression of the Lewis antigens by the human α (1,3/1,4)fucosyltransferase, Fuc-TIII, *J Biol Chem*, 272, 21994-21998, 1997 ; **IF 5,587, SRI 2,46889; AIS=2,188**

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7. N. Dojană, **Marieta Costache**, Anca Dinischiotu, The Activity of some digestive enzymes in domestic rabbits before and after weaning, *Animal Science*, vol 66, 501-517, 1998., **AIS=0,211**

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22. Huculeci R., Dinu D., Staicu A.C., Munteanu M.C., **Costache M.**, Dinischiotu A., Malathion-Induced Alteration of the Antioxidant Defence System in Kidney, Gill and Intestine of *Carassius auratus gibelio*, **Environ. Toxicol.**, 24(6), 523-530, 2009 **IF 1,831, SRI 1,17158; AIS=0,566**
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51. Ana-Maria Krapal, Oana Paula Popa, Elena Iulia Iorgu, **Marieta Costache**, Luis Ovidiu Popa, Isolation and characterization of new microsatellite markers for the invasive softshell clam, *Mya arenaria* (L.) (Bivalvia: Myidae), *Int. J. Mol. Sci.* 2012, 13, 2515-2520 manuscripts; doi:10.3390/ijms130x000x, **IF=2.598 (2011); 5-Year Impact Factor: 2.617 (2011), SRI=1,6; AIS=0,537**
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45. Diana Dinu, Andreea Cristina Staicu, **M. Costache**, A. Dinischiotu (2007) Kidney, gill and intestine biochemical modification in *Carassius auratus gibelio* during malathion treatment. *The 16th International Symposium „Deltas and Wetlands”* of Danube Delta National Institute for Research and Development, Tulcea, 20-22 september 2007, Tulcea, Abstracts no 24

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47. Georgescu Sergiu Emil, Duda Andreea, Luca Cătălina, Suci Radu, **Costache Marieta** – “Characterization of seven microsatellites in the Black Sea sturgeon (*Acipenser stellatus*)”, Book of Abstracts of the XXXI Conference of the International Society for Animal Genetics, Poster 3002, Amsterdam, Olanda, Iulie 20-24, 2008.

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49. S. Kevorkian, M. A. Manea, S. E. Georgescu, A. Dinischiotu, **M. Costache** – „Molecular tests for milk quality in Romanian sheep and goats”, Book of Abstracts of The 59th Annual Meeting of the European Association for Animal Production, Vilnius, Lituania, August 24-27, 2008, p. 63.

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53. B. Galateanu, C. Zaharia, A. Hudita, M. Serban, S. Dinescu, A. Hermenean, A. Ardelean, D. Jianu, M. Costache - „Biocompatibility assessment of novel biomaterials for chronic wounds healing”, **INTERNATIONAL SOCIETY OF REGENERATIVE MEDICINE AND SURGERY (ISRMS), FIRST CONGRESS 12 & 15-16 MAY 2015, Bucharest**

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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 Nanobiotehologie-Bionanonet, PNCDI MATNANTECH CENOBITE /, 2001-2004
2. Centru de cercetare in Nanobiotehologii (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 stresului oxidativ”, 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 biotehologii 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. 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-nanopicuturi 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-nanopicuturi care contin solutii de antibiotice expuse la radiatii laser in vederea invingerii rezistentei la tratament
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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)

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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 acvacultură si reintroducerea in mediul natural (valoare UB 360.000 ron).
6. PN-III-P2-Parteneriate 53PTE/2016 (2016-2018) Tehnologie de selecție 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 acvacultură 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.

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