






<b>INFORMAȚII PERSONALE</b>	<b>BLEOTU CORALIA</b>
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	Sexul feminin   Data nașterii 03/11/1972   Naționalitatea romana

### LOCUL DE MUNCA PENTRU CARE SE CANDIDEAZĂ POZIȚIA

Institutul de Virusologie Stefan S Nicolau – cercetător științific I

### EXPERIENȚA PROFESIONALĂ

- |  |  |
|--|--|
| <p>2018<br/>2014 - prezent<br/>2006 – 2014<br/>2003-2006<br/>1998 – 2003</p> | <p>Sef Departament Patologie Cellară și Moleculară<br/>cercetator științific II<br/>cercetator științific III<br/>cercetător științific<br/>asistent cercetare științifică</p> <p><b>Institutul de Virusologie Stefan S Nicolau</b>, B-dul Mihai Bravu, Nr 285, sector 3, București, cod 030304, PO 77, PO BOX 201, Romania (<a href="http://www.virology.ro">www.virology.ro</a>).<br/>Conducător / responsabil de proiect, membru în echipa de cercetare a proiectelor privind studiul biologiei celulei stem și a celulei tumorale; studiul interacției gazdă - agent infecțios, Cercetare biomedicală/ Sectorul academic</p> |
| <p>2009<br/>2014 - prezent</p>   | <p>cercetator științific III/II (partial)<br/>Lector (partial)</p> <p><b>Universitatea din Bucuresti - Facultatea de Biologie, Catedra de Botanica si Microbiologie Aleea Portocaliilor 1-3, 60101 Bucuresti, Romania</b><br/>Colaborator, membru în echipa de cercetare a proiectelor, lucrari practice imunobiologie (ciclurile de master si doctorat), îndrumător lucrări de licență și de dizertație<br/>Cercetare biomedicală/ Sectorul academic</p>  |

### EDUCAȚIE ȘI FORMARE

- |                   |   |
|-------------------|---|
| <p>2001-2008</p>  | <p><b>Studii postdoctorale</b> <span style="float: right;">Nivel 8 EQF</span><br/><b>POSDRU 89/1.5/s/60746</b> - Institutul Clinic Fundeni, Sos. Fundeni nr. 258, sector 2, București, Romania<br/><b>Cercetare biomedicală:</b> studiul metodelor de izolare, purificare și îmbunătățire a viabilității insulelor pancreatice înainte și post-transplant autolog sau de la donator în moarte clinică; studiul fenomenelor epigenetice in cancerul I de pancreas (metilare și ARNi)</p> |
| <p>1992- 1997</p> | <p><b>Doctor în Medicină</b> <span style="float: right;">Nivel 8 EQF</span><br/><b>Academia Romana, Institutul de Virusologie Stefan S Nicolau</b><br/>Titlul tezei „Semnificația mecanismelor moleculare implicate în transformarea cu papilomavirusuri umane pentru monitorizarea unor cancere umane”</p>   |
| <p>1992- 1997</p> | <p><b>Licenta in Biologie, Specializarea Genetica și Biologie Moleculară</b> <span style="float: right;">Nivel 6 EQF</span></p>   |

**Universitatea din București, Facultatea de Biologie**

Titlul lucrării: Mutațiile și evoluția cancerului

**COMPETENTE PERSONALE**

 Limba(i) maternă(e)  
 Alte limbi străine cunoscute

Română

INTELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare la conversație	Discurs oral	
C1	C1	C1	C1	C1

Engleza

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat

[Cadrul european comun de referință pentru limbi străine](#)

Competențe de comunicare

bune competențe de comunicare dobândite prin experiența proprie de cercetător științific prin participarea la numeroase sesiuni de comunicare la congrese, conferințe și simpozioane în țară și în străinătate

Competențe organizaționale/manageriale

- **Sef Departament Patologie Celulară și Moleculară** (din 2018)
- **Coordonator in granturi și programe de cercetare: director de proiect: 3 proiecte** (2 GAR, 1 VIASAN); **responsabil de proiect: 7 proiecte** (1 VIASAN, 1 CEEX, 3 PNII, 2 PNIII)
- **Membru in echipa de cercetare: 65** programe cu finanțare internă si 7 programe cu finanțare externă. Participari la Conferinte/Congrese internationale (40 ISI/ Clarivate Analytics) și la Conferinte/ Simpozioane Nationale cu/fără participare internațională (peste 100)
- **Expert științific** implementare activitate C si D in cadrul proiectului Cercetarea doctorala si postdoctorala prioritate a invatamantului superior romanesc (Doc-Postdoc) – POSDRU/159/1.5/S/137390
- **Membru mandatat 2012-2016** în Comisia profesional științifică, învățământ și legislație a ORDINUL BIOCHIMISTILOR, BIOLOGILOR SI CHIMISTILOR IN SISTEMUL SANITAR IN ROMANIA (OBBCSSR)

Membru al unor societati ARC (Romanian Association of Cytometry),

profesionale: SRBBM (Societatea Română de Imunologie Societatea Română de Biochimie și Biologie Moleculară afiliata Federation of European Biochemical Societies), SRI (Societatea Română de Imunologie afiliată European Federation of Immunological Societies);

Membru în Societatea Româna de Chimie.

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**Competențe dobândite la locul de muncă**

- 1996** - Curs Microbiologie (CEFOR) organizat de TEMPUS-Phare, București, România
- 1996** - Curs de Biochimie (CEFOR) organizat de TEMPUS-Phare, București, România
- 1998** - Stagiul de perfecționare pentru personalul medical sub egida Proiectului PHARE LIEN, Spitalul Dr. Victor Babeș, București
- 2000** – Curs EMBO „Molecular and cellular biology from plant to human cells”, 29<sup>th</sup> september – 2<sup>th</sup> octomber, 2000, Debrecen, Hungary
- 2001** - Curs de Biochimie și biologie moleculară (CEFOR) organizat de TEMPUS-Phare, București, România
- 2001** - Simpozion aniversar „1901-2001-O sută de ani de școală cantacuzinistă” cu tema „Rezistența bacteriană la antibiotice: istorie și actualitate”, 11-12 octombrie 2001, Institutul Cantacuzino, București.
- 2002** - Atelier de Imunologie Fundamentală”, organizat de Societatea Națională de Imunologie -
- 2002** - Curs de perfecționare postuniversitară, De la Biologia Celulară și Moleculară la Medicina secolului XXI”, organizat de Institutul de Biologie și Patologie Celulară “N. Simionescu”, Academia Română
- 2005** - Simpozion cu tema – Zilele Medicale Medicover-Syneo, 11-12 noiembrie 2005
- 2006**- Stagiul de perfecționare în studii genetice și epigenetice în cadrul Institut fur Genetische Medizin, Universitätsklinikum Bonn, Germania.
- 2008** –Educație medicală continuă: "Cervico-vaginal cytology: AdvancedConcepts", București Romania
- 2008** – Educație medicală continuă:"Managementul și calitatea în laboratoarele de analiză medicală, organizat de CALILAB, București, Romania
- 2009** – Advanced BD FACSCanto II and BD FACSDiva 6 training, oranzat de INCDDPSB Victor Babeș în parteneriat cu Becton Dickinson International, București, Romania
- 2009** – curs Formator în domeniul: Managementul, asigurarea și controlul calității în laborator, Centrul național de perfecționare în domeniul sanitar București, Certificat seria:F, Nr:2345/2009, nr iregistrare: 1179/2009, formator acreditat Ministerul Sănătății
- 2010** - Educație medicală continuă: “Etapile diagnosticului de laborator în microbiologie ” organizat de CALILAB în parteneriat cu OBBCSSR, București, Romania
- 2010** – Atelier de lucru- Welcome to a more colorful world, welcome to more choice, organizat de Asociația de Citometrie din Romania, București Romania
- 2010** – Balkan Flow user’s meeting, organizat de Novaintermid în parteneriat cu Becton Dickinson International, Rovinj, Croația
- 2011** –Formator, Curs organizat de Euro Best Team SRL, conform OG 129/2000, republicată
- 2011** – Manager de proiect, Curs organizat de INCDDPSB Victor Babeș, in cadrul POSDRU TDM, diplomă manager proiect conform OG 129/2000, republicată
- 2012** – Managementul cercetării; Dezvoltarea aptitudinilor pentru succes și competitivitate în cercetarea științifică; Etica în cercetarea științifică, curs in cadrul POSDRU 89/1.5/S60746, București, Romania, diplomă manager proiect conform OG 129/2000, republicată
- 2012** – Workshop exploratoriu (WE20)- Interrelația microorganism-gazdă în patogeneza bolilor infecțioase – organizat de Centrul de învățământ și Documentare „Jacques Monod” din INCDMI” Cantacuzino”, București Romania
- 2012** – Estimarea incertitudinilor de măsurare și validarea metodelor de testare conform SR ISO15189:2007, Aplicații practice, organizat de CALILAB în parteneriat cu OBBCSSR, Bucuresti, Romania
- 2012** – Procesarea și degradarea proteinelor in condiții normale și patologice, curs organizat de Institutul de Biochimie, in cadrul POSDRU 89/1.5/S60746, București, Romania
- 2012** – Metode bioinformatică în genomică și proteomică, curs organizat de Institutul de Biochimie, in cadrul POSDRU 89/1.5/S60746, București, Romania
- 2012** – Aplicațiile tehnicii microarray în cercetările din domeniul cancerului, curs oranzat de Institutul Clinic Fundeni, in cadrul POSDRU 89/1.5/S60746, București, Romania
- 2012** – Bazele moleculare ale infecției virale, curs organizat de Institutul de Biochimie, in cadrul POSDRU 89/1.5/S60746, București, Romania
- 2016** - Seminarul Live Cell Imaging desfășurat în perioada 18-20 octombrie 2016 la Institutul Național de Patologie Victor Babeș.
- 2016** – Biostatistică medicală – workshop „Who is afraid of biostats?”, București, România
- 2015** – Beckman Coulter Astrios Customer Training, Nyon, Elveția

## Competențe digitale

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

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat

**Competențele digitale - Grilă de auto-evaluare**

Scrieți denumirea certificatului.

- o bună stăpânire a o suită de programe de birou ( organizarea fișierelor, programele Word, Excell, Powerpoint, baze de date, Internet)
- bune cunoștințe de editare foto si grafica computerizata ( CorelDraw, Adobe))
- bune cunoștințe de utilizare a software-urilor biostatistice si bionformatic (GraphPad Prism)

**INFORMATII  
SUPLIMENTARE**

**Premii**

**2018\_ Diplomă de excelență – Locul 1-** echipei Dragu D, Matei L, Neacșu I, Zurac S, Necula L, Mambet C, Fikai A, Neagu AI, Chivu-Economescu M, Tihuan B, Kamerzan C, Andronescu E, Diaconu C, Bleotu C, - pentru participarea cu poster la Simpozionul Academician Nicolae Cajal

**2015\_ Premiul Academiei Române pentru 2013, Premiul „Ștefan S. Nicolau”** pentru Suita de 11 lucrări consacrată mecanismelor genetice și epigenetice implicate în carcinogeneza indusă de virusurile papilloma umane (HPV), autori: Coralia Bleotu, Anca Botezatu, Iulia Virginia Iancu și Adriana Pleșa

**2010 – Premiul III colectivului:** Iordache C, M. Lixandru, F. Iordache, A Holban, Bleotu C, C. Chifiriuc, E. Andrei, F. Antohe, pentru posterul: „Morphological and molecular changes induced by apoptosis following treatment with P. Aeruginosa bacterial culture and cell free culture in endothelial cells” prezentată la Conferința aniversară a Institutului de Biologie, 29 sept-1 oct, Bucuresti, Romania

**2008- Outstanding Abstract Award** Dulămea A, Sîrbu Boeți Patricia, S. Dulămea, Chivu M, Bleotu C, Efrimescu Cătălin, A. Cămpeanu, I. Popescu. Mesenchymal stem cells effect in severe neuromyelitis. „2<sup>nd</sup> World Congress in Controversies in Neurology”, 23-26 October 2008, Atena, Grecia, A-74.

**007 – Premiul Anual al Societății Romane de Microbiologie colectivului:** Daniela Cristea, M Lixandru, Elena Pencu, Marcela Bucur, C Larion, Iordache C, Olguța Drăcea, C Balotescu, Bleotu C, O Banu, Lucia Ciudin, Ramona Cernat, Anca Israil, pentru lucrările poster: „Studiul interacțiunii unor tulpini de *Shigella* și *Escherichia coli* enteroinvaziv cu celule HeLa”, „Demonstrarea localizării intracelulare a unor tulpini de *Staphylococcus aureus* și *Pseudomonas aeruginosa* în celulele nefagocitice” prezentate la a XI- Reuniniune Anuală de Microbiologie, 24-26 mai 2007, Mamaia, Romania.

### Lista de publicații

#### Capitole de carte publicate in edituri internationale

1. Bleotu C, Anton G, The Indicators of Predicting Disease Outcome in HPV Carcinogenesis, in the book "Topics on Cervical Cancer With an Advocacy for Prevention" edited by Rajamanickam Rajkumar, ISBN 978-953-51-0183-3, InTech, March 3, 2012.
2. Chifiriuc MC, Socolov D, Moshin Veaceslav, Lazăr V, Mihaescu Grigore and Bleotu C, Host Immune Response to Chlamydia Infection, in the book "Chlamydia" edited by Mihai Mares, ISBN 978-953-51-0470-4, InTech, March 3, 2012.
3. Demetra Socolov, Bleotu C, Nora Miron, Razvan Socolov, Lucian Boiculescu, Mihai Mares, Sorici Natalia, Moshin Veaceslav, Anca Botezatu and Anton G, Correlation Between Chlamydia trachomatis IgG and Pelvic Adherence Syndrome, in the book "Chlamydia" edited by Mihai Mares, ISBN 978-953-51-0470-4, InTech, March 3, 2012.
4. Anton G, Plesa A, Bleotu C, Botezatu Anca, Anton M, Brasoveanu LI and Stoian M, Human Papillomaviruses Oncoproteins, in the book "Oncogene and Cancer - From Bench to Clinic" edited by Yahwardiah Siregar, ISBN 978-953-51-0858-0, InTech, January 1, 2013.
5. Holban AM, Bleotu C, Chifiriuc MC and Lazăr V. Control of bacterial virulence by cell-to-cell signalling molecules. Microbial pathogens and strategies for combating them: science, technology and education. Microbiology Book Series – 2013 Edition, Badajoz (Spain),
6. Bleotu C, Socolov D, Anton M, Botezatu A, Plesa A, Iancu IV, Brasoveanu LI, Anton G, Diaconu CC, Interplay of Epigenetics with Gynecological Cancer, in "Gynecologic Cancers - Basic Sciences, Clinical and Therapeutic Perspectives", Editor Samir A. Farghaly, ISBN 978-953-51-2254-8, publicata in Martie 2016, DOI: 10.5772/61032.
7. Bostan M, Mihaila M, Hotnog C, Bleotu C, Anton G, Roman V, Brasoveanu LI, Modulation of Apoptosis in Colon Cancer Cells by 3 Bioactive Compounds, in Colon Cancer, acceptata in 2016.
8. Bleotu C, Matei L, Dragu LD, Grigorescu L, Diaconu CC, Anton G Genetically Engineered Foods Handbook of Food Bioengineering, Volume 6 Chapter 15 - Methods for Plant Genetic Modification, pages 385–401. <https://doi.org/10.1016/B978-0-12-811519-0.00015-7>
9. Bleotu C, Chifiriuc MC, Socolov R, Socolov D, Introduction in Food Safety Biosecurity and Hazard Control, in Food Control and Biosecurity, Volume 16, pag 1-18, Academic Press 2018, eBook ISBN:9780128114971, Paperback ISBN: 9780128114452.
10. Popa M, Măruțescu L, Ion I, Kamerzan C, Bleotu C, Oprea E, Chifiriuc MC, Lazăr V, Chapter 14 - Antimicrobial and cytotoxic activity of graphene-based perioceuticals, pages 585-599, in Fullerenes, Graphenes and Nanotubes: A Pharmaceutical Approach 2018, Elsevier Inc, DOI: <http://dx.doi.org/10.1016/B978-0-12-813691-1.00014-2>
11. Bleotu C, Mambet C, Matei L, Dragu LD, Chapter 14 -Improving Wine Quality and Safety Through Nanotechnology Applications, In Nanoengineering in the Beverage Industry, Volume 20: the Science of Beverages, 2020, Pag 437-458, Elsevier Inc. All, Academic Press, <https://doi.org/10.1016/B978-0-12-816677-2.00015-6>
12. Gradisteanu-Pircalabioru G, Bleotu C, Curutiu C, Mihaescu G, Chifiriuc MC, Chapter 2 - Nanodrug delivery systems in cancer, in Biomedical Applications of Nanoparticles, Ed. Elsevier, 2019, Pages 31-62. <https://doi.org/10.1016/B978-0-12-816506-5.00015-2>
13. Diaconu CC, Gurban P, Mambet C, Chivu-Economescu M, Necula LG., Matei L, Dragu D, Nedeianu S, Neagu AI, Tatic A, Cristodor D, Bleotu C, Programmed Cell Death Deregulation in BCR-ABL1-Negative Myeloproliferative Neoplasms [Online First], IntechOpen, DOI: 10.5772/intechopen.86062. Available from: <https://www.intechopen.com/online-first/programmed-cell-death-deregulation-in-bcr-abl1-negative-myeloproliferative-neoplasms>

#### Cărți / Capitole de carte publicate in edituri românești

1. Bleotu C, Mecanismele eludării imune specifice infecției HPV, în HPV și colul uterin- Ghid teoretic și practic de diagnostic și conduită terapeutică, pag, 15-20, Editura Academiei Române, București 2011.
2. Bleotu C, Epidemiologia HPV, în HPV și colul uterin- Ghid teoretic și practic de diagnostic și conduită terapeutică, pag, 21-26, Editura Academiei Române, București 2011.
3. Mircioiu Constantin, Ghiciuc C M, Bleotu C, Moldoveanu Bogdan Constantin, Ceaușu Emanoil, Lupușoru Elena Cătălina, Diaconu CC, Bumbacea Dragos, Marchidan Daniela, Matei L, Utilizarea investigatiilor de laborator, farmacocinetice si farmacogenomice pentru individualizarea terapiei antituberculoase, ISBN:978-973-708-578-8.

#### Articole publicate ca autor principal in reviste indexate/ cotate Clarivate Analytics (ISI)

1. Asprițoiu VM, Stoica I, Bleotu C, Diaconu CC, Epigenetic Regulation of Angiogenesis in Development and Tumors Progression: Potential Implications for Cancer Treatment, *Front. Cell Dev. Biol.*, 06 September 2021 ; <https://doi.org/10.3389/fcell.2021.689962> IF=6.684

2. Hotoboc IE, Fudulu A, Grigore R, Bertesteanu S, Huica I, Iancu IV, Botezatu A, Bleotu C, Anton G, The association between lncRNA H19 and EZH2 expression in patients with EBV-positive laryngeal carcinoma. **Acta Otorhinolaryngologica Italica**, 2021; 41:1-7. <https://doi.org/10.14639/0392-100X-N1527>. IF= 2,124
3. Stroe R, Mambet C, Curici A, Ivan F, Alexa L, Morjan C, Hodis N, Matei L, Dragu LD, Lazar V, Bleotu C, Differential expression of NLRP3 inflammasome genes in HPV infected cervical cells, **ROMANIAN BIOTECHNOLOGICAL LETTERS**, 1224-5984, 2021, 26 (1), 2255-2261, 10.25083/rbl/26.1/2255.2261, WOS:000596730800009
4. Vrancianu CO, Popa LI, Bleotu C, Chifiriuc MC. Targeting Plasmids to Limit Acquisition and Transmission of Antimicrobial Resistance. **Front Microbiol.** 2020 6;11:761. doi: 10.3389/fmicb.2020.00761. eCollection 2020. PMID: 32435238. **ISI, IF = 4.236 / 2019.**
5. Chivu-Economescu M, Necula LG, Matei L, Dragu DL, Neagu AI, Alexiu I, Bleotu C, Diaconu CC. Gastrointestinal cancer stem cells as targets for innovative immunotherapy. *World J Gastroenterol.* 2020 Apr 14;26(14):1580-1593. doi: 10.3748/wjg.v26.i14.1580. PMID: 32327907. **IF = 3.665 / 2019**
6. Vlad IM, Nuta DC, Chirita C, Caproiu MT, Draghici C, Dumitrascu F, Bleotu C, Avram S, Udrea AM, Missir AV, Marutescu LG, Limban C. In Silico and In Vitro Experimental Studies of New Dibenz[b,e]oxepin-11(6H)one O-(arylcarbamoyl)-oximes Designed as Potential Antimicrobial Agents. **Molecules.** 2020 Jan 13;25(2):321. doi: 10.3390/molecules25020321. PMID: 31941125. **ISI, IF = 3.267 / 2019** (corresponding author)
7. Zarafu I, Matei L, Bleotu C, Ionita P, Tatibouët A, Păun A, Nicolau I, Hanganu A, Limban C, Nuta DC, Nemeș RM, Diaconu CC, Radulescu C. Synthesis, Characterization, and Biologic Activity of New Acyl Hydrazides and 1,3,4-Oxadiazole Derivatives. **Molecules.** 2020;25(14):3308. doi: 10.3390/molecules25143308. PMID: 32708236. **ISI, IF = 3.267 / 2019**
8. Nitulescu GM, Matei L, Aldea IM, Draghici C, Olaru OT, Bleotu C, Ultrasound-assisted synthesis and anticancer evaluation of new pyrazole derivatives as cell cycle inhibitors, *Arabian Journal of Chemistry* (2019) 12, 816–824, <http://dx.doi.org/10.1016/j.arabjc.2015.12.006>
9. Bleotu C, Socolov D, Stanculescu R, Socolov R, Anton M, Anton G. Methods of investigation of human microbiome in obstetrics and gynecology. *Rom Biotechnol Lett.* 2019; 24(2): 344-353. DOI: 10.25083/rbl/24.2/344.353
10. Stroe R, Mambet C, Curici A, Ivan F, Alexa L, Morjan C, Lazar V, Bleotu C. The prevalence of hrHPV in a significant cohort of Romanian women. *Rom Biotechnol Lett.* 2019; 24(1): 75-81. DOI: 10.25083/rbl/24.1/75.81
11. Mambet C, Chivu-Economescu M, Matei L, Necula LG, Dragu DL, **Bleotu C (contributii egale)**, Diaconu CC. Murine models based on acute myeloid leukemia-initiating stem cells xenografting. *World J Stem Cells.* 2018, 10 (6): 57-65. doi: 10.4252/wjsc.v10.i6.57.
12. Călinescu A, Turcu G, Nedelcu RI, Brinzea A, Hodoroagea A, Antohe M, Diaconu C, **Bleotu C (contributii egale)**, Pirici D, Jilaveanu LB, Ion DA, Badarau IA. On the dual role of Carcinoembryonic Antigen-Related Cell Adhesion Molecule 1 (CEACAM1) in Human Malignancies, *J Immunol Res.* 2018; 2018:7169081. doi: 10.1155/2018/7169081. eCollection 2018.
13. Chivu-Economescu M, Matei L, Necula LG, Dragu DL, **Bleotu C (contributii egale)**, Diaconu CC. *New therapeutic options opened by the molecular classification of gastric cancer.* *World J Gastroenterol.* 2018, 24 (18): 1942-1961. doi: 10.3748/wjg.v24.i18.1942.
14. Abbas H, Pitică-Aldea IM, Popescu C, Matei L, Dragu D, Economescu M, Alexiu I, Crișan I, Diaconu CC, **Bleotu C (contributii egale)**, Lupuleasa D. The antiviral/ virucidal effects of alcoholic and aqueous extracts with propolis from Oradea, Romania. *Farmacia*, 2017, 65 (6): 868- 876.
15. **Bleotu C**, Chifiriuc MC, Mircioaga D, Sandulescu O, Aldea IM, Banu O, Ion DA, Diaconu CC, Lazar V. The influence of nutrient culture media on Escherichia coli adhesion and biofilm formation ability *Romanian Biotechnological Letters*, 2017, 22 (2): 12483 - 12491.
16. Săndulescu O, **Bleotu C (equal contribution)**, Matei L, Streinu-Cercel A, Oprea M, Drăgulescu EC, Chifiriuc MC, Rafila A, Pirici D, Tălăpan D, Dorobăț OM, Neguț AC, Oțelea D, Berciu I, Ion DA, Codiță I, Calistru PI, Streinu-Cercel A: Comparative evaluation of aggressiveness traits in staphylococcal strains from severe infections versus nasopharyngeal carriage. *Microbial pathogenesis*, 2017, 102, 45 -53.
17. Tudose M, Culita DC, Musuc AM, Somacescu S, Ghica C, Chifiriuc MC, **Bleotu C**: Lipoic acid functionalized SiO<sub>2</sub>@Ag nanoparticles: Synthesis, characterization and evaluation of biological activity. *Materials Science & Engineering C-Materials for Biological Applications*, 2017, 79:499-506.
18. Georgescu M, Gheorghe I, Curutiu C, Lazar V, **Bleotu C**, Chifiriuc MC: Virulence and resistance features of *Pseudomonas aeruginosa* strains isolated from chronic leg ulcers. *BMC Infectious Diseases* 16 Suppl 1:92, 2016. DOI 10.1186/s12879-016-1396-3

19. Mambet C, Chivu-Economescu M, Matei L, Stoian M, **Bleotu C**: Strategies to Overcome Multi-Drug Resistance in Cancer Cells: the Contribution of siRNA and Nanotechnologies. *Current Organic Chemistry* 2016, 20, 2971-2982.
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91. **Bleotu C**, C C. Diaconu, M Chivu, I Alexiu, Anton G, S. Croitoru, S.M. Ruță, C. Cernescu, A new cell line available to support isolation and growing of viruses, poster presented to Anual SRBBM Meeting, Bucharest, 12 December 2003 - abstract in Rom. J. Biochem., 40, 3-4, pp. 38.
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103. Topârceanu F, Ispas D, **Bleotu C**, Alexandrescu R, Ionescu M. D, Correlation of soluble receptor IL-2 with apoptosis of peripheral lymphocytes in HIV infection. XXVIII National Conferences of Immunology, 27-29 October 1999, Craiova (P. nr. 49), vol. rez, pp. 33.
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#### Brevete de invenții:

##### Acordate (2)

1. **Brevet de invenție Nr. 122638B1**; Inventatori: Limban C, Misir AV, Drăghici Bogdan, Chifiriuc MC, Bleotu C; Titlul: Tioureide N,N'-disubstituite ale acidului 2-(4-fluorofenoximetil)-benzoic. (BOPI 10/2009 International Patent Classification: C07C 335/04 si C07C 235/42).

2. **Brevet de invenție Nr. 123278B1**; Inventatori: Sasarman Elena, Chifiriuc MC, Pelinescu D-Roxana, Bleotu C, Vassu Tatiana, Stoica Ileana; Titlul: Procedeu de izolare, selecție și conservare a unei tulpini de *Lactobacillus paracasei* ssp. *Paracasei*, bacterie lactică pentru uz uman; BOPI 5/2011. International Patent Classification: C12N001/02; C12N001/20

#### Cereri brevete de invenție (4)

1. Cerere brevet invenție **RO 129522A0**, class: A61K 9/48(2006.01); A61PP 35/00 (2006.01); No file: a 2013 00885; Storage data: 25.11.2013; Publication of the application: 30.06.2014; **BOPI 6/2014** - Nitulescu GM, Aldea MA, Bleotu C, Matei L, Hirjau M, Velculescu BS, Olaru OT, Antitumoral agents derives of N-(4-hidroxy-4-methyl-3-feniltiazolidin-3-iliden)-1-methyl-1H-pirazol-4-carboxamide.
2. Cerere brevet invenție **RO132002A0 (A/00927/28.11.2016)** Procedeu de obtinere a unor sisteme oraganotipice de pancreas pentru realizarea unei chemograme personalizate (Establishing a personalized chemogram used in managing the patient with pancreatic cancer).
3. Cerere brevet invenție **A/00846/26.10.2018** - Procedeu de obținere a unui extract total concentrat de rostopască (*Chelidonium majus*) cu activitate antimicrobiană, antivirală, antitumorală și imunomodulatoare
4. Cerere brevet invenție **A/00854/30.10.2018** - Procedeu de obținere a unui extract total concentrat de cătină roșie (*Tamarix gallica*) cu activitate antimicrobiană, antivirală, imunomodulatoare și antiproliferativă
5. Cerere brevet invenție **A/01009/29.11.2018** - Procedeu de obținere a unor hidrogeluri compozite pe bază de colagen și nanoparticule de argint pentru prevenirea infecțiilor de plagă

#### Indrumator lucrări de diplomă și dizertații

##### Lucrari de diplomă

2010 - Metode de studiu al virusurilor herpetice și al coinfecției HSV- *Stahpylococcus aureus* (Vlad Roxana G)

2010 - Implicațiile proteinelor de șoc termic în carcinogeneză și progresia cancerului (Ducu Robert)

2013 - Influența unor molecule de quorum sensing produse de *Pseudomonas aeruginosa* asupra celulelor stem mezenchimale (Ion Mădălina)

##### Dizertații

2010- Markeri epigenetici în glioblastom (Aldea Ioana Mădălina)

2012 – Studii experimentale de obținere și caracterizare a celulelor stem mezenchimale (Ducu Robert)

2010 - Diagnosticul citologic și molecular în infecția cu papilomavirusuri umane (Petrea Claudia)

2010 - Importanța decelării integrării virale a papilomavirusurilor umane (HPV) (Bobeică Andreea Oana)

2010 - Studiul privind efectul anti-oxidant, imunodulator, antimicrobian și citotoxic, al unor extracte vegetale de *Arnica montana*, *Artemisia absinthium* și *Urtica dioica* (Stanciu Ana)

2010 – Studiul interacțiunii dintre mediatorii bacterieni de quorum-sensing și celulele eucariote (Alina Holban)

2009 - Studiul imunogenității proteinelor de șoc termic bacteriene produse de *Vibrio parahaemolyticus* (Pârcălabioru G)

#### Proiecte de cercetare dezvoltare

##### Director de proiect

1. **GAR 311/2001; 76/2001/AR; 54/2002/AR (2001-2002)** Semnificația mecanismelor moleculare implicate în transformarea cu HPV pentru monitorizarea unor cancere umane,
2. **GAR 294/2003; 136/2003/AR; 128/2004/AR (2003-2004)** Cuantificarea efectelor biologice ale unor inhibitori ai ciclului celular.
3. **VIASAN 223/2003 (2003-2005)** Semnificația infecțiilor persistente EBV și HPV în cancerul laringo-faringian, Proiect finanțat de MEC.

##### Responsabil parteneriat

1. **VIASAN 276 (2003-2005)** Studiul efectelor chimioterapiei intraarteriale și a radiochimioterapiei sistemice la pacienții cu limfoame cu afectare ORL
2. **CEEX-142/2006 (2006-2008)** Constituirea unei rețele integrate pentru studiul biofilmelor microbiene pe substraturi celulare și protetice, în scopul îmbunătățirii diagnosticului și tratamentului infecțiilor cauzate de biofilme;
3. **PNII 41-035 (2007-2010)** Celulele stem neurale tumorale o nouă țintă terapeutică în cadrul tratamentului multimodal al gliomelor cerebrale maligne TUMORSTEM
4. **PNII 42-148 (2008-2011)** Cercetări privind utilizarea investigațiilor farmacogenomice și farmacocinetice pentru individualizarea terapiei antituberculoase în situații clinice particulare.
5. **PNII 42-136 (2008-2011)** Terapii alternative de vindecare a defectelor tisulare majore.
6. **PN-III-P2-2.1-PTE-2016-0177 (2016 – 2018) – 52PTE/2016 - Composite hydrogels based on inorganic nanoparticles and collagen with prolonged antimicrobial activity for the prevention of wound infections**
7. **PN-III-P2-2.1-BG-2016-0369 (2016 – 2018)- 116BG/2016 -Knowledge Transfer on investigation of the anti-infective and antitumoral activity of novel cosmetic and pharmaceutical formulations based on natural extracts**

**Proiecte internaționale (membru în echipa de cercetare)**

1. **COST ACTION B 23 (2004-2006)** - Oral Facial Development and Regeneration
2. **FP7-Cooperation (2009- 20011)**- *Occupational Health and Safety economics –ROWER* Health-2007- 4.2-3: *Building a knowledge repository for occupational well-being economics research (ROWER)* (Coord: Dr. A.Targoutzidis, Greece).
3. **Proiect de colaborare științifică bilaterală între Belgia și România 2002-2005**, *Formal and molecular genetic studies of bipolar affective disorder*, parteneri: Universitatea din Antwerpen, Belgia, responsabil: Prof. Dr. M. Nothen; Spitalul Prof. Al. Obregia”, Romania, responsabil: Prof. Dr. Maria Serbanescu; responsabil Institutul de Virusologie, Romania: Dr. Carmen C. Diaconu (valoarea finantarii: 44.110 Eur BMBF+ 96.000.000 lei MEC)
4. **Proiect bilateral Germania-Romania/ Internationales Buero–BMBF / 2008/** Genotype-phenotype correlation for some candidate genes in bipolar I disorder, 2008-2010 cordonator Life&Brain Center, Universitatea Bonn: Prof. Dr. M. Nothen, Spitalul Prof. Al. Obregia”, Romania, responsabil: Prof. Dr. Maria Serbanescu; Institutul de Virusologie, Romania, responsabil: Dr. Carmen C. Diaconu (valoarea finantarii: 100.000 Eur)
5. **ERANET 74 - COFUND-M-ERA.NET II-BIOMB- 2017 – 2020** - Advanced biodegradable materials based on MgB2 resistant to microbial colonization
6. **POSCCE-A2-O2.2.1-2009-4** - Modernizarea unui centru pentru studiul oncogenezei si al utilizarii oncolizei virale ca strategie terapeutica
7. **POC-A1-A1.1.4-E-2015, ID: P\_37\_798, MYELOAL – EDIAPROT- 2016–2020** Stabilirea Profilului Molecular al Neoplasmelor Mieloproliferative și al Leucemiei Acute Mieloide pentru Designul unor Strategii de Diagnostic Precoce, Prognostic și Tratament.

**Proiecte naționale (membru în echipa de cercetare)**

1. **Grant ANSTI- AT 1999-2000** Prevalența deleției de 32BP în gena receptorului pentru chemochine CCR5 la pacienți cu infecție HIV în România – Corelații cu ritmul de progresie a bolii,
2. **GAR 1999** Design-ul rational și evaluarea biologică a unor noi clase de agenți anti-HIV
3. **Grant ANSTI –C 2000-2002** Cercetări privind rolul glucocorticoizilor endogeni și exogeni în modularea apoptozei limfocitelor periferice în infecția cu HIV,
4. **Grant ANSTI C 2001-2002** Studiul dinamicii unor hormoni glucocorticoizi și citokine proinflamatorii în cursul răspunsului de fază acută la bolnavii cu infecții gripale -
5. **Grant ANSTI 2000-2001** Cercetări privind seroprevalența infecțiilor cu virusurile herpetice umane limfotrope HHV6 și HHV7 în contextul programului național de transplant de organe
6. **VIASAN 051 (2001- 2004)** Factori celulari implicați în rezistența multiplă la medicamente strategii raționale de evaluare și chemoprevenție,
7. **VIASAN 170 (2002- 2005)** Efecte ale ereditatii mateme in boala bipolară. Studiu biometric si molecular.
8. **Grant CNC SIS AT 33466/2002; AT 33954/2003** Evaluarea mecanismelor moleculare implicate in sustinerea hematopoiezei in scopul dezvoltarii unui sistem de cultura adecvat pentru expansiunea ex vivo a celulelor stem hematopoietice.
9. **Grant CNC SIS AT 2003-2004** Molecule de adeziune implicate in mecanisme celulare si moleculare ce contribuie la progresia tumorala.
10. **VIASAN 343/ 2004** Strategii de evaluare si amplificarea a potentialului proliferativ al celulelor stem hematopoietice –implicatii terapeutice.
11. **VIASAN 168/2002** Studii la nivel celular si molecular privind corelatii intre unele gene celulare si virale si diferite tipuri de cancer genitale la femei,
12. **VIASAN 380/2004** Profilul de metilare a unor gene în cancerul de col uterin-biomarker pentru monitorizarea moleculară și prognostic
13. **Viasan 2004- 2006** Particularitati ale raspunsului imun si hormonal in neuroinfecții virale la copii
14. **Viasan 443/2004** Evaluarea clinica, microbiologica si biochimica a eficientei unor noi metode de imunostimulare utilizate in tratamentul afectiunilor periodontale -
15. **GAR 2006-2007**Definirea unui fenotip omogen al bolii bipolare pentru studii genetice pe baza agregarii familiale. Participare la un studiu genetic international.
16. **GAR 2006-2007**Studii privind implicarea virusului citomegalic in patologia rejetului de grefa.
17. **CEEX-TD 94/2006** Diversitatea clonala si caracterizarea marker-ilor moleculari de antibioretizenta si virulenta la bacili gram-negativi izolati din diverse rezervoare de antibioretizenta
18. **CEEX-TD 24/2006** Aplicatii ale mecanismelor de quorum sensing bacterian in dezvoltarea unei noi strategii antiinfecioase

19. **GAR 2005-2006** Cercetări privind sinteza unei proteine himeră cu potențială utilizare în profilaxia și tratamentul infecțiilor genitale cu virusul papiloma uman 16
20. **CEEX 119/2006** Markeri de diagnostic și criterii de management în infecția de col uterin cu virusuri papiloma umane – VIROGIN
21. **CEEX- 96/2006** Integrarea tehnicilor de biologie moleculară și a examenelor citogenetice în diagnosticul splenomegaliilor tumorale- factori etiopatogenici, implicații prognostice și terapeutice – GENCITOSPLEN
22. **CEEX-122/2006** Promovarea cercetării de genetică psihiatrică din România prin parteneriat internațional în studii genetice și epigenetice ale bolii bipolare -
23. **CEEX- 176/2006 (2006-2008)** Studii experimentale asupra celulelor stem mezenchimale umane transfectate în scopul dezvoltării unei strategii terapeutice inovative a glioblastomului. GLIOSTEMCEL
24. **CEEX- 117/2006** Studiul stabilității genetice induse de factori epigenetici în morfogeneza tumorilor mamare: implicații în diagnostic și tratament – REN
25. **GAR 2006-2007** Studii privind implicarea virusului citomegalic în patologia reiectului de grefă,
26. **CEEX 148/2006** Polimorfisme prezente în profilul genetic al citokinelor implicate în reiectul de grefă și în producerea infecțiilor virale la pacienții primitori de transplant.
27. **CEEX 111/2006** Abordarea complexă, celulară, moleculară și genetică a unor noi mecanisme patogene în mieloproliferările maligne.
28. **CEEX 85/2006** Noi strategii de terapie celulară prin folosirea de progenitori hematopoietici din sângele de cordon ombilical.
29. **CEEX 65/2006** Potențialul terapeutic al celulelor stem hematopoietice în afecțiunile hepatice.
30. **CEEX 139/2006** Tehnici de inginerie tisulară cu aplicații în tratamentul fistulelor intestinale.
31. **CEEX (RELANSIN) 129/2006 (2006-2008)** - Noi materiale nanostructurate biocompatibile cu proprietăți dirijate și aplicații biomedicale.
32. **CEEX (RELANSIN) 199/2006 (2006-2008)** -Controlul interacției celulelor umane și bacteriene cu suprafețele nanostructurate: strategii pentru realizarea de biosuprafețe inteligente.
33. **Grant CEEX 86/2006 (2006-2008)** -Aplicarea tratamentului cu fascicule de electroni accelerați în vederea decontaminării microbiene a suplimentelor nutritive din catina.
34. **Grant CEEX 85/2006 (2006-2008)** -Cercetări interdisciplinare privind obținerea unor noi agenți antimicrobieni, caracterizarea fizico-chimică și testarea activității biologice în vederea valorificării în terapia antiinfecțioasă.
35. **Idei 295/2007(2007-2010)** - Metode alternative la testele in vivo pentru demonstrarea potențialului invaziv al tulpinilor de Shigella spp. și Escherichia coli enteroinvazive.
36. **Idei 296/2007 (2007-2010)** Rolul proteinelor de soc termic în patogeneza bacteriană și potențiala lor utilizare în dezvoltarea de noi strategii antimicrobiene.
37. **CNCSIS 1679/2007 (2007-2009)** - Selectarea și controlul eficienței unor alternative ecologice de combatere a infecțiilor oportuniste cu bacterii multirezistente la antibiotice și incluse în biofilme.
38. **CNCSIS 187 (2007-2009)** - Rolul feromonilor bacterieni produși de P. aeruginosa în modularea interacțiunii gazda-agent infecțios.
39. **PNCDI2 41-081/2007** Studiu privind utilizarea expresiei genei E4 a HPV în zona de transformare a colului uterin ca marker de excludere a riscului de progresie către cancer.
40. **PNCDI2 41-030/2007** Mecanisme celulare și moleculare implicate în regresia displaziilor severe de col uterin
41. **PNCDI2-62-057/2008.** Abordare metabolică, genomică și epigenetică a proceselor aterosclerotice și a riscului dezvoltării bolilor cardiovasculare în îmbătrânire. implicații terapeutice
42. **PNCDI2- 41-036/2007** Semnalizarea intracelulară în adenocarcinomul gastric și esofagian
43. **GAR116/2007** Studiu privind profilul citokinelor implicate în răspunsul umoral și celular la pacienții cu keratită herpetică
44. **GAR 82/2008** -Caracterizarea genetică și epigenetică a wwp1- potențial marker în oncogeneza mamară
45. **PN-II-ID-PCE-2011-3-0576 (2011 – 2016)** - Effects of P. aeruginosa quorum sensing molecules on Drosophila genome: a new tool to identify candidate genes involved in host-pathogen crosstalk.
46. **CEEX MII 1640 (2004-2006)** -Aplicații ale mecanismelor de QS în dezvoltarea unor noi strategii anti-infecțioase.
47. **CNCSIS 187/2007 (2007-2008)** -Rolul feromonilor bacterieni produși de pseudomonas aeruginosa în medierea interacțiunilor dintre celulele bacteriene și celulele gazdei eucariote în cursul procesului infecțios.
48. **PN II 62-071/2008 (2008-2011)** - Obținerea unui fitoprodus topic eficient în stimularea procesului de vindecare a leziunilor cutanate.
49. **PN-II 42-150/2008 (2008-2011)** - Cercetări interdisciplinare privind soluționarea unor noi aspecte de antibiorezistență cu implicații majore în patologia chirurgicală cardiovasculară și gastroenterologică.
50. **PN-II PT PCCA 94 (2012-2014)** - Noi dispozitive tubulare protetice nanostructurate cu proprietăți antibacteriene și antibiofilm induse de modificări fizico-chimice și morfologice (AntiBioTube). - Novel nanostructured prosthetic tubular devices with antibacterial and antibiofilm properties induced by physico-chemical and morphological changes

51. **PN-II 3.1-0969 (2012-2014)** - Innovative, multidisciplinary research to investigate the probiotic effects of new lactic acid bacteria strains and consortia (Prolab). - Inovative, multidisciplinary research to investigate the probiotic effects of new lactic acid bacteria strains and consortia
52. **PN-II- 42-151** Genotype – phenotype correlation for some candidate gene in bipolar disorder.
53. **PN-II-PT-PCCA-2011-3.2; 90/2012-2015** Role of S100A4 and MAP4K4 factors in the progression of pancreatic ductal adenocarcinoma (S100MAP).
54. **PN-II-RU-TE-2011-3-0228/2011-2013** Synthesis and antitumor evaluation of some new pyrazole compounds
55. **PN-II-PT-PCCA-2011-3.2; 89/2012-2015** Genome wide study of bipolar disease and genetic risk assessment guide for bipolar I disorder in the Romanian population (GWASBP)
56. **PN-II-87 - PT-PCCA-2013-4-0419 (2014 – 2017)** - Innovative antibacterial and self-cleaning photocatalytic textiles
57. **PN-II-RU-TE-2014-4-2269 (2015 – 2017)** - Magnetite nanoparticles functionalized with natural compounds to modulate *Pseudomonas aeruginosa* virulence and persistence
58. **PN-II-PT-PCCA-2013-4-1292 (2014 – 2017)** - Innovative nanostructured materials and coatings with antimicrobial activity for medical applications
59. **PN-II-PT-PCCA-2013-4-0005 (2014 – 2017)** - Bioceramic composites with local applications in antibacterial therapy
60. **PN-III-P2-2.1-PED-2016-1409 (2017 – 2018)** - Human lactoferrin-derived peptides with broad spectrum antiviral activity
61. **PN-III-P4-ID-PCE-2016-0641 (2017 – 2019)** - Regression-based characterization of mechanisms involving CEACAM-1 in melanoma – an innovative approach for optimizing the management of patients with thin melanomas
62. **PN-II-PT-PCCA-2013-4-2240 (2014 – 2017)** - Implementation of a complex genome profiling diagnostic algorithm for patients with congenital and developmental abnormalities
63. **PN-III-P1-1.2-PCCDI-2017-0629/2018 – 2020-** Innovative bionanomaterials for treatment and diagnosis
64. **PN-III-P2-2.1-PED-2016-0240 (2017 – 2018)** - Sustainable materials based on zinc oxide for antimicrobial applications
65. **PN-III-P2-2.1-PED-2016-1008 (2017 – 2018)** Development of functional model of microbial fuel cell for bioelectricity production with simultaneous municipal wastewater treatment

#### Proiecte educationale si de formare continua

**POS-DRU/81/3.2/S/59616** Specialization for performance, efficiency and results in organ transplant field - S.P.E.R. (proiect condus de Institutul Clinic Fundeni).

**POSDRU/89/1.5/S/60746** - Biotehnologii celulare și moleculare cu aplicații în medicină”, Beneficiar Institutul de Biochimie al Academiei Romane, Bucuresti, in parteneriat cu Institutul Clinic de Boli Digestive si Transplant Hepatic Fundeni USAMVCluj-Napoca, INCDFLPR, UMF Victor Babes Timisoara și Facultatea de Chimie, Universitatea Bucuresti - membru în grupul țintă

**POSDRU/159/1.5/S/137390** -Cercetarea doctorală și postdoctorală prioritate a învățământului superior românesc (Doc-Postdoc), Beneficiar: Universitatea de Medicină și Farmacie „Carol Davila” din București - în calitate de expert în cadrul proiectului