


PERSONAL INFORMATION



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WORK EXPERIENCE

2013-present	Lecturer, PhD
2006-2013	Assistant
2006-2011	PhD Student
2004-2006	Junior Assistant
2002-2004	Associate Research Project
Name and address of employer	University of Medicine and Pharmacy "Carol Davila" 8, Eroii Sanitari Street, zip code 050474, Bucharest, Romania
2018-present	Research Assistant
Name and address of employer	Center of Excellence in Translational Medicine (CEMT), Fundeni Clinical Institute 258, Fundeni Street, zip code 022328, Bucharest, Romania
Main activities and responsibilities	Teaching and research activities: <ul style="list-style-type: none"> • Biochemistry course for first year students and Clinical Biochemistry course for 3rd year students of the Faculty of Midwife and Medical Assistance • Teaching biochemistry practical laboratories to the first year students at Faculty of Medicine and Faculty of Midwife and Medical Assistance (Romanian and English Module) • Coordination of licence and dissertation thesis • Member of the working team of 17 research projects, of which 4 international (2002-present) • 3 national projects as project leader (2014 – 2017; 2016-2017, 2022-present)

EDUCATION AND TRAINING

2011 - 2013	Postdoctoral Researcher Institute of Biochemistry. Romanian Academy, Bucharest, Romania Postdoctoral Thesis " Molecular mechanisms of endoplasmic reticulum stress and apoptosis in β-pancreatic cells ", POSDRU/89/1.5/S/60746 (Coordinator: Dr. Stefana Petrescu)
2006 - 2011	PhD Student Centre of Immunology. Institute of Virology "St.S. Nicolau", Romanian Academy, Bucharest, Romania Thesis: " Study on the interactions between lipids, carbohydrates, protein, antioxidants and blood cells – the relevance on diabetes mellitus complications profile " (<i>in vivo</i> and <i>in vitro</i> studies). Public defence: 20.12.2010 (Coordinator: Dr. Lorelei Brasoveanu); Ministerial Order no 4387/06.06.2011 M.Sc in "Molecular Biology and Biochemistry" University of Bucharest, Faculty of Biology, Bucharest, Romania
2002 - 2004	Thesis: " Variations of stress oxidative parameters in chronic renal failure. The effects of haemodialysis " Diploma of Biochemist University of Bucharest, Faculty of Biology, Bucharest, Romania
1998 - 2002	Thesis: " Studies on adhesion molecules implication in human cancer "

Personal skills and competences

I am working in the field of oxidative stress in different human pathology. I have experience in working with human blood as well as with cell cultures (primary cultures and cell lines as U937, THP-1, INS-1E, β -TC3; MiaPaca2, PANC1, HT-29). Tehniques: UV-VIS spectrophotometric determinations, ELISA, SDS-PAGE, Western Blot, chemiluminescence, PCR, real-time PCR,gluco and lipotoxicity study, Microarray analysis, target miRNA analysis

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A2	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through 14 years teaching experience
- Ability to adapt to multicultural environments, participation in national and international scientific events
- Constancy and perseverance in activity
- Adaptability to changes

Organisational / managerial skills

- 2022 – present Project Leader – miR-DIAB project UEFISCDI (www.cemt.ro)
- 2014 – 2017 Resposable person - UEFISCDI (www.credor.ro)
- Coordinator for 23 licence thesis (UMF „Carol Davila”)
- Coordinator for 5 master thesis 1 Laboratorul de Endocrinologie, Universitatea Antwerpen, Belgia (2008); 5 UMF „Carol Davila”, FMAM (2016, 2023, 2024)
- 2015 Member of the organizing committee of the „**4th International Symposium on Adipobiology and Adipopharmacology (ISAA)** held in Bucharest 28-31 October 2015, Romanian Academy
- 2012 – Project Manager Course (S.C. Schultz Consulting SRL), Bucharest, Romania
- 2009 – Project Manager Course (IraTestConsult SRL), Bucharest, Romania

Other skills

2019 curs microRNA (5 zile), TATAA, Praga, Cehia
 2007 – Real –time PCR course, TATAA, Ghent, Belgia
 2005 – „Modern Biophysical Technique for Human Health” Course, Braşov, Romania

Driving licence Driving licence category B (since 2006)

Honours and awards

2015 - PostDoc Prize (award recognized by Romanian Medical Association)
211, 2013, 2014 - 5 prizes for "Best Poster" to the Medical Association Congress, Bucharest, Romania
2012 - 1 „Best Poster” prize „The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology (RSBMB) & The Conference on Cellular and Molecular Biotechnologies on Medical Applications”, 13-14 September 2012, Bucharest, Romania
3 CNCSIS prizes for 2 ISI articles (*Clin Chem Lab Med.* 2008 and *Alzheimer Dis. Assoc. Disor.* 2015, *Free Radical Research* 2017);

Membership

Member of the Romanian Society of Biochemistry and Molecular Biology (RSBMB) from 2004; „European Association for the Study of Diabetes (EASD) from 2012; „Proceedings of the Romanian Academy Series B: Chemistry, Life Science and Geoscience” – Assistant Scientific Secretary Editor from 2012; Member of Romanian Medical Association from 2013

Fellowship

1 Fellowship in order to attend to the „22nd IUBMB and 37th FEBS Congress”, 4-9 September 2012, Sevilla Spain
 1 Young Science Forum (YSF) Fellowship in order to attend to the 35th FEBS Congress, 23 June- 1 July 2010; Gothenburg, Sweden
 Fellowship for research project „**Atherogenicity of the postprandial state in diabetes mellitus: study on the interactions between lipids, antioxidants and monocytes**”; Endocrinology Laboratory, Antwerp, Belgium (1 year) (2007-2008)
 Fellowship for bilateral research project "**Between-country comparative study on the relationship between dietary habits, nutritional and oxidative stress status and complications in diabetes mellitus**" Endocrinology Laboratory, Antwerp, Belgium (4 months) (2005, 2006)

Books

Co-author for 5 books for medical students

INFORMATII SUPLIMENTARE

Proiecte de cercetare	17
Internationale	3
Naționale	14
Director/Responsabil de proiect	3
Membru în echipa	14
Articole științifice	54
Reviste cotate ISI	34
Reviste indexate CNCSIS B+/PubMed/BDI	20
Participarea cu lucrări la sesiuni de comunicări științifice	118
Postere	95
Prezentate în cadrul unor congrese/conferințe internaționale	72
Prezentate în cadrul unor congrese/conferințe naționale	23
Prezentări orale	23
Cărți/Capitole de cărți (co-autor)	6
Impactul activității științifice	
Citari (WOS, RG, Scholar)	310, 364, 638
Hirsch-index (WOS, Scopus, Scholar)	11, 12, 14

List of publications (selected)

1. Constantinescu DR, Sorop A, Ghionescu AV, **Lixandru D**, Herlea V, Bacalbasa N, Dima SO **EM-transcriptomic signature predicts drug response in advanced stages of high-grade serous ovarian carcinoma based on ascites-derived primary cultures** DOI10.3389/fphar.2024.1363142 *Frontiers in Pharmacology*, 15, **2024** FI=5.6
2. Bogdana Virgolici, Maria Zinaida Dobre, **Lixandru Daniela**, Laura Petcu, Ariana Picu, Constantin Ionescu-Targoviste, Maria Greabu, Elena Violeta Bacanu **The importance of the enzyme Gamma-glutamyltransferase in the pathogenic cluster in type 2 diabetic patients** DOI: 10.2478/rjim-2024-0006 *Romanian Journal of Internal Medicine*, 1-18, **2024**, FI= 1.91
3. Alexandru PR (Flintoaca), Chiritoiu GN, **Lixandru D**, Zurac S, Ionescu-Targoviste C, Petrescu SM, **EDEM1 regulates the insulin mRNA level by inhibiting the endoplasmic reticulum stress-induced IRE1/JNK/c-Jun pathway** DOI10.1016/j.isci.2023.107956 *iScience*, 26 (10). **2023**, FI=5.75
4. Adi Har-Zahav, **Daniela Lixandru**, David Cheishvili, Ioan Valentin Matei, Ioana Raluca Florea, Veronica Madalina Aspritoiu, Inna Blus-Kadosh, Irit Meivar-Levy, Andreea Madalina Serban, Irinel Popescu, Moshe Szyf, Sarah Ferber, Simona Olimpia Dima **The role of DNA Demethylation in Liver to Pancreas Transdifferentiation**, *Stem Cell Research & Therapy* vol 13, article number: 476, **2022** FI = 5.985
5. Maria Alexandra Angelescu, Octavian Andronic, Simona Olimpia Dima, Irinel Popescu, Irit Meivar-Levy, Sarah Ferber, **Daniela Lixandru miRNAs as Biomarkers in Diabetes: Moving towards Precision Medicine** *Int. J. Mol. Sci.*, 23 (21), 12843, **2022**, (ultim si corespondent) <https://doi.org/10.3390/ijms232112843>
6. Ioan Valentin Matei, Irit Meivar-Levy, Daniela Lixandru, Simona Dima, Ioana Raluca Florea, Veronica Madalina Ilie, Radu Albulescu, Irinel Popescu, Sarah Ferber; The effect of liver donors' age, gender and metabolic state on the transdifferentiation efficiency to endocrine pancreas, *Regenerative Medicine*, 16(1):19-31, 2021; Factor de impact 2.598; DOI: 10.2217/rme-2020-0092; [link https://www.futuremedicine.com/doi/abs/10.2217/rme-2020-0092](https://www.futuremedicine.com/doi/abs/10.2217/rme-2020-0092)
7. Razvan Iacob, Vlad Herlea, Lorand Savu, Raluca Florea, Veronica Ilie George Terinte-Balcan, Mihaela Gherghiceanu, Mihaela Uta, Codruta Popa, Speranta Iacob Ioan Valentin Matei, Cerasela Jardan, Daniela Lixandru, Simona Dima, Irit Meivar-Levy, Sarah Ferber, Irinel Popescu „Phenotypic assessment of liver-derived cell cultures during in-vitro expansion” *Regenerative Medicine*, ;16(1):33-46, 2021; Factor impact 2.598; DOI: 10.2217/rme-2020-0093; [link https://www.futuremedicine.com/doi/abs/10.2217/rme-2020-0093](https://www.futuremedicine.com/doi/abs/10.2217/rme-2020-0093)
8. Radu Albulescu, Simona Olimpia Dima, Ioana Raluca Florea, Daniela Lixandru, Andreea Madalina Serban, Veronica Madalina Aspritoiu, Cristiana Tanase, Irinel Popescu, Sarah Ferber; „COVID-19 and diabetes mellitus: Unraveling the hypotheses that worsen the prognosis” *Experimental and Therapeutic Medicine*” (Spandidos Publications), 20: 194; Factor de impact 1.78 5; DOI: 10.3892/etm.2020.9324; link: <https://www.spandidos-publications.com/10.3892/etm.2020.9324>
9. Ariana Picu, Laura Petcu, Diana Simona ,Stefan , Grat,iela Grădis,teanu Pîrcălăbioru, Manuela Mitu, Daiana Bajko , Daniela Lixandru , Cristian Guja, Octavian Savu, Anca Pantea Stoian , Alina Constantin , Bogdan Smeu , Cătălin Copăescu , Mariana Carmen Chifiriuc, Elena Ionica and Constantin Ionescu-Tîrgovi,ste Evolution of Inflammatory and Oxidative Stress Markers in Romanian Obese Male Patients with Type 2 Diabetes Mellitus after Laparoscopic Sleeve Gastrectomy: One Year Follow-Up Metabolites 2020, 10, 308; doi:10.3390/metabo10080308

10. Ionescu AM, Ilie MA, Chitu V, Razvan A, **Lixandru D**, Tanase C, Boda D, Caruntu C, Zurac S. In vivo Diagnosis of Primary Cutaneous Amyloidosis -the Role of Reflectance Confocal Microscopy. *Diagnostics* (Basel). 2019 Jun 27;9(3). doi: 10.3390/diagnostics9030066. <https://www.mdpi.com/2075-4418/9/3/66>
11. Ilie MA, Caruntu C, Lupu M, **Lixandru D**, Georgescu SR, Bastian A, Constantin C, Neagu M, Zurac SA, Boda D. **Current and future applications of confocal laser scanning microscopy imaging in skin oncology.** *Oncology Letters* 2019:1-10. doi: 10.3892/ol.2019.10066. IF=1.554 <https://www.spandidos-publications.com/10.3892/ol.2019.10066>
12. Liviu Iosif, **Daniela Lixandru**, Laura Gaman, Mihaela Ilie, Bogdan Smeu, Diana Simona Ștefan, Laura Petcu, Ariana Picu, Alina Constantin, Constantin Ionescu-Tîrgoviste, Cristian Guja, Catalin Copaescu, Irina Stoian **Oxidative stress profile and type 2 diabetes remission at 6 months after sleeve gastrectomy versus conservatory treatment,** *Farmacia* vol 67 (1), 99-105; 2019 <http://www.revistafarmacia.ro/201901/issue12019art13.html> IF 1.507
13. **D. Lixandru**, P. Alexandru, A. Mihai, A. Roșca, C. Ionescu-Tîrgoviște, L.I. Brașoveanu & B. Manuel-y-Keenoy **Decreased paraoxonase 2 enzymatic activity in monocyte/macrophages cells. A comparative in vivo and in vitro study for diabetes,** *Free Radical Research*, 2017, <https://doi.org/10.1080/10715762.2017.1344983>, IF 3.188
14. Stefan DS, Mihai A, Bajko D, **Lixandru D**, Petcu L, Picu A, Smeu B, Copăescu C, Ionescu-Tîrgoviște C, Guja C **Comparison of Sleeve Gastrectomy and Conservatory Treatment Effect on Biochemical and Hormonal Profile of Obese Type 2 Diabetes Subjects: CREDOR Randomized Controlled Study Results** *Rev Chem* (Bucharest) 68, 7, 2017 http://www.revistadechimie.ro/article_eng.asp?ID=5730 IF 1.412
15. Mihaela Adriana Ghita, Constantin Caruntu, **Daniela Lixandru**, Adriana Pitea, Alexandra Batani, Daniel Boda **The Quest for Novel Biomarkers in Early Diagnosis of Diabetic Neuropathy,** *Current Proteomics*, 2017, 14, 1-14, DOI:10.2174/1570164614666161228122259, IF 0.59
16. Ariana Picu, Laura Petcu, Simona Ștefan, Manuela Mitu, **Daniela Lixandru**, Constantin Ionescu-Tîrgoviste, Gratiela Grădîsteanu Pîrcălăbîoru, Felicia Ciulu-Costinescu, Maria-Viorica Bubulica, Mariana Carmen Chifiriuc, **Markers of Oxidative Stress and Antioxidant Defense in Romanian Patients with Type 2 Diabetes Mellitus and Obesity** *Molecules* 2017, 22, 714; doi:10.3390/molecules22050714, IF 2.861
17. **Daniela Lixandru**, Liliana Moraru, Petruta Alexandru, Irina Stoian, Adelina Rosca, Mihaela Ghita, Constantin Caruntu, Ana Caruntu, Constantin Ionescu-Tîrgoviste, Cristian Guja **Implications of antioxidant enzyme paraoxonase 2 in insulin synthesis and secretion** *REV.CHIM.* (Bucharest), 67, No. 11, 2016 IF 1.232
18. Rodica Doros, **Daniela Lixandru**, Laura Petcu, Janeta Tudosoiu, Manuela Mitu, Ariana Picu, Constantin Ionescu-Tîrgoviste, Cristian Guja **Resting Metabolic rate in type 2 diabetes – Accuracy of predictive equations** *Rom Biotech Letters Vol. 22, No. 6, 2016*, IF 0.381
19. Andrada Mihai, **Daniela Lixandru**, Petruța Alexandru, Irina Stoian, Simona Carniciu, Manuela Mitu, Cristian Guja, Constantin Ionescu-Tîrgoviște **Negative association between paraoxonase 2, anthropometric markers and metabolic syndrome** *Open Life Sci.* 10, 365-371, 2015 IF0.710
20. **Daniela Lixandru**, Elena Violeta Băcanu, Bogdana Vîrgolici, Horia Vîrgolici, Alexandru Petruța, Marius Emil Băcanu, Paul Gagniuc, Constantin Ionescu-Tîrgoviște, Cristian Serafinceanu **Changes in the serum proinflammatory cytokines in patients with elevated HOMA-IR and type 2 diabetes mellitus** *Farmacia*, vol 63 (1), pp. 132 -139, 2015 IF 1.251
21. E.V. Băcanu, **D. Lixandru**, C. Serafinceanu **The association between adipokines, insulin resistance markers and microalbuminuria in obese type 2 diabetic patients** *Acta Endocrinologica* (Buc), vol. X, no. 2, p. 228-237, 2014 IF 0.45
22. Gilca M, **Lixandru D**, Gaman L, Vîrgolici B, Atanasiu V, Stoian I. **Erythrocyte membrane stability to hydrogen peroxide is decreased in Alzheimer's disease.** *Alzheimer Dis. Assoc. Disord.*, Oct-Dec;28 (4):358-63.doi: 10.1097/WAD.000000000000026. 2014 IF 2.728
23. Capusa C, Stoian I, Rus E, **Lixandru D**, Barbulescu C, Mircescu G: - **Does Dialysis Modality Influence the Oxidative Stress of Uremic Patients.** *Kidney Blood Press Res*; 35: pp 220-225; 2012 (DOI: 10.1159/000331560) IF 1.464
24. Elena Violeta Bacanu, **Daniela Lixandru**, Irina Stoian, Bogdana Virgolici, Maria Mohora, Niculina Mitrea, Constantin Ionescu-Tîrgoviste – **Correlations between obesity antropometric markers, adipocytokines and monocytes oxidative stress status in type 2 diabetic patiens-** *Farmacia*, vol 60 (1), pp -21-32, 2012, IF 1.251
25. **Daniela Lixandru**, Maria Mohora, Anca Coman, Irina Stoian, Carolien Van Gils, Petra Aerts, Begona Manuel-y-Keenoy – **Diet and paraoxonase 1 enzymatic activity in diabetic food patients from Romania and Belgium: favourable association of high flavonoid dietary intakes and arylesterase activity,** *Annals of Nutrition and Metabolism*, vol 56, no 4, pp 294-301, 2010 IF 2.461

26. Sfrent-Cornateanu R, Mihai C, Stoian I, **Lixandru D**, Bara C, Moldoveanu E. – **Antioxidant defence capacity in scleroderma patients** - Clin Chem Lab Med.; 46(6): pp 836-41. PMID: 18601607; **2008** IF 2.150

BOOKS and BOOK CHAPTERS

1. „*COVID-19 and diabetes mellitus: deciphering hypotheses worsening prognosis*” (capitol de carte)
Autori: Radu Albulescu, Simona Olimpia Dima, Ioana Raluca Florea, **Daniela Lixandru**, Andreea Madalina Serban, Veronica Madalina Aspritoiu, Cristiana Tanase, Irinel Popescu, Sarah Ferber; 2021_BP_9973D; *New Frontiers in Medicine and Medical Research Vol. 5*, 6 August 2021 , Page 92-108; link <https://doi.org/10.9734/bpi/nfmmr/v5/9973D>
2. *Biochimie Medicală-Teste Grilă* Coordonatori: Valeriu Atanasiu, Maria Mohora; Autori: Beatrice Carmen Dogaru, Carmen Duță, Marilena Gîlcă, Laura Gaman, **Daniela Lixandru**, Corina Muscurel, Irina Stoian, Bogdana Vîrgolici. Editura Niculescu, București 2011 (reeditata 2012-2018)
3. *Biochimie medicală - Ghid pentru lucrările practice*. Coordonatori: Valeriu Atanasiu, Maria Mohora; Autori: Adrian Mircea Căplănuși, Beatrice Carmen Dogaru, Cristian Dinu Dogaru, Carmen Duță, Marilena Gîlcă, Annamaria Katona, **Daniela Lixandru**, Bogdan Manolescu, Corina Muscurel, Liliana Pîslaru, Irina Stoian, Bogdana Vîrgolici. Editura Niculescu, București, 2006 (reeditată 2007-2021)
4. *Biochimie medicală- Lucrări practice pentru FMAM* Busu C., Gaman L., **Lixandru D.**, Muscurel C., Panait E. Coordonatori Atanasiu V. și Stoian I. : Editura Universitară „Carol Davila”, București, 2010 (ISBN: 978-973-708-325-8)
5. *Biochimie medicală – Teste grilă pentru facultatea de moașe*. Coordonatori: Valeriu Atanasiu, Irina Stoian; Autori: Laura Gaman, Bogdan Manolescu, **Daniela Lixandru**, Carmina Bușu, Elena Panait; Editura Universitară Carol Davila, București, 2008 (ISBN: 978-973-708-321-0).
6. COLECȚIA ZILELE RAINER “Antropologie și Mediu” - C. Cristescu, **D. Lixandru**, J. Tudosoiu, E. Rusu, M. Ghinescu, V. Cristescu, C. Ionescu-Tîrgoviște Relația dintre rata metabolică de rapaus și markerii antropometrici la pacienții cu diabet zaharat de tip 2 nou diagnosticat, Antropologie și Mediu, vol 5, Editura Niculescu, p152-159, 2014 (ISBN PDF: 978-973-748-859-6) (capitol de carte)

PATENTS:

1. „*Utilizarea unui biorector rotativ pentru stimularea procesului de maturare a celulelor pancreatice obținute prin transdiferențierea celulelor hepatice*” - Publicare aplicație **RO-BOPI 10/2021, din 29.10.2021** Autori: Ferber Sarah, Meivar-Levy Irit, Dima Simona Olimpia, Serban Andreea Madalina, **Lixandru Daniela** Mioara, Florea Ioana Raluca, Aspritoiu Veronica Madalina, Matei Ioan Valentin, Albulescu Radu, Tanase Cristiana, Popescu Irinel
2. „*Metodă de inducere a vascularizației subcutanate prin utilizarea celulelor hepatice umane primare producătoare de VEGF*” Aplicație înregistrată la OSIM Nr. **A/00161/2022/28.03.2022**, publicare în BOPI in anul 2022 Autori: Dima Simona Olimpia, Serban Andreea Madalina, **Lixandru Daniela Mioara**, Coman Cristin, Florea Ioana Raluca, Aspritoiu Veronica Madalina, Negoita Valentina, Popescu Irinel
- 3 “*Metodă de chemosenzitivitate a răspunsului la tratamentul cu agenți chimioterapeutici – platformă pentru tratamentul personalizat al cancerului ovarian*” Publicare aplicație **RO-BOPI 3/2022, din 30.03.2022** Autori: Constantinescu Diana Roxana, **Lixandru Daniela Mioara**, Dima Simona Olimpia, Popescu Irinel, Sorop Andrei, Filippi Alexandru, Cretoiu Dragos, Suciu Nicolae