

PERSONAL INFORMATION

Mircea LEABU



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🌐 www.mircea-leabu.ro

💬 Replace with type of IM service Replace with messaging account(s)

Sex Male | Date of birth 01/04/1953 | Nationality Romanian

POSITION Working in Academia

PERSONAL STATEMENT *Asking questions, seeking for answers and solutions!*

WORK EXPERIENCE

- 2025, January 3rd – present **Institute for Research and Development in Genomics (<https://genomica.gov.ro/>)**
 ▪ Development of the System for internal control of management
- 2023 – present **Member of Advisory Board**
 "Danubius" International University, Galați
 ▪ Counselling in biochemistry and cell biology graduate program
- 2005 – 2023, March 31st **Deputy Director, Senior Researcher (former positions: Scientific Secretary, Head of Cell Biology Laboratory)**
 "Victor Babeș" National Institute of Pathology, 99-101, Splaiul Independentei, sector 5, 050096 Bucharest, Romania, www.ivb.ro
 ▪ Management of scientific activity in the Institute; Management of research projects and research activity in the lab. Fields: cell motility, cell signalling by integrins, cytoskeletal organization/reorganization, cell invasion and metastasis, antitumor drugs development.
Business or sector: Biomedical research
- 1991 – 2022, May **Assistant Professor, Associate Professor (starting with 2003) – part time job (starting with April 1st, 2018)**
 "Carol Davila" University of Medicine and Pharmacy, 37, Dionisie Lupu Street, sector 1, 020022 Bucharest, Romania, <https://umfcd.ro/>
 ▪ Courses and tutorials in cell biology. Tutorials in histology. Research in cardiac pathology (myocardial ischaemia-reperfusion injury). Management of research projects.
Business or sector: Teaching, Biomedical research
- 2007 – present **Research associate member, Member of Doctoral School Board (2013-2016), Faculty of Philosophy, Member of Supervising Commission for PhD Students in bioethics**
 University of Bucharest, Faculty of Philosophy, Research Center for Applied Ethics, 204, Splaiul Independentei, 060024 Bucharest, Romania, www.ccea.ro/
 ▪ Leader of the group for debates in bioethics; co-supervisor for PhD students in applied ethics with emphasis on bioethics
Business or sector: Research in applied ethics (with emphasis on bioethics, research ethics, and publication ethics)
- 2000 – 2005 **Postdoctoral fellowship, Visiting scientist (starting with 2003)**
 Robarts Research Institute, University of Western Ontario, P.O. Box 5015 100 Perth Drive London, Ontario Canada N6A 5K8 (Bosco Chan's Laboratory), www.robarts.ca/
 ▪ Research activity. Fields: mechanisms for cell morphology and motility controlling by integrins.
Business or sector: Biomedical research
- 1980 – 1991 **Chemist, Researcher in cell biology**
 Institute of Cellular Biology and Pathology „Nicolae Simionescu”, 8, B.P. Hașdeu Str., sector 5, 050568 Bucharest, Romania, www.icbp.ro/
 ▪ Research in cell biology of cardiovascular system, with emphasis on endothelial cell: electron microscopy, atherogenesis experimental modelling, chromatography (TLC, HPLC)
Business or sector: Biomedical research

EDUCATION AND TRAINING

- 2010 – 2013 **Postdoctoral studies**
 „Carol Davila” University of Medicine and Pharmacy, 37, Dionisie Lupu Street, sector 1, 020022 Bucharest, Romania, <https://umfcd.ro/>
 - Postdoctoral studies on research ethics in translational medicine and transplantation
- 1992 – 1998 **PhD**
 „Carol Davila” University of Medicine and Pharmacy, 37, Dionisie Lupu Street, sector 1, 020022 Bucharest, Romania, <https://umfcd.ro/>
 - Doctoral studies and research in myocardial pathology (ischemia-reperfusion injury)
- 1972 – 1976 **MS in Chemistry [Averaged mark: 9.93 (Head of the class @ national level)]**
Pedagogical Certificate (the highest mark obtained: 10)
 „Gheorghe Asachi” Technical University of Iassy, Romania
 - General chemistry (inorganic, organic, physical); graduating thesis in quantum chemistry applied to the mechanism of vision (perturbational calculation of retinal-rhodopsin interaction)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B2

Communication skills Ability for good communication with various audiences and people.

- good communication skills gained through my experience as teacher, scientist and speaker at scientific meetings in both cell biology and professional ethics
- Effective interrelationships with experts in other fields (e.g. moral philosophers, ethicists, engineers), ability to attract students in research activity

Organisational / managerial skills Below are listed my main activities proving organisational/managerial skills:

- Leader of Cell Biology Laboratory since 2005, 10 employees;
- Setting up a new research lab in the Department of Cellular and Molecular Medicine at „Carol Davila” University of Medicine and Pharmacy (1991 – 1992);
- Setting up of the Cell Biology Lab at “Victor Babeş” National Institute of Pathology in a new, upgraded form, by using equipment purchased with money attracted in research grants (2005 – 2007);
- Setting up the VIDEOCELL Unit of Cell Biology Lab at “Victor Babeş” National Institute of Pathology (equipment purchased with money attracted by a grant, Capacities Program, 2007 – 2009);
- Organizer of 3 courses in cell biology at Transilvania University, Braşov (1991 – 1992), for students in pharmacy at „Carol Davila” University of Medicine and Pharmacy (starting with 2004, optional course), for English teaching group at „Carol Davila” University of Medicine and Pharmacy (starting with 2005);
- Scientific meeting organizer (President of the Organizing Committee) at “Victor Babeş” National Institute of Pathology (2009, 2010, 2015);
- Research project management: Director for 9 research projects, Partner Responsible for 2 research projects

Job-related skills Areas of expertise are classified below:

Scientific fields

Biomedicine

- Blood vessels: cell biology, ultrastructural cytochemistry, biochemistry
- Myocardial ischemia and reperfusion: ultrastructural and biochemical approach
- Molecular tracers: preparation, chemical and biological characterization

PERSONAL SKILLS

(continued)

**Job-related skills
(continued)**

- Proteins and glycoproteins: isolation, purification, characterization Membrane cell biology (molecular organization, membrane transport, cell signalling)
- Cytoskeleton and its dynamics
- Cell movement: integrin involvement in haptotaxis, chemotaxis and chemokinesis, signalling pathways in cell migration
- Drug effects on cultured cells

Professional ethics

- Biomedical research ethics
- Ethics of publishing
- Bioethics

Applied skills

Technical expertise in biomedical research

- Chromatography (classical & high-performance liquid chromatography, thin layer chromatography)
- Electrophoresis, electro transfer of protein on nitrocellulose or PVDF membrane, lectin-, ligand-, immuno-blotting, enhanced chemiluminescence
- Chemical modification of proteins, protein radiolabelling
- Cell fractionation (homogenization, organelle isolation by centrifugation)
- Enzymatic analysis
- Cell culture, cell transfection
- Spectrophotometrical techniques and methods for cell activity investigation
- Experimental models for the investigation of environmental stress effects on cell behaviour and survival
- Light microscopy (phase contrast, fluorescence microscopy, confocal microscopy)
- Time-lapse videomicroscopy
- Time-lapse investigation of cell behaviour by cell layer impedance measurements
- Immunofluorescence
- Electron microscopy
- Lectin ultrastructural cytochemistry

Applied expertise in bioethics and professional ethics

- Ethical theories and concepts: principlism, utilitarianism
- Methods of ethical decision-making
- Applied ethics in translational medicine
- Design for code of ethics in life sciences
- Publication ethics (integrity in publication, authorships)

Digital competence

SELF-ASSESSMENT		
Information processing	Information processing	Information processing
NA	NA	NA

Replace with name of ICT-certificate(s)

Ability to use computers are mentioned below:

- Windows (software available for computer use in teaching and research)
- Office pack (for writing texts, prepare presentations, data calculation and statistics)
- Image processing (Adobe Photoshop, NIS-elements)
- Internet (navigation, E-mail, searching scientific literature, etc.)

Other skills

Replace with other relevant skills not already mentioned. Specify in what context they were acquired.

N.A.

Driving licence

B

ADDITIONAL INFORMATION

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Papers and scientific communications (as numbers; details under Annexes):

Papers in international journals:

29 (25 appearing in PUBMED) – in biomedical field

9 – in bioethics and research ethics

 Abstracts in international journals: **12**

Papers in Romanian journals:

2 – in biomedical field

5 – in bioethics and research ethics

 Abstracts in Romanian journals: **37**

International scientific communications:

21 (8 oral communications) – in biomedical field

19 (oral communications) – in bioethics and research ethics

National scientific communications:

76 (20 oral communication) – in biomedical field

11 (oral communications) – in bioethics and research ethics

Books / Chapters: 5 (as first author) / **6** (as single author); **1** book (as editor)

Authorship books: 3
Citations:

- according to Clarivate Web of Science (All Databases): **721** (without self-citations: **706**)
- according to Clarivate Web of Science (Core Collection): **659** (without self-citations: **645**)
- according to Scopus: **677** (without self-citations: **664**)
- according to ResearchGate: **824**
- according to Google Academic: **1066**
- according to Harzing's Publish or Perish: **1072**

Hirsch Index (h-index):

- according to Clarivate Web of Science (Core Collection): **13**; (All Databases): **14**
- according to Scopus: **13**
- according to ResearchGate: **15** (excluding self-citations: **15**)
- according to Google Academics: **15**
- according to Harzing's Publish or Perish: **15**

Awards:

- 2009 – Professor Bologna, National Award due to Romanian Student Associations investigation and classification
- 1974 – „Traian Lalescu” National Scientific Competition for Students, organic chemistry field (3rd position)

Memberships:

- Romanian Society for Cell Biology [affiliated to European Life Scientist Organization (ELSO) and International Federation for Cell Biology], 1984-present (founding member)
- Romanian Society for Normal and Pathological Morphology, 1991-present
- Canadian Society of Immunology, 2002-2004
- Romanian Society for Biochemistry and Molecular Biology (affiliated to FEBS and IUBMB), 2008-present
- Romanian Society of Medical Engineering and Biological Technology (affiliated to IFMBE), 2011-present
- Romanian Society of Bioethics, 2011-present
- Romanian Society for Analytic Philosophy (affiliated to European Society for Analytic Philosophy), 2011-present
- Romanian Society of Immunology, 2017

Other scientific commitments:

- **Guest Editor** at *Discoveries*, for the Special Issue titled „Cell Secretion and Membrane Fusion” (co-Guest Editor: **Garth L. Nicolson**), 2014.
- **Guest Editor** at *Ethics in Biology, Engineering and Medicine*, for the Special Section titled „Life's Complexity, Complexity of Ethics”, 2015.

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Current / before retirement positions:

Deputy Director, Principal Investigator, „Victor Babeş” National Institute of Pathology, Bucharest

Associate Professor (retired & collaborator), Department of Cellular and Molecular Medicine, “Carol Davila” University of Medicine & Pharmacy, Bucharest

Associate Member, Research Center for Applied Ethics, University of Bucharest

Stages in the last positions before retirement:

18 years, „Victor Babeş” National Institute of Pathology, Bucharest (retired, April 1st, 2023)

27 + 3 years, “Carol Davila” University of Medicine & Pharmacy, Bucharest (retired & part time, April 2018)

16 years, Research Center for Applied Ethics, University of Bucharest

Other positions:

President of the Organizing Committee for *Annual Scientific Meeting* and the *National Pathology Symposium* at “Victor Babeş” National Institute of Pathology (2009 – present)

Member of Bioethics Committee of the *International Federation of Medical and Biological Engineering* (2013-2015; 2015-2018)

Member of the Editorial Board at “*Ethics in Biology, Engineering and Medicine: An International Journal*”

Senior Editor at Discoveries Journals (“*Discoveries*” and “*Discoveries Reports*”)

President, Commission 2 – *Life Sciences*, National Council of Scientific Research Ethics, National Authority for Scientific Research, Bucharest (2007-2011)

Executive Assistant Editor of the “*Journal of Cellular and Molecular Medicine*” (2006-2015)

Peer Reviewer: “*Journal of Cellular and Molecular Medicine*”, “*Langenbecks Archive of Surgery*”, “*European Journal of Medicinal Chemistry*”, “*Molecules*”, “*Journal of Visualized Experiments*”, “*International Journal of Molecular Sciences*”, “*Romanian Journal of Biochemistry*”, “*Revista Română de Bioetică*”, “*Discoveries*”, “*Anti-Cancer Agents in Medicinal Chemistry*”, “*Biochemica et Biophysica Acta – Biomembranes*”, “*Molecular and Clinical Oncology*”, “*Philosophy Study*”, “*Cells*”

Research grant international competitions peer reviewer: 2011 open grant competition of the Government of the Russian Federation

Key positions at scientific meetings:

- **Chair**, the session “**Translational Oncology**” at *The 6th Symposium on Translational Personalized Oncology to Fight against Cancer*, Bucharest, Romania, September 22-24, 2022.
- **Plenary Lecture** at the International Conference “**Ethics and Values in Education, Research and Innovation**”, Suceava, Romania, 19-29 October, 2018.
- **Chair**, the session “**Cellular and Molecular Pathology (Part I)**”, at *The 9th National Congress with International Participation and the 35th Annual Scientific Session of the Romanian Society of Cell Biology*, Iași, Romania, 7-11 June, 2017.
- **Plenary Lecture** at *The 8th International Conference “Theoretical and Applied Ethics: Traditions and Prospects”: ARISTOTLE’S LEGACY AND CONTEMPORARY ETHICS*, St. Petersburg, Russia, 17-19 November, 2016.
- **Invited Speaker** at *The 5th International Conference on Advancements of Medicine and Health Care through Technology*, Cluj-Napoca, 12-15 October, 2016.
- **Chair**, the session “**Biosensors. Nanotechnologies. Pharmacokinetics**”, at *The 5th International Conference on Advancements of Medicine and Health Care through Technology*, Cluj-Napoca, 12-15 October, 2016.
- **Chair**, the symposium “**How to Use the Methods of Basic Research to Demonstrate an Hypothesis**”, at *The Congress of the University of Medicine and Pharmacy “Carol Davila”, 4th edition*, Bucharest, 2-4 June, 2016.
- **Invited Speaker** at *7th LUMEN International Conference: “MEPDEV 2015”*, Târgoviște, Romania, 12-14 November, 2015.
- **Invited Speaker** at *International Workshop on Research Ethics: “Teaching Research Ethics”*, Sapporo, 7 November, 2015.
- **Invited Speaker** at the Symposium titled “*Frontiers in Nano Cell Biology*”, Târgu Mureș, Romania, 5 May, 2015

ADDITIONAL INFORMATION

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Key positions at scientific meetings (continued):

- **Organizer and Chair**, the session titled *BIOEthics II*, at the “8th International Conference on Ethics in Biology, Engineering and Medicine”, Brooklyn, New York, 24-26 April, 2015
- **Invited Speaker** at “The 4th International Conference on Advancements of Medicine and Health Care through Technology”, Cluj-Napoca, Romania, 5 – 7 June, 2014
- **Program Committee Member**, at “The 4th International Conference on Advancements of Medicine and Health Care through Technology”, Cluj-Napoca, Romania, 5 – 7 June, 2014
- **Invited Speaker** at the “7th International Conference on Ethical Issues in Biomedical Engineering”, Brooklyn, New York, 20-21 April, 2013
- **Invited Speaker** at the “2012 World Congress on Medical Physics and Biomedical Engineering”, Beijing, 26-31 May, 2012
- **Invited Speaker** at “2^{ème} Colloque Franco-Roumain de Chimie Médicinale”, Iași, Romania, 3-5 October, 2012
- **Chair**, the symposium “*Medicine and Pharmaceuticals II*” at “Bucharest Conference in Applied Ethics”, Bucharest, 28-29 October 2011
- **Program Committee Member** at “The 5th European Conference of the International Federation for Medical and Biological Engineering”, Budapest, 14-18 September, 2011
- **Organizer** of special session “*Ethical Challenges in Medical and Biological Engineering*” at “The 5th European Conference of the International Federation for Medical and Biological Engineering”, Budapest, 14-18 September, 2011
- **Chair**, the workshop “*Molecular Bioengineering*” at “The 3rd International Conference on Advancements of Medicine and Health Care through Technology”, Cluj-Napoca, Romania, August 29 – September 2, 2011
- **Program Committee Member**, at “The 3rd International Conference on Advancements of Medicine and Health Care through Technology”, Cluj-Napoca, Romania, August 29 – September 2, 2011
- **Chair**, the round table “*Experimental modelling in cell biology*” at „The 3rd International Congress and the 29th Annual Session of RSCB”, Arad (Romania) – Szeged (Hungary), June 8 – 12, 2011
- **Keynote Speaker** at „2nd International Conference on Ethics and Professional Culture”, Cluj-Napoca, Romania, 15-16 April, 2011
- **Chair**, the round table “*Ethical review of research projects in the European context*” at “The 26th Annual Scientific Meeting of the Romanian Society for Cell Biology” Cluj-Napoca, Romania, June 12-15, 2008
- **Chair**, the symposium „*Extracellular matrix, cell adhesion and signalling*” at „The 2nd International Congress of Cellular and Molecular Biology”, Iași, Romania, June 7 – 10, 2006

ANNEXES

- Annex 1: List of publications in cellular and molecular biology and medicine
- Annex 2: Papers in the field of research ethics and bioethics
- Annex 3: Authorship books
- Annex 4: Letter of gratitude (Deputy Minister of education and science of the Russian Federation)

 January 31st, 2025

Annex 1. List of publications in cellular and molecular biology and medicine

1. **Leabu M**, Sasaki K. (2020) The concept of identity: from philosophy to cell biology and back. *J Cell Ident.* **1**(1), 17-29. DOI: 10:47570/joci.2020.002
2. Niculițe CM, Nechifor MT, Urs AO, Olariu L, Ceafalan LC, **Leabu M.** (2018) Keratinocyte motility is affected by UVA radiation—A comparison between normal and dysplastic cells. *Int J Mol Sci.* **19**, 1700; DOI: 10.3390/ijms19061700.
3. Niculițe CM, Urs AO, Fertig E, Florescu C, Gherghiceanu M, **Leabu M.** (2017) Cellular nanostructures and their investigation. History and perspectives. *IFMBE Proceedings.* **59**, 337-340. DOI: 10.1007/978-3-319-52875-5_70
4. Segneanu AE, Grozescu I, Cziple F, Berki D, Damian D, Niculite CM, Florea A, **Leabu M.** (2015) Helleborus purpurascens-Amino Acid and Peptide Analysis Linked to the Chemical and Antiproliferative Properties of the Extracted Compounds. *Molecules.* **20**(12): 22170-22187. DOI: 10.3390/molecules201219819.
5. Bucur O, Almasan A, Zubarev R, Friedman M, Nicolson GL, Sumazin P, **Leabu M**, Nikolajczyk BS, Avram D, Kunej T, Calin GA, Godwin AK, Adami HO, Zaphiropoulos PG, Richardson DR, Schmitt-Ulms G, Westerblad H, Keniry M, Grau GE, Carbonetto S, Stan RV, Popa-Wagner A, Takhar K, Baron BW, Galardy PJ, Yang F, Data D, Fadare O, Yeo KJ, Gabreanu GR, Andrei S, Soare GR, Nelson MA, Liehn EA. (2015) An updated h-index measures both the primary and total scientific output of a researcher. *Discoveries* (Craiova). 2015 Jul-Sep; **3**(3). pii: e50. DOI: 10.15190/d.2015.42
6. Niculite CM, Regalia TM, Gherghiceanu M, Huica R, Surcel M, Ursaciuc C, **Leabu M**, Popescu LM. (2015) Dynamics of telopodes (telocyte prolongations) in cell culture depends on extracellular matrix protein. *Mol Cell Biochem.* **398**(1-2): 157-164. DOI: 10.1007/s11010-014-2215-z. Epub 2014 Sep 21.
7. **Leabu M**, Nicolson GL. (2014) Cell secretion and membrane fusion: highly significant phenomena in the life of a cell. *Discoveries.* 2014 Jul-Sep; **2**(3): e30. DOI: 10.15190/d.2014.22
8. **Leabu M**, Niculite CM. (2014) Porosome: a membrane microdomain acting as the universal secretory portal in exocytosis. *Discoveries.* 2014 Jul-Sep; **2**(3): e29. DOI: 10.15190/d.2014.21
9. **Leabu M.** (2013) The still valid fluid mosaic model for molecular organization of biomembranes: accumulating data confirm it. *Discoveries.* **1**(1), e7. DOI: 10.15190/d.2013.7
10. Nechifor MT, Niculițe CM, Urs AO, Regalia T, Mocanu M, Popescu A, Manda G, Dinu D, **Leabu M.** (2012) UVA Irradiation of Dysplastic Keratinocytes: Oxidative Damage versus Antioxidant Defense. *Int J Mol Sci.* **13**(12), 16718-16736; DOI: 10.3390/ijms131216718.
11. Rosu T, Pahontu E, Ilies DC, Georgescu R, Mocanu M, **Leabu M**, Shova S, Gulea A. (2012) Synthesis and characterization of some new complexes of Cu(II), Ni(II) and V(IV) with Schiff base derived from indole-3-carboxaldehyde. Biological activity on prokaryotes and eukaryotes. *Eur J Med Chem.* **53**, 380-389.
12. Liehn EA, Tuchscheerer N, Kanzler I, Drechsler M, Fraemohs L, Schuh A, Koenen RR, Zander S, Soehnlein O, Hristov M, Grigorescu G, Urs AO, **Leabu M**, Bucur I, Merx MW, Zernecke A, Ehling J, Gremse F, Lammers T, Kiessling F, Bernhagen J, Schober A, Weber C. (2011) Double-edged role of the CXCL12/CXCR4 axis in experimental myocardial infarction. *J Am Coll Cardiol.* **58**(23), 2415-2423.
13. Niculite C, **Leabu M.** (2011) Timelapse monitoring of cell behavior as a tool in tissue engineering. *IFMBE Proceedings.* **36**, 352-357. DOI: 10.1007/978-3-642-22586-4_74
14. Rosu T, Pahontu E, Pasculescu S, Georgescu R, Stanica N, Curaj A, Popescu A, **Leabu M.** (2010) Synthesis and characterization of novel Cu(II) and Pd(II) complexes with 2-hydroxy-8-R-tricyclo[7.3.1.0.2⁷]tridecane-13-one thiosemicarbazone. Study on biological activity. *Eur J Med Chem.* **45**, 1627-1634.
15. Tanase CP, Dima S, Mihai M, Raducan E, Nicolescu MI, Albulescu L, Voiculescu B, Dumitrascu T, Cruceru LM, **Leabu M**, Popescu I, Hinescu ME. (2009) Caveolin-1 overexpression correlates with tumour progression markers in pancreatic ductal adenocarcinoma. *J Mol Histol.* **40**, 23-29.
16. Hadar T, Shvero J, Yaniv E, Shvili I, **Leabu M**, Koren R. (2008) Human topoisomerase II-alpha is highly expressed in sinonasal inverted papilloma, but not in inflammatory polyp. *J Cell Mol Med.* **12**, 1551-1558.
17. Min KW, **Leabu M.** (2006) Interstitial cells of Cajal (ICC) and gastrointestinal stromal tumor (GIST): facts, speculations, and myths. *J Cell Mol Med.* **10**, 995-1013.
18. **Leabu M.** (2006) Membrane fusion in cells: molecular machinery and mechanisms. *J Cell Mol Med.* **10**, 423-427.
19. Rath - Wolfson L, Rosenblat Y, Halpern M, Herbert M, Hammel I, Gal R, **Leabu M**, Koren R. (2006) A new scoring system using multiple immunohistochemical markers for diagnosis of uterine smooth muscle tumors. *J Cell Mol Med.* **10**, 197-205.

20. Hutter JL, Chen J, Wan WK, Uniyal S, **Leabu M**, Chan BM. (2005) Atomic force microscopy investigation of the dependence of cellular elastic moduli on glutaraldehyde fixation. *J Microsc.* **219**, 61-68.
21. Popescu LM, Hinescu ME, Radu E, Ciontea SM, Cretoi D, **Leabu M**, Ardeleanu C (2005) CD117/c-kit positive interstitial (Cajal-like) cells in human pancreas. *J Cell Mol Med.* **9**, 738-739.
22. Miura K, Uniyal S, **Leabu M**, Oravec T, Chakrabarti S, Morris VL, Chan BM. (2005) Chemokine receptor CXCR4- β 1 integrin axis mediates tumorigenesis of osteosarcoma HOS cells. *Biochem Cell Biol.* **83**, 36-48.
23. **Leabu M**, Uniyal S, Xie J, Xu YQ, Vladau C, Morris VL, Chan BM. (2005) Integrin α 2 β 1 modulates EGF stimulation of Rho GTPase-dependent morphological changes in adherent human rhabdomyosarcoma RD cells. *J Cell Physiol.* **202**, 754-66.
24. Luong JHT, Xiao C, Lachance B, **Leabu M**, Li X, Uniyal S, Chan BMC. (2004) Extended applications of electric cell-substrate impedance sensing for assessment of the structure–function of α 2 β 1 integrin. *Analytica Chimica Acta* **501**, 61–69.
25. **Leabu M**, Hinescu ME, Uniyal S, Chan BMC. (2003) Cell death in cell culture frame by frame. Spontaneous cell demise of a 3T3 fibroblast. *J Cell Mol Med.* **7**, 192-193.
26. **Leabu MV**, Bucur EA. (2000) Peroxidatic activity in heart effluent: a biochemical parameter for the assessment of experimental ischemia-reperfusion injury. *J Cell Mol Med.* **4**, 176-182.
27. Popescu LM, Musat S, Trifan OC, **Leabu M**, Tigaret CM, Popescu M, Popescu A, Hinescu ME, Moraru II, Das DK. (1994) K(+)-channel openers protect the myocardium against ischemia-reperfusion injury. *Ann N Y Acad Sci.* **723**, 398-400.
28. Ghinea N, **Leabu M**, Hasu M, Muresan V, Colceag J, Simionescu N. Prelesional events in atherogenesis. (1987) Changes induced by hypercholesterolemia in the cell surface chemistry of arterial endothelium and blood monocytes, in rabbit. *J Submicrosc Cytol Pathol.* **19**, 209-227.
29. **Leabu M**, Ghinea N, Muresan V, Colceag J, Hasu M, Simionescu N. (1987) Cell surface chemistry of arterial endothelium and blood monocytes in the normolipidemic rabbit. *J Submicrosc Cytol Pathol.* **19**, 193-208.

January 31st, 2025

Annex 2: Papers in the field of research ethics and bioethics

1. **Leabu M.** Socio-political context versus biological context in gender equality. In „*Medicii și biserica. Bioetica de frontieră: libertatea fireșcului și fireșcul mărturisirii*”, vol. XXII (coord. Mircea Gelu Buta). Cluj-Napoca: Renașterea; 2024, pp.195-210 (in Romanian) ISBN 978-606-607-466-7
2. **Leabu M.** Creation from nothing. Is it a convergence point between theology and science? In „*Medicii și biserica. Adevărul creștin în practica medicală*”, vol. XXI (coord. Mircea Gelu Buta). Cluj-Napoca: Renașterea; 2023, pp.543-556 (in Romanian) ISBN 978-606-607-434-6
3. **Leabu M.** Assisted Reproduction Technologies in the Viewfinder of Abrahamic Religions / Tehnologiile de reproducere asistată în vizorul religiilor avraamice. In „*Medicii și biserica. Terapii medicale și spirituale la începutul mileniului III: complementaritate, dialog, unitate*”, vol. XX (coord. Mircea Gelu Buta). Cluj-Napoca: Renașterea; 2022, pp.771-788 (in Romanian) ISBN 978-606-6073899
4. Ojovanu V, **Leabu M.** Cuvânt introductiv / Foreword. In „*Bioetica: Teorii, instrumente, utilitate*” / “*Bioethics: Theories, tools and utility*” (coord. Vitalie Ojovanu și Mircea Leabu). Chișinău: Centrul Editorial-poligrafic Print Caro; 2021, pp. 5-17 (in Romanian)
5. **Leabu M.** Repere istorice pentru bioetică și apariția principiismului / Historical landmarks for bioethics and the emergence of principlism. In „*Bioetica: Teorii, instrumente, utilitate*” / “*Bioethics: Theories, tools and utility*” (coord. Vitalie Ojovanu și Mircea Leabu). Chișinău: Centrul Editorial-poligrafic Print Caro; 2021, pp. 18-29 (in Romanian)
6. **Leabu M.** Maternitatea la vârstă înaintată, o provocare etică (Cum decizii personale creează vulnerabilități) / An ethical challenge: maternity at an advanced age (How personal decisions create vulnerabilities). In „*Bioetica: Teorii, instrumente, utilitate*” / “*Bioethics: Theories, tools and utility*” (coord. Vitalie Ojovanu și Mircea Leabu). Chișinău: Centrul Editorial-poligrafic Print Caro; 2021, pp. 178-203 (in Romanian)
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January 31st, 2025

Annex 3: Authorship books

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3. **Leabu M,** Nechifor MT. Biomembranele, unitate în diversitate / Biomembranes, a Unity in Diversity (in Romanian). Vol. I. București: Editura Medicală Amaltea; 2014. ISBN 978-973-162-129-6

January 31st, 2025

Annex 4. Letter of gratitude

**МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ
РОССИЙСКОЙ ФЕДЕРАЦИИ
(МИНОБРНАУКИ РОССИИ)**

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23 сентября 2011 г.

№ 211-983

Dear Dr. Leabu Mircea !

On behalf of the Ministry of education and science of the Russian Federation I would like to extend our gratitude for your generous input and professionalism in the assessment of the project proposals submitted in 2011 for the open grant competition of the Government of the Russian Federation designed to support scientific research projects implemented by leading scientists at Russian institutions of higher learning.

I express my deep appreciation for your participation in the event, which is so significant for the Russian education and science.

The Ministry of education and science of the Russian Federation is proud to recognize your utmost professionalism and meaningful contribution to the organising and conducting the grant competition in 2011 and hopes for the further fruitful cooperation.

Deputy Minister

S. V. Ivanets

Executed by N. Y. Panov
Telephone: +7(495) 629-80-96

Thank you letter to the experts - 11