




Rodica Lighezan

Place of birth: Arad, Romania

Nationality: Romanian

Gender: Female

CONTACT

 Eftimie Murgu Square no.1,
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(Work)

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europass

WORK EXPERIENCE

2014 – CURRENT Timisoara, Romania

Associate Professor "Victor Babes" University of Medicine and Pharmacy

Department Department of Parasitology

2002 – 2014 Timisoara, Romania

Senior Lecturer "Victor Babes" University of Medicine and Pharmacy

Department Department of Histology

1991 – 2002 Timisoara, Romania

Assistant Professor "Victor Babes" University of Medicine and Pharmacy

Department Department of Parasitology

2017 – CURRENT Timisoara, Romania

Director Regional Blood Establishment Timisoara

2007 – 2017 Timisoara, Romania

Head of the Clinical Laboratory MedLife Hyperclinica

1999 Timisoara, Romania

Senior Specialist Physician in Laboratory Medicine, Municipal Clinic

EDUCATION AND TRAINING

2001

PhD - Academic title of Doctor in the field of Medicine "Victor Babes" University of Medicine and Pharmacy Timisoara

1995 – 1999 Timisoara, Romania

Specialist Physician in Laboratory Medicine Municipal Clinic Emergency Timisoara

1989 – 1991 Timisoara, Romania

Medical Intern County Hospital Timisoara

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

Other language(s):

English

Listening C1

Spoken production C1

Reading C1

Spoken interaction C1

Writing C1

French

Listening B2
Spoken production A2
Reading B2
Spoken interaction A2
Writing A2

German

Listening B1
Spoken production B1
Reading B1
Spoken interaction B1
Writing A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Microsoft Word | Microsoft Powerpoint | Microsoft Excel | Zoom | Microsoft Office | Skype

PUBLICATIONS

2025

Flavonoids and Flavonoid-Based Nanopharmaceuticals as Promising Therapeutic Strategies for Colorectal Cancer-An Updated Literature Review

Authors Smeu A, Marcovici I, Dehelean CA, Dumitrel SI, Borza C, Lighezan R. | **Journal Name** Pharmaceuticals (Basel). | **Volume, Issue and Pages** 18(2):231 |

2025

Impairment of platelet mitochondrial respiration: an overview of animal models of disease and drug- induced toxicity

Authors Bogdan M Lolescu, Adina V. Furdui-Lința, Maria D Dănilă, Aexandru I. Blidișel, Cristina A. Dehelean, Danina M Muntean, Rodica Lighezan *, Octavian M. Crețu , | **Journal Name** FARMACIA | **Volume, Issue and Pages** Vol. 73, 1 |

2024

Vasculo - Protective Effects of Standardized Black Chokeberry Extracts in Mice Aorta

Authors Buda V, Sturza A, Minda D, Diaconeasa Z, Iuhas C, Bădescu B, Dehelean CA, Danciu C, Muntean MD, Lighezan R, Dănilă MD. | **Journal Name** Int J Mol Sci. | **Volume, Issue and Pages** Dec 17;25(24):13520. |

2024

The highs and lows of monoamine oxidase as molecular target in cancer: an updated review

Authors Hâncu IM, Giuchici S, Furdui-Lința AV, Lolescu B, Sturza A, Muntean DM, Dănilă MD, Lighezan R. | **Journal Name** Mol Cell Biochem | **Volume, Issue and Pages** Dec 23 |

2024

Comparative Analysis of qSOFA, PRIEST, PAINT, and ISARIC4C Scores in Predicting Severe COVID-19 Outcomes Among Patients Aged over 75 Years

Authors Rosca D, Krishna V, Chetarajupalli C, Jianu AM, Deak IE, Virzob CRB, Laitin SMD, Boruga M, Lighezan R. | **Journal Name** Diseases | **Volume, Issue and Pages** Nov 28;12(12):304 |

2023

Seroprevalence of Anti-Echinococcus granulosus Antibodies and Risk Factors for Infection in Blood Donors from Western Romania

Authors Paduraru AA, Lupu MA, Lighezan R, Pavel R, Cretu OM, Olariu TR | **Journal Name** Life (Basel) |

Volume, Issue and Pages Mar 24;13(4):871 |

2022

Seroepidemiology of Toxoplasma gondii infection in blood donors from Western Romania

Authors Lupu MA, Lighezan R, Paduraru AA, Dragomir A, Pavel R, Grada S, Miha AG, Ursoniu S, Olariu TR |

Journal Name Microorganisms | **Volume, Issue and Pages** May 5;10(5):973 |

2022

High SARS-CoV-2 seroprevalence in blood donors from Romania after the third COVID-19 pandemic wave.

Authors Olariu TR, Lighezan R, Ursoniu S, Craciun AC, Miha AG, Lupu MA. | **Journal Name** Infectious Diseases (Lond) |

Volume, Issue and Pages Volume 54 Issue 7, 54: 534-537. |

2022

Seroprevalence and risk factors of Trichinella spiralis infection in blood donors from Western Romania

Authors Pavel R, Ursoniu S, Paduraru AA, Lighezan R, Lupu MA, Olariu TR | **Journal Name** Medicina (Kaunas) |

Volume, Issue and Pages Jan 15;58(1):128 |

2021

Seroprevalence of SARS-CoV-2 antibodies in 2115 blood donors from Romania.

Authors Olariu TR, Lighezan R, Ursoniu S, Craciun AC, Paduraru AA, Lupu MA. |

Journal Name Clinical Microbiology and Infection | **Volume, Issue and Pages** Jan 6;27(5):817–9 |

2021

Seroprevalence of SARS-CoV-2 antibodies in 2115 blood donors from Romania

Tudor Rares Olariu, **Rodica Lighezan**, Sorin Ursoniu, Alina Craciun, Maria Alina Lupu

Authors Olariu TR, Lighezan R, Ursoniu S, Craciun AC, Paduraru AA, Lupu MA |

Journal Name Clinical Microbiology and Infection, | **Volume, Issue and Pages** 27/5, pag 817-819 |

2021

Pleiotropic Effects of Eugenol: The Good, the Bad, and the Unknown

Authors Aburel OM, Pavel IZ, Dănilă MD, Lelcu T, Roi A, Lighezan R, Muntean DM, Rusu LC |

Journal Name Oxidative Medicine and Cellular Longevity, | **Volume, Issue and Pages** 27/5, pag 817-819 |

2016

Monoamine oxidase inhibition improves vascular function in mammary arteries from nondiabetic and diabetic patients with coronary heart disease.

Lighezan R, Sturza A, Duicu OM, et al.

Can J Physiol Pharmacol. 2016;94(10):1040-1047. doi:10.1139/cjpp-2015-0580

2016

● **Hydrogen Peroxide Promotes Endothelial Dysfunction by Decreasing Nitric Oxide Bioavailability in Experimental Diabetes Mellitus.**

Sturza, A., Duicu, O., Vaduva, A., **Lighezan R.**
Rev. Chim. 67(11): 2016. 2302-2305.

2016

● **Assessment of Mitochondrial Dysfunction and Monoamine Oxidase Contribution to Oxidative Stress in Human Diabetic Hearts.**

Duicu OM, **Lighezan R**, Sturza A, et al.
Oxid Med Cell Longev. 2016;2016:8470394. doi:10.1155/2016/8470394

2015

● **Seroprevalence of Toxoplasma gondii in Western Romania**

Tudor Rares Olariu, Cristina Petrescu, Gheorghe Darabus, **Rodica Lighezan**, Octavian Mazilu
Infectious Disease, 2015;47(8):580-583. doi:10.3109/23744235.2015.102809

2015

● **Monoamine Oxidases as Potential Contributors to Oxidative Stress in Diabetes: Time for a Study in Patients Undergoing Heart Surgery.**

Duicu OM, **Lighezan R**, Sturza A, et al.
Biomed Res Int., 2015; 2015:515437, doi:10.1155/2015/515437

2014

● **Angiotensin II-derived Peroxide impairs endothelial function in a murine model**

Munteanu M, Sturza A, Timar R, Muntean D, **Lighezan R**, Noveanu L, .
Rev. Chim. 65(6):2014:703-705

2014

● **The effects of Glycyrrhiza Glabra L Total extract on liver mitochondrial respiratory function.**

Coricovac D, Dobrea C, Dehelean C, **R Lighezan**
Rev. Chim. 65 (2): 2014: 608-611

2013

● **Morphological and functional aspects of sciatic nerve regeneration after crush injury.**

Răducan A, Mirică S, Duicu O, **Lighezan R**
Rom J Morphol Embryol. 2013;54(3 Suppl):735-739.

PROJECTS

2016

Member in the project

Mitochondrial fitness mapping: MITOEAGLE: Evolution-Age-Gender-Lifestyle-Environment, COST Action CA15203, Victor Babes University of Medicine and Pharmacy, Timisoara

2012

Coordinator of the project

The Contribution of Oxidative Stress Induced by Monoaminoxidase in Cardiovascular Dysfunction and The Prognosis of Coronary Patients with and without Diabetes"; Victor Babes University of Medicine and Pharmacy, Timisoara, Department: Histology

2005 – 2008

Member in the project

Integrative Role of Mitochondria in Cardioprotection Induced by Myocardial Experimental Ischemia/ Reperfusion"; National University Research Council Project; Victor Babes University of Medicine and Pharmacy, Timisoara, Department: Histology

2007

Member in the project

Cardioprotective Strategies at Reperfusion: Mitochondria as Multiple Therapeutic Target – CARDIO-MITO-PROT"; National Association for Scientific Research Project; Victor Babes University of Medicine and Pharmacy, Timisoara, Department: Histology

2004

Member in the project

Diagnosis, Prognosis and Therapy of Tumoral Angiogenesis. A Clinical, Pathological and Experimental Study"; CNCSIS Grant Project, category A; Victor Babes University of Medicine and Pharmacy, Timisoara, Department: Histology

ORGANISATIONAL SKILLS

Currently the Director of the Blood Establishment Timisoara

I possess strong organizational skills essential for efficiently coordinating medical, logistical, and administrative activities.

I have experience in developing long-term strategies, optimizing workflows, and allocating resources, effectively. I lead multidisciplinary teams, manage staff training and evaluation, and promote a collaborative work environment.

I also oversee the digital management of donor data and blood stock levels, using key performance indicators to support data-driven decisions.

I maintain effective communication with public health authorities, hospitals, and emergency services, and I am fully prepared to respond quickly to critical situations such as blood shortages or epidemiological risks.

COMMUNICATION AND INTERPERSONAL SKILLS

30 years teaching and public speaking experience

I possess strong communication and interpersonal skills, essential in both academic and clinical leadership roles. As an Associate Professor, I am able to deliver complex scientific content in a clear and accessible way to students, peers, and the broader scientific community.

I contribute to scientific publications and mentor junior researchers with empathy and clarity.

In my role as a Blood Establishment Director, I ensure effective communication across multidisciplinary teams, facilitate collaboration between departments, and maintain a constructive dialogue with public health authorities, hospitals, and donors.

I am skilled in scientific writing, protocol development, and public communication. My approach is based on emotional intelligence, cultural sensitivity, and a strong commitment to teamwork, transparency and continuous professional development.