



## Rodica Lighezan

**Place of birth:** Arad, Romania

**Nationality:** Romanian

**Gender:** Female

### CONTACT

 Eftimie Murgu Square no.1  
300041 Timisoara, Romania  
**(Work)**

 [lighezan.rodica@umft.ro](mailto:lighezan.rodica@umft.ro)

### WORK EXPERIENCE

- **Department of Infectious Diseases, Parasitology, "Victor Babes" University of Medicine and Pharmacy** Timisoara, Romania  
**Professor**  
10/2025 – Current
- **Regional Blood Establishment Timisoara** Timisoara, Romania  
**Director**  
2017 – Current
- **"Victor Babes" University of Medicine and Pharmacy** Timisoara, Romania  
**Department** Department of Parasitology  
**Associate Professor**  
2014 – 09/2025
- **"Victor Babes" University of Medicine and Pharmacy** Timisoara, Romania  
**Department** Department of Histology  
**Senior Lecturer**  
2002 – 2014
- **Victor Babes" University of Medicine and Pharmacy** Timisoara, Romania  
**Department** Department of Parasitology  
**Assistant Professor**  
1991 – 2002
- **MedLife Hyperclinica** Timisoara, Romania  
**Head of the Clinical Laboratory**  
2008 – 2017
- **Municipal Clinic Emergency Hospital** Timisoara, Romania  
**Senior Specialist Physician in Laboratory Medicine,**  
1999

### EDUCATION AND TRAINING

- **2001**  
**PhD - Academic title of Doctor in the field of Medicine** "Victor Babes" University and Pharmacy Timisoara  
1995 – 1999 Timisoara, Romania
- **Specialist Physician in Laboratory Medicine** Municipal Clinic Emergency Hospital  
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

### [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. Dhelean, Danina M Muntean, Rodica Lighezan \*, Octavian M. Crețu , |

**Journal Name** FARMACIA, 2025, Vol. 73, 1 | **Volume, Issue and Pages** Vol. 73, |

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 |

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 |

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

Write here the description...

**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

## 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

## 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

## 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

**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**

Oana M. Aburel, Ioana Z. Pavel, Maria D. Dănilă , Theia Lelcu, **Rodica Lighezan**, Danina Muntean, Laura Rusu  
Oxidative Medicine and Cellular Longevity, Article ID 3165159 | <https://doi.org/10.1155/2021/3165159>

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.**

Răducă A, Mirică S, Duicu O, **Lighezan R**

## 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.

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Timișoara, 03/2026