



Miruna Gug

UNIV. ASSIST. PHD(C), MEDICAL REZIDENT
MEDICAL GENETICS

Personal Information

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Researcher Identifiers

WOS ID: ABB-5040-2021-
(29 citing articles, H-index=3)
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Languages

English

Profile

Medical Genetics Resident and Assistant Professor specializing in genomics of rare diseases and bioinformatics.

Currently pursuing a PhD in Medical Genetics and a Master's in Bioinformatics, with multiple ISI-indexed publications contributing to advancements in genetic diagnostics.

Experienced in research, education, student mentorship, and international scientific collaborations.

My work is dedicated to bridging genomics research and clinical practice, with the goal of enhancing diagnostic accuracy and optimizing patient care.

Professional Experience

University Assistant, Victor Babes University of Medicine and Pharmacy, Timisoara

MARCH 2025 – PRESENT

Faculty of Medicine - Department of Microscopic Morphology - **Medical Genetics**

Genetics Medical Resident, "Louis Turcanu" Emergency Clinical Hospital for Children, Timisoara

JANUARY 2025 – PRESENT

Timis Regional Center for Medical Genetics

Epidemiology Medical Resident, Clinical Hospital for Infectious Diseases and Pneumophtisiology Dr. Victor Babes, Timisoara

JANUARY 2024 – DECEMBER 2024

Education

Master's Student in Bioinformatics, West University, Timisoara

OCTOBER 2024 – PRESENT

Faculty of Mathematics and Computer Science - Informatics

PhD(c) in Medicine, Victor Babes University of Medicine and Pharmacy, Timisoara

OCTOBER 2023 – PRESENT

Doctoral School - Medicine - Medical Genetics

Doctoral thesis: *Prevalence of Pathogenic Variants in Rare Diseases: Perspectives of Genetic Diversity in Western Romania*

Medical Doctor, Victor Babes University of Medicine and Pharmacy, Timisoara

SEPTEMBER 2017 – SEPTEMBER 2023

Faculty of Medicine - General Medicine

Diploma thesis: *Clinico-genomic correlations highlighted by multi cancer panel testing in breast cancer*

Bachelor's Degree Biochemistry, West University, Timisoara

SEPTEMBER 2015 – JULY 2018

Faculty of Chemistry, Biology and Geography - Biochemistry

Bachelor's thesis: *Prediction of the Pharmacokinetics and Biological Effects of Chitin and Chitosan Derivatives*

Certificate in Psychopedagogy - Level 1 Module, West University, Timisoara

SEPTEMBER 2015 – JULY 2017

The Teaching Staff Training Department

High School, "Constantin Diaconovici Loga", Timisoara

SEPTEMBER 2012 – JULY 2015

Branch: Mathematics and Informatics

Internships

Research Exchange, Nova University, Lisbon

JULY 2022

Student Research Exchange Program

- SCORE – Standing Committee on Research Exchange
- IFMSA – International Federation of Medical Students Associations
- CEDOC – Chronic Diseases Research Center

Project: “Gene Therapy as a new therapeutic approach for Diabetic Retinopathy”

Research and clinical internship in cytogenetics and molecular genetics, Medical Genetics Office Dr. Gug, Timisoara

JULY 2016 – PRESENT

Volunteering Experience

Volunteering in Academic Development Program, Victor Babes University of Medicine and Pharmacy, Timisoara

Faculty of Medicine - Department of Microscopic Morphology - Medical Genetics

SEPTEMBER 2019 – SEPTEMBER 2023

Faculty of Medicine - Department of Biochemistry and Pharmacology - Biochemistry

SEPTEMBER 2018 – SEPTEMBER 2019

Medical Students Society Timisoara - SSMT

Vice President of Treasury

SEPTEMBER 2021 – SEPTEMBER 2023

Volunteer

SEPTEMBER 2018 – SEPTEMBER 2024

Rotaract District 2241 Romania and Republic of Moldova

Rotaract District Assistant

JULY 2019 – JULY 2020

Rotaract Club Timisoara Cetate President

JULY 2018 – JULY 2019

Treasurer

JULY 2016 – JULY 2017

Vice President

JULY 2015 – JULY 2016

Member

JANUARY 2015 – 2022

Rotaract District 2241 Romania and Republic of Moldova

Interact Club Timisoara Cetate Founder President

NOVEMBER 2013 – JULY 2014

Interact District 2241 Romania and Republic of Moldova

Scientific Portofolio - ISI

First Author

2024

Approach and Management of Pregnancies with Risk Identified by Non-Invasive Prenatal Testing.

Gug M, Ratiu A, Andreescu N, Farcas S, Laitin S, Gug C.

J Pers Med. 2024 Mar 29;14(4):366. doi: 10.3390/jpm14040366. PMID: 38672993; PMCID: PMC11050912. (IF=3.0)

Co-Author

2024

Role of Age and Comorbidity Interactions in COVID-19 Mortality: Insights from Cardiac and Pulmonary Conditions.

Patrascu R, Dumitru C.S, Laza R, Besliu R.S, Gug M, Zara F, Laitin S.M.D.

The J. Clin. Med. 2024, 13, 7510. <https://doi.org/10.3390/jcm13247510> (IF=3.0)

Co-Author

2024

Impact of Vaccination Status on COVID-19 Severity and Pulmonary Involvement.

Laitin S.M.D, Baditoiu L.M, Laza R, Besliu R.S, Stoicescu E.R, Gug M, Dumitru C.S, Patrascu R.

Medicina 2024, 60, 1919. <https://doi.org/10.3390/medicina60121919>. (IF=2.4)

Co-Author

2022

Genetic Counseling and Management: The First Study to Report NIPT Findings in Romanian Population.

Gug C, Mozos I, Ratiu A, Tudor A, Gorduza E.V, Caba L, Gug M, Cojocariu C, Furau C, Furau G, Vaida M.A, Stoicanescu D.

Medicina (Kaunas). 2022 Jan 5;58(1):79. doi: 10.3390/medicina58010079. PMID: 35056387; PMCID: PMC8777823. (IF=2.4)

Co-Author

2020

Rare Splicing Mutation in COL1A1 Gene Identified by Whole-Exome Sequencing in a Patient with Osteogenesis Imperfecta Type I Followed by Prenatal Diagnosis: A Case Report and Review of the Literature.

Gug C, Caba L, Mozos I, Stoian D, Atasie D, Gug M, Gorduza E.V. Gene. 2020 May 30;741:144565. doi: 10.1016/j.gene.2020.144565. PMID: 32165296. (IF=3.688)

Research Awards

UEFISCDI Award

2021

Award granted by UEFISCDI for 7 authors from Romania for the recognition of research results – for the article ***Rare splicing mutation in COL1A1 gene identified by whole exomes sequencing in a patient with Osteogenesis Imperfecta type I followed by prenatal diagnosis: a case report and review of the literature.***

GENE. PN-III-P1-1-1-PRECISI-2021-64041 Competition, Evaluation Results, List 3, position 69 (pages 33-34), published on 24.11.2021 for articles published in 2020.

Courses

Lector - *Advances in the pathophysiology, screening, diagnosis and treatment of acute and chronic diseases*

Victor Babes University of Medicine and Pharmacy Timisoara - Pathophysiology

MARCH 2025

Lector - *Pathophysiology at the Interface of Specialties*

Victor Babes University of Medicine and Pharmacy Timisoara - Pathophysiology

MARCH 2023

Participant - Practical Course in Molecular Genetics: *Advanced Techniques in Molecular Genetics*

University of Medicine and Pharmacy of Craiova - Medical Genetics

SEPTEMBER 2022

Lector - *Genetics: At the Intersection of Specialities*

Victor Babes University of Medicine and Pharmacy Timisoara - Medical Genetics

MARCH 2022

Lector - *Chronic Diseases: Current Aspects of Pathophysiology, Diagnosis, Monitoring, and Treatment*

Victor Babes University of Medicine and Pharmacy Timisoara - Pathophysiology

MARCH 2022

Lector - *Biomarkers in Chronic Diseases: Pathophysiological and Clinical Aspects*

Victor Babes University of Medicine and Pharmacy Timisoara - Pathophysiology

MARCH 2021

Lector - *Precision Genetic Diagnosis*

Victor Babes University of Medicine and Pharmacy Timisoara - Medical Genetics

OCTOBER 2020

Professional Society Memberships

The European Society of Human Genetics - ESHG

2016 – PRESENT

The Romanian Society of Medical Genetics - SRGM

2016 – PRESENT

The Romanian Society of Bioinformatics - SRBI

2025 – PRESENT