

PERSONAL INFORMATION

Dumitrana-Daniela IORDACHE



APPLIED FOR

Public defence of the doctoral thesis entitled “Characterisation and evolutionary impact of CRISPR-Cas systems in clinically relevant pathogenic bacteria”

WORK EXPERIENCE

October 2019 – Present

Associate teaching position at the Faculty of Biology and Geology
Babeş-Bolyai University, Cluj-Napoca

- Bioinformatics
- Medical Genetics and Cytogenetics
- Biophysics
- Biotechnologies

June 2018 – Present

Research activities in Molecular Biology at the Faculty of Biology and Geology
Babeş-Bolyai University, Cluj-Napoca

- PCR
- Agarose gel electrophoresis
- Bioinformatics
- Statistics

May 2021 – April 2022

POCU/380/6/13/123886 Entrepreneurship for innovation through doctoral and postdoctoral research

October 2018 – September 2019

College for Advanced Performance Studies
Babeş-Bolyai University, Cluj-Napoca

March 2019 – June 2019

Erasmus internship at Interfaculty Institute for Microbiology and Infection Medicine
University of Tübingen, Germany

- PCR and gel electrophoresis
- Cloning in prokaryote vectors
- Protein expression and purification
- SDS-PAGE and Western-Blotting

November 2016 - December 2016

Internship at Pfizer Inc.
Quality Control Department, Cluj-Napoca

- Validation of analytical methods
- Routine Analysis

March 2016 - September 2016

Volunteering at Interdisciplinary Research Institute on Bio-Nano-Sciences
Babeş-Bolyai University, Cluj-Napoca

- qPCR, PCR and gel electrophoresis
- SDS-PAGE
- Cloning in prokaryote vectors

EDUCATION AND TRAINING

- 2019- Present **Integrative Biology, Faculty of Biology and Geology, PhD programme**
 Babeş-Bolyai University, Cluj-Napoca

 - Topic: The CRISPR-Cas system – implications in the evolution and physiology of prokaryotes
- 2019 **Acquired Master Diploma (GPA 10/10)**
- 2017 – 2019 **Master of Science in Molecular Biotechnology, Faculty of Biology and Geology, Top of class**
 Babeş-Bolyai University, Cluj-Napoca

 - Recombinant DNA technology
 - Genetics and Molecular biotechnologies
 - Molecular Microbiology
 - Molecular Immunology
 - Bioinformatics
 - The Structure and Evolution of Genomes
 - Molecular Taxonomy and Ecology
 - Transmission Electron Microscopy
- 2017 **Acquired Bachelor Diploma (GPA 10/10)**
- 2014 – 2017 **Biology, Faculty of Biology and Geology, Bachelor's programme, Top of class**
 Babeş-Bolyai University, Cluj-Napoca

 - Genetics
 - Molecular and Cellular Biology
 - Biochemistry
 - Immunology
 - Microbiology
 - Introduction in biotechnology

PERSONAL SKILLS

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	C1	C1	C1
ALPHA Certificate of Language Proficiency – July 2017					

Communication skills

- **Public Speaking and Presentation:** Confident and engaging public speaker with experience delivering presentations and workshops to diverse audiences, including academic peers and the general public
- **Scientific Communication:** Proven ability to translate complex scientific concepts into clear and concise language for both specialized and non-specialized audiences
- **Interpersonal and Collaborative Skills:** Demonstrated ability to build rapport and collaborate effectively with individuals from diverse backgrounds and disciplines
- **Active Listening and Feedback:** Adept at active listening, incorporating feedback, and fostering a positive and inclusive communication environment.

Organisational / managerial skills

- **Data Analysis and Synthesis:** Demonstrated ability to collect, analyze, and synthesize large volumes of information from diverse sources, drawing meaningful insights and actionable conclusions
- **Adaptability and Problem-Solving:** Resourceful and adaptable in the face of unexpected challenges or changing requirements, with a track record of finding creative solutions to problems
- **Detail-oriented and Organized:** Meticulous attention to detail, even under pressure, ensuring high-quality deliverables and accurate results

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of office suite (**Power Point, Word and Excel**)
- good command of photo editing software (**Adobe Photoshop**)
- good command of video editing software (**Adobe Premiere Pro**)
- good command of audio editing software (**Adobe Audition**)
- good command of the following programs used in bioinformatics and statistics:
 - **PerlPrimer** (PCR primers design)
 - **FastPCR** (integrated tool for PCR primers or probe design)
 - **ContigExpres** (assembling DNA fragments into contigs)
 - **Mega7.0** (Molecular Evolutionary Genetics Analysis)
 - **BioEdit** (sequence alignment editor)
 - **IBM SPSS** (statistics software)
 - **Python** (programming language)

Other skills

- painting
- photography
- voiceover recordings

Driving licence

AM, B1, B

ADDITIONAL INFORMATION

- member of RSBI: Romanian Society of Bioinformatics (2020 – present)
- member of the Centre for Systems Biology, Biodiversity and Bioresources (2019 – present)
- member of the Faculty Council, Faculty of Biology and Geology (January 2016 – February 2018)
- member of the Accommodation Committee – Dorm no. 4, (2017)
- member of the Dorm no. 4 Committee – (2016-2017)
- member of the Accommodation Committee – Dorm no. 4, (2016)
- volunteer in OSpN (2015)

ANNEXES

(Certificates can be provided if requested)

Data
04.09.2024

