



# Pavel Ina Iuliana

Veterinarian

Department XI Public Health

Faculty of Veterinary Medicine

I am a graduate of the Faculty of Veterinary Medicine from Iași (2009). My professional career allowed me to accumulate theoretical and practical knowledge in the field of molecular biology. The beginning of this route started with the PHD student internship. My development as a scientific researcher was supported by active participation in 4 research grants. The experience gained in the laboratory led me to study the Biology and to follow master's specialization in Molecular genetics at UAIC.

## Professional experience

### 2022- current Asistant professor, DVM, PHD

Faculty of veterinary medicine, "Ion Ionescu de la Brad" Iași University of life sciences  
Discipline: Control of products and food of animal origin

### 2010 - 2013 Biologist - junior specialist

Regina Maria Iași (CMU Iași)  
Activities - molecular biology: implementation of working protocol necessary for isolation of nucleic acids, performing RT-qPCR for SARSCoV-2 testing; testing of SARS-CoV-2 viral RNA by RT-qPCR method

### 2009 - 2017 Scientific researcher

Biobank laboratory of UMF Iași  
Activities: Development of qPCR techniques for detecting EGFR gene mutations in nonmicrocellular bronchopulmonary cancers. Next generation sequencing (NGS) for Mycobacterium tuberculosis strains and bronchopulmonary cancer (paraffin-fixed tissue, plasma samples-cfDNA). Within this laboratory I contributed to realization of 4 international quality control programs.

## Education

### 2016 - 2020 Bachelor's degree: biology specialisation

Faculty of Biology, "Alexandru Ioan Cuza" University of Iași  
The main disciplines studied/professional skills acquired: Cell biology, plant physiology, animal physiology, biophysics, systematics of cryptogams, systematics of phanerogams, plant histology, invertebrate biology, invertebrate systematics, vertebrate biology, vertebrate systematics, genetics, hematology, etc.

### 2016- 2019 Master's degree: Molecular genetics specialisation

Faculty of Biology, "Alexandru Ioan Cuza" University of Iași  
The main disciplines studied/professional skills acquired: Molecular mechanisms of cell signaling, molecular alterations involved in oncogenesis, molecular biology of cell cycle, molecular phylogeny etc.

### 2009 - 2014 PHD in Mecal science, specialisation infectious diseases

Faculty of veterinary medicine, "Ion Ionescu de la Brad" Iași University of life sciences  
Thesis: Epidemiology and diagnosis of Mycobacterium avium infections.

### 2003 - 2009 Bachelor's degree: doctor of veterinary medicine (DVM)

Faculty of veterinary medicine, "Ion Ionescu de la Brad" Iași University of life sciences  
The main disciplines studied/professional skills acquired: Anatomy, physiology, pathophysiology, genetics and cell biology, pathological anatomy, epidemiology, pathology and medical clinic, infectious diseases and preventive medicine, parasitology and parasitic diseases, etc.

## Contact Details



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## Areas of expertise

- Veterinary sanitary control
- Molecular biology
- Infectious diseases
- Microbiology
- Epidemiology
- General biology

## Competences

- Molecular biology
- Isolation of nucleic acids
- Real time PCR
- NGS/WGS sequencing
- Data analysis
- Food quality control

# Research activity

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## Scientific papers

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- **ORCID** <https://orcid.org/0009-0005-2749-886X>
- **Google Scholar** <https://scholar.google.com/citations?user=yRjQtdgAAAAJ&hl=ro>

## Research projects and grants

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- 2015 - 2017**      **Team Member**  
PN-II-RU-TE-2014-4-2858 Caracterizarea moleculară a cancerelor bronhopulmonare
- 2015**            **Team Member**  
Project IZERZ0 - 142235 / 1, Integrative Translational Research Network for Lung Cancer (Iași-St. Gallen)
- 2013 - 2015**    **Team Member**  
PN-II-ID-PCE-2011-3-0565 Development and implementation of some techniques for rapidly TB diagnosis
- 2011**            **Team Member**  
Project CNMP type PN-II-2008-58-180: Combating of genetically recombinant influenza virus: testing of new vaccines based on lentiviral vectors in swine and poultry

## Internships and scholarships

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- 2014 (3 months)** Scientific researcher department for pulmonology, Kantonsspital, ST Gallen, Switzerland, Exchange of experience, activities: molecular biology: reverse transcription, real time PCR, gene expression; biobanking
- 2012 (6 months)** Institute Pole santé animale de Tours (INRA)-Infections mycobactériennes animales, UR 1282 IASP, PHD student internship, activities: mycobacterial DNA isolation, MIRU-VNTR, RFLP and LSP typing of mycobacteria

## Scientific and professional organizations

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- Ordinul biochimistilor, biologilor si chimistilor in sistemul sanitar din Romania - OBBCSSR (2021-202
- Asociația Generală a Medicilor Veterinari din România - AGMVR
- Asociația pentru protecția mediului și promovarea calității vieții PRO MED VITA