



## **Assistant professor Pavel Ina Iuliana, DVM, PhD**

Practical work with students at: Control of products and food of animal origin  
Faculty of Veterinary Medicine, “Ion Ionescu de la Brad” Iasi University of life sciences  
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### **Competences**

- ✓ Microbiology
- ✓ Biobanking
- ✓ Molecular biology

### **Research areas**

- ✓ Infectious diseases
- ✓ Detection of EGFR gene mutations in nonmicrocellular bronchopulmonary cancers
- ✓ NGS Sequencing with Ion Torrent technology: *Mycobacterium tuberculosis* strains, bronchopulmonary cancer

### **Educational background**

- Bachelor's degree (2020) - Biology specialization; Faculty of Biology, “Alexandru Ioan Cuza” University of Iasi (2016-2020)
- Master's degree (2019) – Molecular Genetics Specialization; Faculty of Biology, “Alexandru Ioan Cuza” University of Iasi (2016-2019)
- PhD in Medical Science, specialization Infectious diseases (2014); doctoral studies at the “Ion Ionescu de la Brad” Iasi University of life sciences (2009 – 2014)
- DVM (2009) – Faculty of Veterinary Medicine, “Ion Ionescu de la Brad Iasi” University of life sciences (2003 - 2009)
- Certificate of graduation from the Department for Teacher Training (2007), “Ion Ionescu de la Brad” University of Life Sciences Iași (2004-2007)
- Baccalaureate Diploma (2009) - High School of Informatics, Piatra Neamt, specialization mathematics-informatics (1999 - 2003)

### **Member of scientific / professional societies**

- ✓ Order of Biochemists, Biologists and Chemists in the Romanian Health System (OBBCSSR)

## Publication

### In journals with impact factor (ISI)

1. Cernomaz AT\*, **Macovei II**\*, Pavel I, Grigoriu C, Marinca M, Baty F, Peter S, Zonda R, Brutsche M, Grigoriu B, 2016 - *Comparison of next generation sequencing, SNaPshot assay and real-time polymerase chain reaction for lung adenocarcinoma EGFR mutation assessment* , BMC Pulm Med., 23; 16(1):88.(**IF=2.3**) \* autori cu contribuții egale.
2. Franzini A, Baty F, **Macovei II**, Durr O, Droege C, Betticher D, Grigoriu BD, Klingbiel D, Zappa F, Brutsche M, 2015 - *Gene expression signatures predictive of bevacizumab/arlotinib therapeutic benefit in advanced non-squamous non-small cell lung cancer patients (SAKK 19/05 trial)*, Clin Cancer Res, 21(23):5253-63, (**IF=8.7**)
3. Cernomaz AT, Péter S, Gradinaru AC, Rusu-Cordunean F, Berlea ML, Cojocaru SI, Zonda R, Pavel I, **Macovei II**, Grigoriu BD, 2015 - *Alternative technique for culturing sputum for mycobacteria isolation: feasibility, performance and effect on laboratory quality assessment - a technical note" African Journal of Microbiology Research, Vol.9(19), pp.1294-1298 , (IF = 0.41)*
4. Rusu-Cordunean F, Berlea M, Cernomaz AT, Marinca MV, Peter S, **Pavel I**, Grigoriu BD, 2015 - *EGFR mutations in non-small cell lung cancer: local epidemiology and clinical importance*, Rev Med Chir Soc Med Nat Iasi. 119(4): 1031-6, (**IF=0.3**)
5. Olaru-Péter S, Grigoriu C, Boiculese LV, Gradinaru AC, **Macovei II**, Diculencu D, Grigoriu B, 2014 - *Detection of Mycobacterium tuberculosis growth by direct microscopic observation has a lower cost, higher sensitivity and higher diagnostic value than liquid and solid media culture*, Indian J Med Microbiol, 32(3):315-7 , (**IF=1.5**)

### Proceedings in journals with impact factor (ISI)

1. **Macovei II**, Pavel I, Zonda R, Peter S, Rusu-Cordunean F, Cernomaz AT, Grigoriu BD, 2016 - Comparative analysis of lung cancer driver mutations from FFPE samples and liquid biopsies by IonTorrent next generation sequencing, Thematic Poster, European Respiratory Society (ERS), International Congress London (**IF= 9.25**)
2. Cernomaz AT, **Macovei II**, Pavel I, Grigoriu C, Marinca M, Peter S, Zonda R, Berlea ML, Rusu-Cordunean F, Grigoriu BD, 2016 - Prevalence of mutations in Romanian patients with non-squamous lung carcinoma evaluated through next generation sequencing, Thematic Poster , European Respiratory Society (ERS), International Congress London(**IF= 9.25**)
3. Pavel I, **Macovei II**, Peter S, Diculencu D, Rusu-Cordunean F, Grigoriu BD, 2016 - Detection of first and second line drug resistance mutations from multi drug resistant mycobacterium tuberculosis strains by Ion Torrent whole genome sequencing (WGS), Poster Discussion, European Respiratory Society (ERS), International Congress London (**IF= 9.25**)
4. Peter S, Cernomaz AT, Rusu-Cordunean F, **Macovei II**, Pavel I, Zonda R, Grigoriu BD, 2016 - Rapid detection of mycobacterium tuberculosis from MODS culture by PCR, Poster Discussion, European Respiratory Society (ERS), International Congress London(**IF= 9.25**)

### In BDI journals

1. Pavel I, Miron LD, Răileanu C, **Macovei II**, Tronciu C, Ciucă L, Acatrinei D, - 2014, The Acarological Risk In Iași Recreational Areas, Lucr Șt USAMV Iasi Med Vet, 57 (1-2):140-145.
2. Pavel I, Miron LD, Răileanu C, **Macovei II**, Tronciu C, Acatrinei D, Ciucă L, - 2014, Seasonal Dynamics Of Ixodid Ticks In Iași Urban Area, Lucr Șt USAMV Iasi Med Vet, 57 (1-2):135-139.
3. Pavel I, Miron LD, **Macovei II**, Tronciu C, Ciucă L, Acatrinei D, 2014 - Short Survey of Questing Ticks Dispersal (Ixodidae) In The North-Eastern Romania, Lucr Șt Med Vet Timișoara Vol. 47 (3): 78 – 83.
4. **Macovei I**, Cochard T, Pavel I, Biet Fr, Savuta Gh, 2013 - Molecular characterization of *Mycobacterium avium subsp. avium* and *Mycobacterium avium subsp. paratuberculosis* by MIRU-VNTR typing, Bulletin USAMV, Veterinary Medicine, Cluj Napoca 70(1):88-93.

5. **Macovei II**, Olaru-Péter S, Pavel I, Pașca AS, Savuța Gh, 2013a- *Mycobacterium avium ssp. avium* studied in naturally infected hens by culture and pcr identification, *Lucr Șt USAMV Iasi Med Vet*, 56 (3-4):462-467.
6. **Macovei II**, Savuța Gh, 2012 - *Seroepidemiological study regarding ruminant paratuberculosis in the east of Romania* - *Lucr Șt USAMV Iasi Med Vet*, 55:768-772.
7. **Macovei II**, Manolescu S, Rîmbu C, Pasca S, Dragan G, Savuța Gh, 2010 - *Study of an outbreak of fowl typhoid in pheasants*, *Lucr Șt USAMV Iasi Med Vet*, 53(12): 267-270.

### **Postgraduate training**

- ✓ 2011: Certificate: Molecular Biotechnology - Medical Applications - "Iuliu Hațieganu" University of Medicine and Pharmacy Cluj-Napoca (16.05-19.05.2011)
- ✓ 2012: Research internship within the project Supporting the participation of PhD students in doctoral programs, POS-DRU8/1,5/S/52176(2007 -2013) at Pole Santé Animal Institute Tours (INRA) - Infections Mycobactériennes Animales, UR 1282 IASP, Tours, France (1.02-31.07.2012)
- ✓ 2014: Research internship within the Project IZERZO - 142235/1, Integrative Translational Research Network for Lung Cancer (Iași-St. Gallen), Department of Pneumology, Kantonsspital, ST. GALLEN, Switzerland (19.06-18.09.2014)

### **Research projects**

1. Research 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 (2011)
2. Research Team Member: Project ID: PN-II-ID-PCE-2011-3-0565 Development and implementation of some techniques for rapidly TB diagnosis (2013-2014, 2015)
3. Research Team Member: Project IZERZO - 142235 / 1, Integrative Translational Research Network for Lung Cancer , Iași-St. Gallen (2015)
4. Research Team Member: Project PN-II-RU-TE-2014-4-2858 Molecular characterization of bronchopulmonary cancers (2015-2017)