



## PERSONAL INFORMATION

**MĂDESCU Bianca-Maria**


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## PROFESSIONAL EXPERIENCE

- 2023-2024 Associate teaching staff, Assit. professor, PhD  
 IULS Iasi, Faculty of Food and Animal Sciences, Mihail Sadoveanu Alley, no.8, Iasi, 700489, Romania, [www.iuls.ro](http://www.iuls.ro)
  - Teaching and research activity
 Type/sector of activity: higher education/teaching/training
- 2018-2023 Research assistant  
 Research and Development Station for Cattle Breeding, Dancu-Iasi, Romania  
 Type/sector of activity: Research & Development

## EDUCATION AND TRAINING

- 2020-2023 PhD – Doctor in Animal Product Tehnology  
 IULS Iasi, Faculty of Food and Animal Sciences
- 2022 Professional Training Course  
 Scientific Research Project Management
- 2022 Professional Training Course  
 Experimental Technique and Research in Zootechnics
- 2022 Professional Training Course  
 Introduction to Digital Zootechnics
- 2022 Professional Training Course  
 Developing and Presenting a Scientific Paper in the Field of Zootechnics
- 2018-2020 MSc – Master of science, Master in Animal Nutrition and Feeding  
 University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania
- 2018-2020 Pedagogic studies for higher education, Level I and II  
 University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania
- 2018 Diploma – Project Manager  
 Extreme Training, Iasi (Romania)
- 2014-2018 BSc – Bachelor of science, Engineer in Animal Science  
 University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania

**PERSONAL SKILLS AND COMPETENCES**

Mother tongue (s) Other languages	Romanian		SPEAKING		WRITING
	UNDERSTANDING		Spoking interaction	Spoking production	
English	Listening	Reading	B2	B2	B2
French	B2	B2	B2	B2	B2

Levels: B2: Independent user;

**Communication skills** Good communication skills, adaptability, and interpersonal abilities acquired through participation in various national and international scientific events; Integration into diverse cultural environments and work teams; clarity in speech.

**Organising/managerial skills** Initiative, discipline, and creativity;  
 Good time management skills acquired through the project management course;  
 Creative thinking;  
 Multitasking ability;  
 Perseverance and positivity;  
 Adaptability in various situations.

**Achieved skills related to job assignments** Proficient knowledge in conducting laboratory analyses (physical-chemical, biochemical, and microbiological);  
 Competence in organizing work teams and task distribution;  
 Initiative in developing idea plans;  
 Teaching and evaluating students' activities.

**SCIENTIFIC/  
ADMINISTRATIVE ACTIVITY**

**Published articles** Total: **60+ papers**, out of which **15 in ISI** Web of Science journals

**Representative papers:**

- Andrei-Cristian Matei, Șteofil Creangă, Mădălina-Alexandra Davidescu, Bogdan-Iosif Doboș, Ioana Porosnicu, **Bianca-Maria Mădescu**, 2020 - Research on the economic efficiency of farms in the function of the milking system. Scientific Papers. Series D. Animal Science, Vol. LXIII, Nr. 2, p. 296- 300.
- Mădălina Alexandra Davidescu, **Bianca Mădescu**, Mitică Ciorpac, Lucian Dascălu, Teodor Bugeac, Andrei Matei, Ioana Poroșnicu, Șteofil Creangă, 2020 - Genetic diversity of Pinzgau cattle breed: A systematic review. Scientific Papers. Series D. Animal Science, Vol. LXIII, Nr. 2, p. 78-84.
- **Bianca Maria Mădescu**, Roxana Lazăr, Marius Mihai Ciobanu, Paul Corneliu Boișteanu, 2021 - Morpfo-Productive Characteristics Of Aubrac Cattle Breed: A Sistematic Review. Scientific Papers. Series D. Animal Science. Vol. LXIV, No. 2, p. 260-265.
- Andra Sabina Neculai-Valeanu, Adina Mirela Ariton, **Bianca Maria MĂDESCU**, Cristina Mihaela RIMBU, Steofil CREANGA, 2021 – Nanomaterials and essential oils as candidates fgor developing novel treatment options for bovine mastits. Animals an Open Access Journal by MPDI, 11(6), 1625; (ISSN 2076-2615). IF=2,75, (premiată UEFISCDI).
- **Bianca-Maria Mădescu**, Roxana Lazăr, Mădălina-Alexandra Davidescu, Andrei-Cristian Matei, Paul-Corneliu Boișteanu, 2022 - Research On Morpfo-Productive Indicators Observed Of Aubrac And Aberdeen Angus Cattle Breeds. Scientific Papers. Series D. Animal Science. Vol. LXV, No. 2, 2022, pp. 279-283.

- Andrei-Cristian MATEI, **Bianca-Maria Mădescu**, Mihaela ONOFREI, 2022 - Financial Management Of European Funds For Romanian Agriculture. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development Vol. 22, Issue 2, pp. 489-493.
- **Bianca-Maria Mădescu**, Roxana Lazar, Ioana Bolohan, Marius Mihai Ciobanu, Paul Corneliu Boisteanu, 2023 - Body conformation analysis through biometric traits of aubracs cattle breed. Scientific Papers. Series D. Animal Science. Vol. LXVI, No. 1, pp. 292-298.
- **Bianca-Maria Mădescu**, Roxana Lazar, Andrei Cristian Matei, Paul Corneliu Boisteanu, 2023 - Research on the economic advantages of breeding Aubrac beef cattle: a review. Scientific Papers. Series D. Animal Science. Vol. LXVI, No. 2, pp. 331-341.
- **Bianca Maria Mădescu**, Roxana Lazar, Paul Corneliu Boisteanu, 2023 - Aubrac cattle, a new trend for beef cattle breeders. European Biotechnology Congress, pp. 47, doi: 10.2478/ebtj-2023-0004.
- Madalina Alexandra Davidescu, Claudia Panzaru, Daniel Simeanu, Andrei Ciobanu, **Bianca Maria Mădescu**, Ioana Porosnicu, Steofil Creanga, 2023 - The effectiveness of heat treatment processes applied to sour cream for the production of butter, validated by enzymatic methods. Scientific Papers. Series D. Animal Science. Vol. LXVI, No. 2, pp. 459-464

#### Awards and distinctions

##### Total: 12 – Representative titles

- Neculai-Valaleanu Andra-Sabina, **Mădescu Bianca-Maria**, Ariton Adina-Mirela, Rimbu Cristina-Mihaela, 2021 – Beet-Berry Vegan Kefir Plant-Based Kefir With Beetroot And Blueberry Powder. EUROINVENT - The European Exhibition of Creativity and Innovation, 13th edition, Inventics Section. (*Diploma of Gold Medal*)
- Neculai-Valeanu Andra-Sabina, Mădescu Bianca-Maria, Ariton Adina-Mirela, RIMBU Cristina-Mihaela, 2021 – Revire Functionalized Kefir With Maca And Cocoa Powder. EUROINVENT - The European Exhibition of Creativity and Innovation, 14th edition, Inventics Section. (*Diploma of Silver Medal*)
- Neculai-Valeanu Andra-Sabina; Ariton Adina-Mirela; **Mădescu Bianca-Maria**; Porosnicu Ioana; Rimbu Cristina-Mihaela, 2022 - PhytoMAST GEL, Phytotherapeutic formula for boosting udder health during heat stress periods. 7th Annual iCAN International Invention Innovation Competition in Canada. (*Prize "Best Women Inventor Award"*)
- Neculai-Valeanu Andra-Sabina, Ariton Adina-Mirela, **Mădescu Bianca-Maria**; Porosnicu Ioana; Rimbu Cristina-Mihaela, 2022 - PhytoMAST GEL - Phytotherapeutic formula for boosting udder health during heat stress periods. 7th Annual iCAN International Invention Innovation Competition in Canada. (*Special Award of Excellence*)
- Neculai-Valeanu Andra-Sabina; Ariton Adina-Mirela; **Mădescu Bianca-Maria**; Porosnicu Ioana; Rimbu Cristina-Mihaela, 2022 - PhytoMAST GEL - Phytotherapeutic formula for boosting udder health during heat stress periods. 7th Annual iCAN 2022 International Invention Innovation Competition in Canada. (*Diploma of Gold Medal*)
- Neculai-valeanu Andra-Sabina; Ariton Adina-Mirela; Rimbu Cristina-Mihaela; **Mădescu Bianca**; Porosnicu Ioana; Vaida Gheorghe, 2022 - Formulation of a multifunctional nanocomposite hydrogel based on natural polysaccharides, biogenic copper nanoparticles and essential oils. EUROINVENT - The European Exhibition of Creativity and Innovation, 14th edition, Inventics Section. (*AgroFuture Prize*)
- Neculai-valeanu Andra-Sabina; Ariton Adina-Mirela; Rimbu Cristina-Mihaela; **Mădescu Bianca**; Porosnicu Ioana; Vaida Gheorghe, 2022 - Formulation of a multifunctional nanocomposite hydrogel based on natural polysaccharides, biogenic copper nanoparticles and essential oils. EUROINVENT - The European Exhibition of Creativity and Innovation, 14th edition, Inventics Section. (*Diploma of Gold Medal*)
- **Mădescu Bianca-Maria**, Neculai-Valeanu Andra-Sabina, Ariton Adina-Mirela, Aursei Alina, 2023 – Phytotherapeutic hydrogel-based supplement with a supportive role against non-specific digestive disorders in calves. EUROINVENT - The

European Exhibition of Creativity and Innovation, 15th edition, Inventics Section. (*Diploma of Gold Medal*)

- Neculai-Valeanu Andra-Sabina, Ariton Adina-Mirela, **Bianca-Maria Mădescu**, Ciprian Radu, 2023 – Polymer-based hydrogel with biogenic silver nanoparticles and essential oil with potential applications in bovine digital dermatitis. EUROINVENT - The European Exhibition of Creativity and Innovation, 15th edition, Inventics Section. (*Diploma of Gold Medal*)
- Neculai-Valeanu Andra-Sabina, Ariton Adina-Mirela, **Bianca-Maria Mădescu**, Ioana Poroșnicu, Cătălina Sănduleanu, 2023 – Formulation of a multifunctional nanocomposite cleansing foam with potential application in wound management in livestock. EUROINVENT - The European Exhibition of Creativity and Innovation, 15th edition, Inventics Section. (*Diploma of Silver Medal*)
- Ariton Adina-Mirela, Poroșnicu Ioana, Neculai-Valeanu Andra-Sabina, **Mădescu Bianca-Maria**, 2023 – Functional Yogurt with MCT coconut oil an low carb content. EUROINVENT - The European Exhibition of Creativity and Innovation, 15th edition, Inventics Section. (*Diploma of Silver Medal*)
- Poroșnicu Ioana, Neculai-Valeanu Andra-Sabina, Ariton Adina-Mirela, **Mădescu Bianca-Maria**, 2023 – Yogurt enriched with pea protein. EUROINVENT - The European Exhibition of Creativity and Innovation, 15th edition, Inventics Section. (*Diploma of excellence*)

#### Research grants and contracts

##### 3 projects

- **Self-financed program 2018-2022, Project no. 919/28.09.2018**, "Development of methodology and analysis techniques for raw milk quality assurance, correlated with European legislation requirements," coordinated by S.C.D.C.B. Dancu, Iasi.
- **Funded project (research services contracts) 2020-2022, Contract No. 73/25.09.2020**, "Designing and developing a phytotherapeutic product for the treatment and prevention of mastitis in dairy cows," coordinated by S.C.D.C.B. Dancu, Iasi.
- **Secondary Education Project 2020-2022, Project ROSE AG 316/18.06.2020**: "Our university can be yours too! UNSAT", coordinated by USV Iasi.

#### Scientometrics data

[Google Scholar](#) / [Scopus](#) / [Web of Science](#) / [ORCID-ID](#)

#### Didactic areas

- Ethology;
- Animal Physiology;
- Animal Products Technology;
- Animal Husbandry Technology.

#### Research fields

- Study of Animal Behavior;
- Animal Physiology;
- Quality Control and Food Safety.