

I. LUCRĂRI PUBLICATE ÎN CALITATE DE AUTOR PRINCIPAL - 15:

COTATE/IDEXATE ISI

1. **Mădălina-Alexandra DAVIDESCU**, Șt. Creangă, R.M. Radu-Rusu, **2019** - *Research on Enzymatic Methods Used in the Validation of the Heat Treatment Processes Applied to Sour Cream, Raw Material for Butter*. Scientific Papers: Animal Science and Biotechnologies, Vol. 52 (1), ISI Proceedings. **(Premiu I)**
2. **Mădălina-Alexandra DAVIDESCU**, Grădinaru A.C., Creangă Șt., **2019** - *Endangered Romanian Cattle Breeds – Between Traditional Breeding and Genetic Conservation*. Proceedings of the International Scientific Congress “Life sciences, a challenge for the future”, Filodiritto Editore – Proceedings, Iasi, p. 339-349. **(Premiu I)**
3. **Mădălina Alexandra DAVIDESCU, Andrei C. Grădinaru, Șteofil Creangă** - *Genetic Markers in the Study of Threatened with Extinction Cattle Breeds*, **2020**. European Biotechnology Congress 2020, Journal homepage Biotechnology & Biotechnological Equipment, Vol. 35. p. 102. **I.F. 1.632. WOS: 000622161800001.**
4. **Mădălina Alexandra DAVIDESCU**, A.C. Grădinaru, Șt. Creangă, **2020** - *Genetic markers associations in endangered cattle breeds to resistance on environmental conditions*. 5th International Conference on Chemical Engineering. Book of Abstract, p. 76 (*acceptată spre publicare*).
5. **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.
6. **Madalina Alexandra DAVIDESCU**, Mitică Ciorpac, Șteofil Creanga, **2021** - *Highly effective method of DNA extraction from blood: a first step for analysis of genetic diversity of indigenous cattle breeds*, Scientific Papers. Series D. Animal Science (*acceptată spre publicare*).

(BDI)

7. **Mădălina Alexandra DAVIDESCU**, Mădescu Bianca Maria, Matei A.C., Creangă Șt., **2019** - The quality indicators of raw milk produced from a cattle farm in Iasi county. Annals of the University of Craiova, Vol. XXIV (LX), p. 360-366.
8. **Mădălina Alexandra DAVIDESCU**, Bianca Maria Mădescu, Andrei Cristian MATEI, Șteofil Creangă, **2020** - *Study On the phylogenetic analysis of endangered romanian cattle Breeds: Grey Steppe and Pinzgau*. The 19th International Conference “Life Sciences for Sustainable Development”, Book of Abstract, p. 262.
9. **Madalina Alexandra DAVIDESCU**, Bianca M. Mădescu, Andrei C. Matei, Ioana Poroșnicu, Andra S. Neculai-Văleanu, Mitică Ciorpac, Șteofil Creangă, **2020** - *Genetic Markers Used in Molecular Phylogeny Studies, Research on Endangered Cattle Breeds*. Scientific Papers Animal Science and Biotechnologies, Vol 53 (2), p. 84-87.
10. **Mădălina Alexandra DAVIDESCU**, C-tin Pascal, A.C. Grădinaru, D. Simeanu, V. Maciuc, Șt. Creangă, **2020** - *Analytical methods based on mass spectrometry used in genomic, proteomic and metabolomic studies*. Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie, Vol. 74, p. 10-14.
11. **Mădălina Alexandra DAVIDESCU**, Grădinaru C.A., Ilie E. Daniela, Ivancia Mihaela, Creangă Șt., **2020** – *Blood DNA extraction for genetic analysis in endangered Romanian Grey cattle*.

Scientific Papers- Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie, Vol. 75, p.119-122.

12. Mădălina Alexandra DAVIDESCU, Pascal C-tin, Ciorpac M., Mădescu M. Bianca, Neculai-Văleanu A. Sabina, Poroșnicu Ioana, Matei A.C., Creangă Șt., **2020** - *Analysis methods used in genomics research on cattle breeds*. Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie, vol. 75, p. 123-127.

13. Madalina Alexandra DAVIDESCU, Șteofil Creangă, Mădălina Elena Henea, Andrei Cristian Grădinaru, **2020** - *Agriculture and milk production in Romania - retrospectives and trends in the European context*. AAB Bioflux, Vol. 12, Issue 2, p. 58-66.

14. Mădălina Alexandra DAVIDESCU, Andrei C. Grădinaru, Constantin Pascal, Daniel Simeanu, Vasile Maciuc, Mihaela Ivancia, Șteofil Creanga, **2021** - *Analysis of the Mitochondrial Genome in Podolian Cattle Breeds*. Scientific Papers Animal Science and Biotechnologies. (acceptată spre publicare).

15. Madalina Alexandra DAVIDESCU, Mitică Ciorpac, Bianca Maria Mădescu, Ioana Poroșnicu, Șteofil Creangă, **2021** - *Analysis of the Genetic Diversity of Endangered Cattle Breeds Based on Studies of Genetic Markers*. Scientific Papers Animal Science and Biotechnologies (acceptată spre publicare).

II. LUCRĂRI PUBLICATE ÎN CALITATE DE COAUTOR - 24:

INDEXATE ISI

1. Andrei-Cristian MATEI, Nicolae BĂDILAȘ, **Mădălina-Alexandra DAVIDESCU**, Ioana POROSNICU, Bianca Maria MĂDESCU, **2020** - *Research on the impact of the adding the apple vinegar in ration of the heavy lambs and monitorizing the ruminal ph and average daily gain*. Scientific Papers. Series D. Animal Science, Vol. LXIII, Nr. 1, p. 156-160.

2. Ioana Poroșnicu, Roxana Rațu, **Mădălina Davidescu**, Bianca Mădescu, Andrei Matei, Șteofil Creangă, Marius Usturoi, **2020** - *Researches on the quality assessment of Mozzarella cheese for the safety of use*. Scientific Papers. Series D. Animal Science, Vol. LXIII, Nr. 2, p. 370-376.

3. Nicolae-Iulian Bădilaș, Andrei-Cristian Matei, Ioana Poroșnicu, Bianca-Maria Mădescu, **Mădălina-Alexandra Davidescu**, Benone Pășărin, **2020** - *Determination of the physico-chemical, microbiological and parasitological parameters of frozen fish, marketed by a commercial company from the northeast of Romania*. Scientific Papers. Series D. Animal Science, Vol. LXIII, Nr. 2, p. 501-506.

4. 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.

(ISI PROCEEDINGS)

5. Neculai-Văleanu Sabina, Ariton Adina-Mirela, Matei Andrei-Cristian, Mădescu Bianca-Maria, **Davidescu Mădălina-Alexandra**, Poroșnicu Ioana, Creangă Șteofil, **2019** - *Green Synthesis of Silver Nanoparticles Using Curcuma Longa Plant Extract and their Possible Applications*. PROCEEDINGS OF THE International Scientific Congress "Life sciences, a challenge for the future", Filodiritto Editore – Proceedings, Iasi, p. 288-293.

(BDI-Baze de date internaționale)

6. S.I. Borș, Șt. Creangă, D.L. Dascălu, Elena Ruginosu, **Mădălina Alexandra Davidescu**, Alina Borș, I. Ibănescu, **2017** - *În vitro production of embryos at research and development station for cattle breeding Dancu, Iasi – first bovine embryos produced in vitro in northeastern Romania*. Cercetări agronomice în Moldova, p-ISSN:0379-5837, e-ISSN: 2067-1865, Vol.4, p. 172.
7. Elena Ruginosu, S.I Borș, Ș. Creangă, D.L. Dascălu, **Mădălina Alexandra Davidescu**, **2017**- *Searches on the application of a method of induction and sincronization of estrus in cows postpartum based on two doses of GnRH and prostaglandin F2 α , with programmed insemination*, Lucrări Științifice Vol. 60, p. 47-56.
8. Sabina Andra Neculai-Văleanu, D. L. Dascălu., Adina Mirela Ariton, **Mădălina Alexandra Davidescu**, Elena Ruginosu, G. Nacu, Șt. Creangă, **2016** - *Dynamic of the sperm DNA integrity in frozwn-thawed semen from endangered Grey Steppe breed bulls*. Lucrări Științifice Seria Zootehnie, Vol. 66, p. 132-135.
9. Șt. Creangă, – C. Șonea, – D. Simeanu, – M. Gh. Doliș, – C. Cumpănășoiu, S.I. Borș, C. Radu, **Mădălina Alexandra Davidescu**, Ioana Crivei, Cătălina Sănduleanu, D.L. Dascălu, **2018** - *Research regarding the corporal development of young calves belonging to Grey steppe breed, as viable perspective for orientation of those breed to meat production*, Danubian Animal Genetic Resources, Vol. 3, p. 26-32.
10. D.L. Dascălu, Șt. Creangă, S.I. Borș, Elena Ruginosu, V. Vintilă, **Mădălina Alexandra Davidescu**, Cătălina Sănduleanu, Ioana Crivei – **2018** - *Conservation of the Grey steppe, endangered breed, a national priority for ensuring the genetic diversity of animal populations for scientific, economic, cultural and tourist purposes*. Simpozion Științific S.C.D.C.B. Tg. Mureș,
11. Ruginosu Elena, Creangă Șt., Dascălu D.L., **Mădălina Alexandra Davidescu**, Ioana Crivei, Cătălina Sanduleanu, Borș S.I., **2018** - *Preliminary results regarding estrus synchronization in postpartum dairy cows with GNRH analogue, prid – intravaginal device and pgf2 α , followed by artificial insemination at estrus detection*. Lucrări Științifice. Medicină Veterinară, Vol. 70 (23), p. 7-12.
12. Mădescu Bianca Maria, Lazăr Roxana, Creangă Șt., **Davidescu Mădălina Alexandra**, Matei A.C., Boișteanu P.C., **2019** - *Research on the evaluation of metabolic lipidic parameters for the “Romanian Spotted” cattle breed in different physiological states*, Annals of the University of Craiova, vol. XXIV (LX), p. 388-394.
13. Bianca-Maria Mădescu, A.C. Matei, Elena Ruginosu, **Mădălina-Alexandra Davidescu**, V. Vintilă, M. Amarandei, Șt. Creangă, **2019** - *Nutrigenomics, a new direction for dairy cows: A review*, Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie, Vol. 72, p. 67-76.
14. Bianca M. Mădescu, Roxana Lazăr, Șteofil Creangă, Andrei C. Matei, **Mădălina Alexandra Davidescu**, Paul C. Boișteanu, **2020** - *Research on the digestibility of the total mixed ration in the case of two breeds of cattle*. The 19th International Conference” Life Sciences for Sustainable Development”, Book of abstract, p. 265.
15. Bianca Maria Mădescu, Andra Sabina Văleanu, **Mădălina Alexandra Davidescu**, Ioana Poroșnicu, Andrei Cristian Matei, Șteofil Creangă, **2020** - *Research on the assessment and quality control of maize silage, produced and used in the Research-Development Station for Cattle Breeding Dancu, Iași*. Scientific Papers Animal Science and Biotechnologies, Vol 53 (2), p. 207-211.
16. Ioana Poroșnicu, Nicolae Bădilaș, Bianca Maria Mădescu, **Mădălina Alexandra Davidescu**, Andrei Cristian Matei, Andra Sabina Neculai-Văleanu, Șteofil Creangă, **2020** - *Research on the degree of fungal contamination of corn silage and corn grains*. Scientific Papers Animal Science and Biotechnologies, Vol 53 (2), p. 212-216.

17. Andrei Cristian Grădinaru, Oana Raluca Strugaru, **Madalina Alexandra Davidescu, 2020** - *Investigations on milk quality management by risk assessment within the HACCP system*. ABAH Bioflux, 2020, Vol. 12 (1), p. 20-25.
18. Andrei Cristian Grădinaru, **Madalina Alexandra Davidescu**, Ioan Valentin Petrescu-Mag, **2020** - *DNA methylation -a common denominator in transcriptional repression, genome imprinting, X-inactivation, and carcinogenesis*. Human & Veterinary Medicine International Journal of the Bioflux Society, Vol. 12 (4), p. 193-197.
19. Sabina A. Neculai-Văleanu, M. Ciorpac, **Mădălina Alexandra Davidescu**, Bianca M. Mădescu, Ioana Poroșnicu, A.C. Matei, Șt. Creangă, **2020** - *Heat shock proteins expression in association with thermal stress in cattle breeds*. Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie, Vol. 74, p. 8-9.
20. Poroșnicu Ioana, Mădescu Bianca-Maria, **Davidescu Mădălina Alexandra**, Bădilaș N.I., Matei A.C., Neculai-Văleanu Andra Sabina, Creangă Șt., **2020** - *General information on the influence of the genera aspergillus, penicillium and fusarium on plant substrates: a review*. Scientific Papers-Animal Science Series: Lucrări Științifice - Seria Zootehnie, (acceptată spre publicare).
21. Mădescu Bianca Maria, Lazăr Roxana, **Davidescu Mădălina Alexandra**, Poroșnicu Ioana, Andra-Sabina Neculai-Văleanu, Matei Andrei-Cristian, Boișteanu Paul Corneliu, **2020** - *Research on the peculiarities of digestion in ruminants*. Annals of the University of Craiova, Vol. XXV (LXI), p. 409-414.
22. Poroșnicu Ioana, Bădilaș Nicolae, Mădescu Bianca, **Davidescu Mădălina Alexandra**, Matei Andrei-Cristian, Neculai-Văleanu Andra-Sabina, Creangă Șteofil, **2020** - *Contamination with fungi and mycotoxins of some vegetal substrates used in animal feed*. Annals of the University of Craiova, Vol. XXV (LXI), p. 505-509.
23. Ioana Poroșnicu, Nicolae I. Bădilaș, **Mădălina Alexandra Davidescu**, Bianca M. Mădescu, Ioan Coman, **2021** - *Contamination of Plant Substrates Evaluated by Mycological and Mycotoxicological Investigations*. Scientific Papers: Animal Science and Biotechnologies, 2021, Vol. 54 (1), p. 143.149.
24. Bianca-Maria Mădescu, Roxana Lazăr, Mădălina-Alexandra Davidescu, Ioana Poroșnicu, Paul Corneliu Boișteanu, **2021** - *Research on hematological parameters in Aubrac cattle breed exploited on the conditions of Romania*. Scientific Papers: Animal Science and Biotechnologies, (acceptată spre publicare).

MEMBRĂ ÎN PROIECTE DE CERCETARE

1. **Program sectorial ADER 2015-2018, Contract nr. 5.2.2./30.10.2015 (2015-2018)**, “*Conservarea și prezervarea taurinelor pe cale de dispariție, respectiv rasa Sură de stepă în vederea asigurării biodiversității resurselor genetice a populațiilor de animale*”, Coordonator S.C.D.C.B. Dancu, Partener USAMV Iași;
2. **Program sectorial ADER 2015-2018, Contract 5.3.2./03.11.2015 (2015-2018)**, “*Cercetări privind intensivizarea procesului de reproducție la taurine prin biotehnologii de reproductive*”, Coordonator S.C.D.C.B. Dancu;
3. **Program sectorial ADER 2015-2018, Contract ADER nr. 7.2.1./03.11.2015 (2015-2018)**, “*Îmbunătățirea potențialului productiv în fermele de vaci pentru lapte din N-E României prin producerea de embrioni in vitro folosind donatoare de ovocite înalt productive și material seminal (sexat și nesexat) provenit de la tauri testați*”, Coordonator S.C.D.C.B. Dancu.