

Списък на научните трудове (публикации) на

доц. д-р Крум Владимирова Неделков, д-р

1. Публикации свързани с определяне хранителния състав на фуражите, бионаличност на протектирани аминокиселини и оптимизиране на дажбите за едри преживни.

1. **Nedelkov, K.** 2019. In situ Evaluation of Ruminal Degradability and Intestinal Digestibility of Sunflower Meal Compared to Soybean Meal. Iranian Journal of Applied Animal Science, 9(3): 395-400. http://www.iauajournals.ir/article_667455.html

IF₂₀₁₉ = N/A, Q4, SJR₂₀₁₉ = 0.170, Q4

2. Harper, M.T., J. Oh, A. Melgar, **K. Nedelkov**, S. Räisänen, X. Chen, C.M.M.R. Martins, M. Young, T.L. Ott, D.M. Kniffen, R.A. Fabin, A.N. Hristov, 2019. Production effects of feeding extruded soybean meal to early-lactation dairy cows. Journal of Dairy Science, 102: 8999–9016. <https://doi.org/10.3168/jds.2019-16551>

IF₂₀₁₉ = 3,333, Q1, SJR₂₀₁₉ = 1.440, Q1

3. **Nedelkov, K.**, N. Todorov, M. Simeonov, 2019. Determination of rumen degradability, intestinal digestibility and protein nutritional value of sunflower cake produced in Bulgaria. Archiva Zootechnica, 22(2): 12 – 21.

4. Räisänen, S. E. C. M. M. R. Martins, **K. Nedelkov**, J. Oh, M. T. Harper, A. Melgar, X. Chen, C. Paryse, R. A. Patton, M. Miura, A. N. Hristov. 2020. Bioavailability of rumen-protected methionine, lysine and histidine assessed by fecal amino acid excretion. Animal Feed Science and Technology, 268: 114595.

<https://doi.org/10.1016/j.anifeedsci.2020.114595>

IF₂₀₂₀ = 3,247, Q1, SJR₂₀₂₀ = 1,029, Q1

5. Räisänen, S. E., C. F. A. Lage, J. Oh, A. Melgar, **K. Nedelkov**, X. Chen, M. Miura, A. N. Hristov, 2021. Histidine dose-response effects on lactational performance and plasma amino acid concentrations in lactating dairy cows: 1. Metabolizable protein-adequate diet. Journal of Dairy Science, 104(9): 9902 – 9916.

<https://doi.org/10.3168/jds.2021-20188>

IF₂₀₂₁ = 4,225, Q1, SJR₂₀₂₁ = 1.215, Q1

6. **Nedelkov, K.**, Slavov, T., Cantalapiedra-Hijar, G., 2021. Ruminal degradability and intestinal digestibility of dm and cp in high-protein fraction from sunflower meal - a cheap source of dietary protein for ruminants. Advances in Animal and Veterinary Sciences, 9(7): 983 – 988. <https://doi.org/10.17582/journal.aavs/2021/9.7.983.988>

IF₂₀₂₁ = N/A, Q4, SJR₂₀₂₁ = 0.198, Q3

7. **Nedelkov, K.** 2023. A new approach for processing and use of sunflower meal. Bulgarian Journal of Agricultural Science, 29(2): 384 – 389.

IF₂₀₂₂ = N/A, Q4, SJR₂₀₂₂ = 0.216, Q3

8. **Nedelkov, K.**, 2023. In Situ ruminal degradability and intestinal digestibility of dry matter and crude protein of low-protein fraction from sunflower meal. *Животновъдни науки*, LX, 4: 36 – 41.

II. Публикации свързани с поведенческите реакции на дребни преживни по време на доилния процес.

9. Nedeva, I., T. Slavov, I. Varlyakov, V. Radev, D. Panayotov, **K. Nedelkov**, 2019. Behavior of Lacaune sheep in a milking parlour. *Bulgarian Journal of Agricultural Science*, 25: (Suppl. 3): 74-80.

IF₂₀₁₉ = N/A, Q4, SJR₂₀₁₉ = 0.191, Q3

III. Публикации свързани с влиянието на някои фуражни добавки и нивото на концентрирани фуражи в дажбите върху продуктивните показатели на преживни животни.

10. **Nedelkov, K.**, M. T. Harper, A. Melgar, X. Chen, S. Räisänen, C. M. M. R. Martins, J. Faugeron, E. H. Wall, and A. N. Hristov, 2019. Acceptance of flavored concentrate premixes by young ruminants following a short-term exposure. *Journal of Dairy Science*, 102(1): 388–394. <https://doi.org/10.3168/jds.2018-15400>

IF₂₀₁₉ = 3,333, Q1, SJR₂₀₁₉ = 1.440, Q1

11. Chen, X. J., **K. Nedelkov**, J. Oh, M.T. Harper, E.H. Wall, T.L. Felix, A.N. Hristov, 2019. Effect of a blend of artificial sweetener and capsicum on productive performance and blood chemistry in growing lambs. *Animal Feed Science and Technology*, 258: 114308. <https://doi.org/10.1016/j.anifeedsci.2019.114308>

IF₂₀₁₉ = 2,582, Q1, SJR₂₀₁₉ = 1.121, Q1

12. **Nedelkov, K.**, X.J. Chen, C.M.M.R. Martins, A. Melgar, M.T. Harper, S. Räisänen, J. Oh, T.L. Felix, E. Wall, A.N. Hristov, 2020. Alternative selenium supplement for sheep. *Animal Feed Science and Technology*, 261: 114390. <https://doi.org/10.1016/j.anifeedsci.2020.114390>

IF₂₀₂₀ = 3,247, Q1, SJR₂₀₂₀ = 1.029, Q1

13. Chishti, G., I.J. Salfer, **K. Nedelkov**, and T. L. Felix, 2020. Impacts of time fed concentrate-based diets on plasma metabolites, rumen histology, and mRNA expression of hepatic enzymes of wethers. *Animals*, 10: 686. <https://doi.org/10.3390/ani10040686>

IF₂₀₂₀ = 2,752, Q1, SJR₂₀₂₀ = 0,584, Q1

14. Angelova, T., **K. Nedelkov**, D. Yordanova, V. Karabashev, J. Krastanov, 2021. Effects of liquid organic mineral complex (MultiMix®) on milk yield, composition and cheesemaking capacity of milk in dairy cows. *Agricultural Science and Technology*, 13(2): 152-156. <https://doi.org/10.15547/ast.2021.02.025>

15. Oh, J., M. T. Harper, A. Melgar, S. Räisänen, X. Chen, **K. Nedelkov**, M. Fetter, T. Ott, E. H. Wall, A. N. Hristov, 2021. Dietary supplementation with rumen-protected capsiicum during the transition period improves the metabolic status of dairy cows. Journal of Dairy Science, 104(11): 11609-11620. <https://doi.org/10.3168/jds.2020-19892>

IF₂₀₂₁ = 4,225, Q1, SJR₂₀₂₁ = 1.215, Q1

16. Martins,L.F., J. Oh, M. Harper, A. Melgar, S. E. Räisänen, X. Chen, **K. Nedelkov**, T. P. Karnezos, and A. N. Hristov, 2022. Effects of an exogenous enzyme preparation extracted from a mixed culture of Aspergillus spp. on lactational performance, metabolism, and digestibility in primiparous and multiparous cow. Journal of Dairy Science, 105(9): 7344-7353. <https://doi.org/10.3168/jds.2022-21990>

IF₂₀₂₂ = 3,500, Q1, SJR₂₀₂₂ = 1.179, Q1

IV. Публикации свързани с използването на инхибитори за намаляване на метановите емисии при едри преживни.

17. Melgar, A., K. C. Welter, **K. Nedelkov**, C. M. M. R. Martins, M. T. Harper, J. Oh, S. E. Räisänen, X. Chen, S. F. Cueva, S. Duval, and A. N. Hristov, 2020. Dose-response effect of 3-nitrooxypropanol on enteric methane emissions in dairy cows. Journal of Dairy Science, 103(6): 6145-6156. <https://doi.org/10.3168/jds.2019-17840>

IF₂₀₂₀ = 4,034, Q1, SJR₂₀₂₀ = 1.483, Q1

18. Melgar, A., **K. Nedelkov**, C.M.M.R. Martins, K.C. Welter, X. Chen, S.E. Räisänen, M.T. Harper, J. Oh, S. Duval, A.N. Hristov, 2020. Short-term effect of 3-nitrooxypropanol on feed dry matter intake in lactating dairy cows. Journal of Dairy Science 103(12): 11496-11502. <https://doi.org/10.3168/jds.2020-18331>

IF₂₀₂₀ = 4,034, Q1, SJR₂₀₂₀ = 1.483, Q1

19. Melgar, A., C.F.A. Lage, **K. Nedelkov**, S.E. Räisänen, H. Stefenoni, M.E. Fetter, X. Chen, J. Oh, S. Duval, M. Kindermann, N.D. Walker, A.N. Hristov, 2021. Enteric methane emission, milk production, and composition of dairy cows fed 3-nitrooxypropanol. Journal of Dairy Science, 104(1): 357-366. <https://doi.org/10.3168/jds.2020-18908>

IF₂₀₂₁ = 4,225, Q1, SJR₂₀₂₁ = 1.215, Q1

20. Angelova, T., J. Krastanov, D. Yordanova, M. Mihaylova, **K. Nedelkov**, 2023. Inhibitors of methanogenesis. Животновъдни науки, LX, 3: 28-36.

21. **Nedelkov, K.**, T. Angelova, D. Yordanova, J. Krastanov, M. Mihaylova, 2023. Feeding strategies to reduce methane emissions. Bulgarian Journal of Agricultural Science, 30(1): /под печат/

IF₂₀₂₂ = N/A, Q4, SJR₂₀₂₂ = 0.248, Q3

V. Публикации свързани с изпитване влиянието на различните нива на изсушен спиртоварен остатък (DDGS) в смеските на подрастващи прасета върху смилаността на хранителните вещества.

22. Ganchev, G., A. Ilchev, **K. Nedelkov**, 2020. Influence of different inclusion levels of corn dried distillers grains with solubles (DDGS) in the diet of growing pigs on the digestibility of nutrients. Bulgarian Journal of Agricultural Science, 26(Suppl. 1): 83-89.

IF₂₀₂₀ = N/A, Q4, SJR₂₀₂₀ = 0.248, Q3

23. Ganchev, G., A. Ilchev, **K. Nedelkov**, 2022. Influence of different inclusion levels of wheat dried distiller's grains with soluble (DDGS) in the diet of growing pigs on the digestibility of nutrients. Bulgarian Journal of Agricultural Science, 28(3): 510-515.

IF₂₀₂₂ = N/A, Q4, SJR₂₀₂₂ = 0.216, Q3

VI. Публикации сравняващи различни техники за вземане на проби и оценка на ферментационните процеси влияещи върху микрофлората в търбуха на млечни крави.

24. Lage, C. F. A., S. E. Räisänen, A. Melgar, **K. Nedelkov**, X. Chen, J. Oh, M. E. Fetter, N. Indugu, J. S. Bender, B. Vecchiarelli, M. L. Hennessy, D. Pitta, A. N. Hristov, 2020. Comparison of Two Sampling Techniques for Evaluating Ruminant Fermentation and Microbiota in the Planktonic Phase of Rumen Digesta in Dairy Cows. Frontiers in Microbiology, 11, Article 3330. <https://doi.org/10.3389/fmicb.2020.618032>

IF₂₀₂₀ = 5,640, Q1, SJR₂₀₂₀ = 1.701, Q1

25. Kaplan-Shabtai, V., N. Indugu, M. L. Hennessy, B. Vecchiarelli, J. S. Bender, D. Stefanovski, C. F. A. Lage, S. E. Räisänen, A. Melgar, **K. Nedelkov**, M. E. Fetter, A. Fernandez, A. Spitzer, A. N. Hristov, D. W. Pitta, 2021. Using Structural Equation Modeling to Understand Interactions Between Bacterial and Archaeal Populations and Volatile Fatty Acid Proportions in the Rumen. Frontiers in Microbiology, 12, Article 611951. <https://doi.org/10.3389/fmicb.2021.611951>

IF₂₀₂₁ = 6,064, Q1, SJR₂₀₂₁ = 1.314, Q1

26. Indugu, N., M. Hennessy, V. S. Kaplan-Shabtai, C. F. de Assis Lage, S. E. Räisänen, A. Melgar, **K. Nedelkov**, X. Chen, J. Oh, B. Vecchiarelli, J. S. Bender, A. N. Hristov, and D. W. Pitta, 2021. Comparing noninvasive sampling techniques with standard cannula sampling method for ruminal microbial analysis. JDS Communications, 2(6): 329-333. <https://doi.org/10.3168/jds.2020-18908>

IF₂₀₂₁ = N/A

VII. Монография.

27. **Неделков, К.**, 2023. Селенът и ролята му при храненето на животните. ISBN: 978-954-305-658-3, ИК „КОТА“, Стара Загора.

VIII. Доклади (резюмета) от научни конференции публикувани в неореферирани списания с научно рецензиране или публикувани в редактирани колективни толове.

28. Räsänen, S.E., C. F. A. Lage, J. Oh, A. Melgar, **K. Nedelkov**, X. Chen, M. Miura, C. Parys, and A. N. Hristov, 2019. Histidine dose-response effects on lactational performance and plasma amino acid concentrations in lactating dairy cows. *Journal of Dairy Science*, 102(Suppl. 1): 120–120. (В пълен текст – публикация 5)
29. Oh, J., M. T. Harper, A. Melgar, S. Räsänen, X. Chen, **K. Nedelkov**, E. H. Wall, and A. N. Hristov, 2019. Effects of rumen-protected capsicum alone or in a combination with an artificial sweetener on productivity and fat mobilization in early lactation dairy cows. *Journal of Dairy Science*, 102(Suppl. 1): 427–427. (В пълен текст – публикация 15)
30. Oh, J., M. T. Harper, A. Melgar, S. E. Räsänen, X. Chen, **K. Nedelkov**, D. M. Paulus Compart, and A. N. Hristov, 2019. Effect of an enzyme extract from *Aspergillus oryzae* and *Aspergillus Niger* on milk production, blood metabolites, and nutrient digestibility in dairy cows. *Journal of Dairy Science*, 102(Suppl. 1): 170–171. (В пълен текст – публикация 16)
31. Melgar, A., C. F. A. Lage, **K. Nedelkov**, S. E. Räsänen, H. Stefenoni, M. E. Young, X. Chen, J. Oh, S. Duval, M. Kindermann, N. D. Walker, and A. N. Hristov, 2019. Effects of 3-nitrooxypropanol on enteric methane emission and lactational performance of dairy cows. *Journal of Dairy Science*, 102(Suppl. 1): 428–428. (В пълен текст – публикация 19)
32. **Nedelkov, K.**, X. Chen, M. E. Young, S. Räsänen, C. F. A. Lage, A. Melgar, M. T. Harper, J. Oh, E. H. Wall, and A.N. Hristov, 2019. Effect of a novel selenium product on growth performance of lambs. *Journal of Dairy Science*, 102(Suppl. 1): 248–248.
33. Lage, C.F.A., S. E.Räsänen, A. Melgar, **K. Nedelkov**, X. Chen, J. Oh, J. Bender, B. Vecchiarelli, D. Pitta, M. E. Young, and A. N. Hristov, 2019. Comparison of two sampling techniques for evaluating ruminal fermentation in dairy cows. *Journal of Dairy Science*, 102(Suppl. 1): 380–380. (В пълен текст – публикация 24)
34. Pitta, D.W., C. F. A. Lage, J. S. Bender, N. Indugu, M. L. Hennessy, V. K. Shabtai, B. Vecchiarelli, A. Fernandez, A. Spitzer, S. E. Raisanen, A. Melgar, **K. Nedelkov**, X. Chen, J. Oh, and A. N. Hristov, 2019. Synergistic associations of bacteria and archaea in DNA and cDNA components of rumen samples collected using stomach tube and cannula methods in dairy cows. *Journal of Dairy Science*, 102 (Suppl. 1): ii (В пълен текст – публикация 25)
35. **Nedelkov, K.**, S. E. Räsänen, X. Chen, M. T. Harper, A. Melgar, J. Oh, D. M. Paulus Compart, and A. N. Hristov, 2019. Effect of enzyme extracts from *Aspergillus oryzae* and *Aspergillus Niger* on rumen bacterial and fungal diversity and fermentation in vitro. *Journal of Dairy Science*, 102(Suppl. 1): 378–379.
36. Pitta, D., C. F. A. Lage, S. Räsänen, A. Melgar, **K. Nedelkov**, X. Chen, J. Oh, N. Indugu, B. Vecchiarelli, J. Bender, and A. Hristov, 2019. Comparison of noninvasive ruminal sampling techniques to standard cannula sampling method for ruminal microbial analysis. *Journal of Dairy Science*, 102(Suppl. 1): 408–408. (В пълен текст – публикация 26)

37. **Nedelkov, K., 2021.** In situ evaluation of the ruminal and intestinal digestibility of physically treated rapeseed meal /Wisn Raps/. 100 years Higher Agricultural Education in Bulgaria. 27 May 2021, Stara Zagora, Book of Abstracts, p. 13.
38. Binev, R., **K. Nedelkov**, A. Rusenov, K. Stoyanchev, L. Lazarov, Ts. Hristov, T. Slavov, 2021. Hematological and biochemical reference values of mature domestic donkeys in Bulgaria. 100 years Higher Agricultural Education in Bulgaria. 27 May 2021, Stara Zagora, Book of Abstracts, p. 33.
39. Binev, R., **K. Nedelkov**, A. Rusenov, K. Stoyanchev, L. Lazarov, Ts. Hristov, T. Slavov, 2021. Reference ranges of certain paraclinical parameters in domestic donkeys in Bulgaria. 100 years Higher Agricultural Education in Bulgaria. 27 May 2021, Stara Zagora, Book of Abstracts, p. 34.
40. Angelova, T., **K. Nedelkov**, J. Krastanov, D. Yordanova, S. Georgieva, 2021. Influence of milk fat-to-protein ratio on reproductive performance of Holstein dairy cows. 100 years Higher Agricultural Education in Bulgaria. 27 May 2021, Stara Zagora, Book of Abstracts, p. 36.
41. Cantalapiedra-Hijar, G., **K. Nedelkov**, P. Crosson, M. McGee, 2022. Between-animal variability in feed efficiency of beef cattle is affected by feeding level, Animal - science proceedings, Vol. 13(Issue 3): 357-358.<https://doi.org/10.1016/j.anscip.2022.07.103>

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Изготвил: 
/Крум Неделков/