

PERSONAL INFORMATION

Zehra Hajrulai Musliu



 Vukovarska 5/1/14, Skopje 1000, N. Macedonia

  071 35 94 70

 [zhajrulai@fvm.ukim.edu.mk](mailto:zhajrulai@fvm.ukim.edu.mk)

POSSITION

Full Professor

2015-now	Faculty of Veterinary Medicine-Skopje (full prof)
2011-2015	Faculty of Veterinary Medicine-Skopje (assoc. prof.)
2007-2011	Faculty of Veterinary Medicine-Skopje (assist. prof)
2002-2007	Faculty of Veterinary Medicine-Skopje (Scientific associate)
1996-2001	Veterinary Institute, Skopje (research assistant)

WORK EXPERIENCE

---

EDUCATION

1996-2001	PhD - Faculty of Veterinary Medicine - Skopje, "Ss. Cyril and Methodius University" in Skopje
1989-1992	Master of Science (MSc) Postgraduate studies in chemistry-biochemistry University of Zagreb, Medical Faculty
(1984-1988)	Faculty of mathematics and natural sciences (Chemistry) University of Pristina, Kosovo

TRAINING

---

21-25.08.2023	Third Research Coordination Meeting (RCM) for the Coordinated Research Project D53043 'Depletion of Veterinary Pharmaceuticals and Radiometric Analysis of their Residues in Animal Matrices' 21-25 August Ohrid, North Macedonia
8-12-05.2023	Final RCM, Vienna, Austria-CRP D52041 (Integrated Radiometric and Complementary Techniques for Mixed Contaminants and Residues in Foods)
20-22.03.2023	Training course for LC-Q/TOF, Faculty of Veterinary Medicine-Skopje, R. N. Macedonia
15.03.2023	Meeting of the national working group for the fight against poisons within the Balkan Detox LIFE project, Hotel Continental, Skopje, R. N. Macedonia
	Training course TriCarb theory and operation – Basics of LSC, counting interferences, quench and quench correction, sample loading, assay definition,

- 15-16.12.2022 Skopje, Faculty of Veterinary Medicine-Skopje, R. N. Macedonia
- 08.12.2022 EU regulation 2021/808: PART II First testimonies towards practical cases, School for Advanced Residue Analysis in Food TRAINING PROGRAMME (SARAF), on line
- 07-09.11.2022 *EURL annual meeting and workshop*, Wageningen Food Safety Research, Wageningen, The Netherlands EURL
- 3-7.10.2022 Wildlife crime academy “Level II Investigation of wildlife crime” – Specialization in forensic and police investigation of Wildlife crime, Cazorla, Spain
- 22-25.09.2022 9th International Scientific Meeting, Days of veterinary medicine 2022, 22-25 September 2022, Ohrid, R. N. Macedonia
- 07-08.07.2022 Workshop for the preparation of operational protocols for dealing with cases of poisoning of wild animals within the Balkan Detox LIFE project (07.07.- 08.07.2022), Hotel Romantik, Veles, R. N. Macedonia
- 10-12-05.2022 Wildlife crime academy’s level I basic course „Specialisation in Forensic and Police Investigation of Wildlife crime “,Huelva, Spain
- 01.03.2022 Commission Implementing Regulation (EU) 2021/808 of 22 March 2021 on the performance of analytical methods for residues of pharmacologically active substances used in food-producing animals and on the interpretation of results. School for Advanced Residue Analysis in Food TRAINING PROGRAMME (SARAF), on line
- 17.12.2021 Evaluation of measurement uncertainty of analytical test methods in accordance with the requirements of the standard SRPS ISO / IEC 17025: 2017, Association of Engineers and Technicians of Serbia, Belgrade, Serbia
- 16-17.11.2021 EURL annual meeting and workshop, Held online at Wageningen Food Safety Research, Wageningen, The Netherlands
- 29.06-01.07.2021 EURL-Workshop 2021 and ‘Special Workshop’ on PT NSAI1120, EURL Berlin, on-line
- 31.05.-01.06. 2021 EURL annual meeting and workshop, Rikilt Wageningen University & Research, The Netherlands, on-line
- 27.02. 2020 The role of measurement uncertainty in the statement of compliance-application of decision rules - in accordance with the requirements of the standard ISO / IEC 17025: 2017, Association of Engineers and Technicians of Serbia, Belgrade, Serbia
- 13-17.01.2020 Certificate of education: MassLynx – LC-MS/MS method development. Labtim. Faculty of Veterinary Medicine, Skopje, R. Macedonia
- 25-27.09.2019 Workshop of the EURL for pesticide residues, Technical University, Denmark

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Serbian, Croatian, Albanian, Turkish	C1	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Communication skills** • good communication skills gained through my experience as a head of laboratory

**Organisational / managerial skills** • good organisational skills gained through work as a manager of laboratory  
**Job-related skills** • Head of the laboratory

**Computer skills** • Microsoft Office™ tools

**Other skills** • Technical assessor at Institute for Accreditation of North Macedonia for testing laboratories according to ISO 17025

**Driving licence** • B

**ADDITIONAL INFORMATION**

- 2011-now Member of the Review Commission for selection and pre-selection in professional titles in the field of museum activity
- 2011- NOW Technical and leading assessor at Institute for Accreditation of North Macedonia for testing laboratories according to ISO 17025
- 2017-2019 Member of the Board for Cooperation and Public Trust
- 2018-2023 Reviewer of reported bilateral projects between R. Macedonia and R. Austria, for the period 2018-2020, Ministry of education and science, RM
- 2021 Reviewer of reported national projects, 2021, Ministry of education and science, R.N. Macedonia
- 2015 Member of the International Scientific Journal Macedonian Veterinary Review
- 2011-now Faculty's CEEPUS Coordinator
- 2017-2021 Head of the Institute of Reproduction and Biomedicine at the Faculty of Veterinary Medicine
- 2018, 2022 Editor of the Book of abstracts of the 5th International Vet-Istanbul group congress & 8th International scientific meeting "Days of veterinary medicine – 2018" (ISBN 978-9989-774-31-7) and 9th International scientific meeting "Days of veterinary medicine – 2022"
- 2021-2024 Member of the Faculty's Committee for International cooperation
- 2021 Head of Specialist professional Studies in Food Safety and Quality
- 2023 Member of the Scientific Committee of the International Congress on Biological and Health Sciences Aksaray, Turkey 2021,2022, 2023

## Publications

- Gjylai Alija, Zehra Hajrullai-Musliu, Risto Uzunov, Agim Shabani. Analytical procedure for the determination of lincomycin and tylosin antibiotic residues in milk by liquid chromatography-coupled tandem mass spectrometry (LC–MS/MS). *JOURNAL OF NATURAL SCIENCES AND MATHEMATICS OF UT*, 4:7-8, 2019, pp.41-48
- E. Dimitrieska-Stojkovicj, A. Angeleska, B. Stojanovska-Dimzoska, Z. Hajrulai-Musliu, D. Koceva, R. Uzunov, G. Ilievska 1, G. Stojković, D. Jankuloski. Acrylamide Content in Food Commodities Consumed in North Macedonia and Its Risk Assessment in the Population. *Journal of Food Quality and Hazards Control* 6 (2019) 101-108. DOI: 10.18502/jfqhc.6.3.1383
- Mila Arapcheska, Jovanka Tuteska, Zehra Hajrulai-Musliu, Risto Uzunov. Comparative analysis of conjugated linoleic acid content in cow, sheep and goat milk. *Proceedings of the 12th International Scientific and Professional Conference WITH FOOD TO HEALTH*, October 24th and 25th 2019, Osijek, Croatia. p. 105-112
- Mila Arapcheska, Jovanka Tuteska, Zehra Hajrulai-Musliu, Risto Uzunov. Comparative analysis of fatty acids composition between grass and lucerne forage. *Proceedings of International Biological, Agricultural and Life Science Congress* November 7-8, 2019 Lviv, Ukrain. p.504-508
- Mila Arapcheska, Jovanka Tuteska, Zehra Hajrulai-Musliu, Risto Uzunov. Health benefits of conjugated linoleic acid. *Proceedings of International Biological, Agricultural and Life Science Congress* November 7-8, 2019 Lviv, Ukrain. p.509-515
- Gjylai Alija, Zehra Hajrullai Musliu, Risto Uzunov, Agim Shabani, Dorentina Bexheti. The confirmation and quantification of tetracycline antibiotic residues in milk by liquid chromatography tandem mass spectrometry (LC–MS/MS). *Acta Medica Balcanica*, 4:7-8, 2019, 48-54.
- Gjylai Alija, Zehra Hajrulai-Musliu, Risto Uzunov. Development and validation of confirmatory LC–MS/MS method for multi-residue analysis of antibiotic drugs in bovine milk. *SN Appl. Sci.* 2, 1563 (2020). <https://doi.org/10.1007/s42452-020-03361-2>
- Vasilev D, Dimovska N, Hajrulai-Musliu Z, Teodorović V, Nikolić A, Karabasil N, Dimitrijević M, Mirilović M. Fatty acid profile as a discriminatory tool for the origin of lamb muscle and adipose tissue from different pastoral grazing areas in North Macedonia-A short communication. *Meat science*. 2020 Apr;162:108020.
- Gjylai Alija, Zehra H.Musliu, Risto Uzunov, Arlinda H.Zajmi, Nexhibe Nuhii. Mbetjet e antibiotikëve në qumësht: rrezik i mundshëm për shëndetin e njeirut. *Medicus*. UDC 61 Vol · 25 (3) · 2020. pp. 435-440.
- Gjylai Alija, Zehra Hajrullai-Musliu, Risto Uzunov, Sihana Ahmeti Lika, Drita Havziu. Determination of cephalosporin antibiotic residues in milk using liquid chromatography – tandem mass spectrometry (LC – MS/MS) method. *Acta Medica Balcanica*. Vol. 5, no. 9-10, 2020, p. 39-45. UDC: 637.12.047:615.33.074
- Gjylai Alija, Zehra Hajrullai-Musliu, Risto Uzunov, Drita Havziu, Arlinda Haxhiu-Zajmi, Edita Alili-Idrizi, Agim Shabani. Determination of fluoroquinolone antibacterial residues in milk by LC-MS/MS method. Short communication. *Macedonian Pharmaceutical Bulletin*, 66 (Suppl 1) 177 - 178 (2020). DOI: 10.33320/maced.pharm.bull.2020.66.03.088
- Biljana Stojanovska-Dimzoska, Elizabeta Dimitrieska-Stojkovic, Zehra Hajrulai-Musliu, Risto Uzunov, Aleksandra Angeleska, Dean Jankuloski, Katerina Blagoevska. Determination of aflatoxins and ochratoxin a in animal liver using HPLC-FD method with immunoaffinity column clean-up. *Mac Vet Rev* 2021; 44 (2): 119-127. 10.2478/macvetrev-2021-0017
- Erhan Sulejmani, Zehra Hajrulai Musliu, Risto Uzunov. NORTH MACEDONIAN forest honey: a study of the hydroxymethylfurfural, sugar profile and physical quality parameters. *International Journal of food technology and nutrition*, vol. 4, no. 7/8, 2021. Pp. 35-43.
- Biljana Trajkovska, Ljupche Kochoski, Kiro Petrovski, Gordana Dimitrovska, Zehra Hajrulai-Musliu, Risto Uzunov, Vladimir Petkov. Impact of mammary gland infective status on the concentration of lactoferrin in cow's milk. Original scientific paper UDC 637.12.045. *Journal of Hygienic Engineering and Design*. Vol. 36. Pp.91-95
- Behrami E, Xhaxhiu K, Dragusha B, Berisha A, Hajrulai-Musliu Z, Reka A, Andoni A, Hamiti X, Drushku S. THEORETICAL AND PRACTICAL COMPARATIVE STUDY ON THE USE OF CLAYS FOR THE TREATMENT OF WASTEWATER CONTAMINATED WITH PESTICIDES. *International Journal of Ecosystems & Ecology Sciences*. 2021 May 1;11(3).
- Behrami E, Xhaxhiu K, Dragusha B, Reka A, Hajrulai-Musliu Z, Berisha A, Andoni A, Hamiti X, Drushku S. STUDY OF ABSORPTION AND DESORPTION OF BENLAXYL FROM NATURAL AND ACTIVATED BRARI AND DARDHA CLAY. *International Journal of Ecosystems & Ecology Sciences*. 2021 May 1;11(3).
- Zehra Hajrulai-Musliu, Risto Uzunov, Stefan Jovanov, Dean Jankuloski, Velimir Stojkovski, Lazo Pendovski, James Jacob Sasanya. A new LC–MS/MS method for multiple residues/contaminants in bovine meat. *BMC Chemistry* (2021) 15:62. <https://doi.org/10.1186/s13065-021-00788-5>
- Biljana Trajkovska, Ljupche Kochoski, Gordana Dimitrovska, Zehra Hajrulai-Musliu, Risto Uzunov, Vladimir Petkov, Filip Davkov. Changes in the lactoferrin concentration at drying off period. *Horizons International Scientific Journal Series B*, (2021), 9:83-90
- Angeleska, A., Crceva-Nikolovska, R., Dimitrieska-Stojkovicj, E., Hajrulai-Musliu, Z., Stojanovska-Dimzoska, B., & Angelovska, A. (2022). Radionuclide contamination and nutritional evaluation of the wheat mostly used in the Republic of North Macedonia. *Agro-knowledge Journal*.

- Angeleska A, Stojkovik ED, Musliu ZH, Dimzoska BS, Esmerov I, Angelovska A. ASSESSMENT OF RADIOLOGICAL HAZARD FOR VARIOUS FOOD COMMONLY USED IN REPUBLIC OF NORTH MACEDONIA. *Journal of Agriculture and Plant Sciences*. 2022;20(2):9-14.
- Angelovska, Ana, Aleksandra Angeleska, Katerina Blagoevska, Zehra Hajrulai Musliu, and Radmila Chrcheva Nikolovska. "EXAMINATION OF RADIOACTIVITY AND PRESENCE OF ADDITIVES IN WINES FROM TIKVEŠ REGION." *Journal of Agriculture & Plant Sciences* 20, no. 1 (2022).
- Zehra Hajrulai-Musliu, Risto Uzunov, Aleksandra Angelevska, Vasilka Popovska - Trenevaska, Mila Arapcheska, Elizabeta Dimitrieska-Stojkovikj. Determination of milk fat adulteration in sour cream with vegetable oils by GC-FID method. *Journal of Hygienic Engineering and Design*. (2022). Vol.37, pp.160-165
- Zehra Hajrulai-Musliu, Risto Uzunov, Stefan Jovanov, Maksud Kerluku, Dean Jankuloski, Velimir Stojkovski, Lazo Pendovski, James Jacob Sasanya. Determination of veterinary drug residues, mycotoxins, and pesticide residues in bovine milk by liquid chromatography electrospray ionisation–tandem mass spectrometry. *Journal of Veterinary Research* 66, 2022. DOI: 10.2478/jvetres-2022-0027
- Biljana Stojanovska Dimzoska, Zehra Hajrulai Musliu, Risto Uzunov, Aleksandra Angeleska, Katerina Blagoevska, Radmila Crceva Nikolovska, Gordana Ilievska, Elizabeta Dimitrieska Stojkovikj. Application of reliable cost-effective strategy for analysis of mycotoxins in corn-based foods with HPLC-FLD after multi-toxin immunoaffinity clean-up. *Macedonian Journal of Chemistry and Chemical Engineering*, 41(1), 77–88. <https://doi.org/10.20450/mjccce.2022.2422>
- Shabani L, Beadini S, Beadini N, Hajrullai-Musliu Z. Analysis of the fatty acid content of *Sideritis scardica* Gris. Using GC-FID. *Thalassia Salentina*. 2022 Feb 9;44:147-54.
- Asma, S.T.; Acaroz, U.; Imre, K.; Morar, A.; Shah, S.R.A.; Hussain, S.Z.; Arslan-Acaroz, D.; Demirbas, H.; Hajrulai-Musliu, Z.; Istanbulgil, F.R.; et al. Natural Products/Bioactive Compounds as a Source of Anticancer Drugs. *Cancers* **2022**, *14*, 6203. <https://doi.org/10.3390/cancers14246203>
- Zehra Hajrulai-Musliu, Risto Uzunov, Maksud Krluku, Aleksandra Angeleska, Elizabeta Dimitrieska-Stojkovikj, James Jacob Sasanya. Multi-class, Multi-residue LC-MS/MS Method for Veterinary Drug Residues, Mycotoxins and Pesticides in Urine. *Second International Congress on Biological and Health Sciences. Proceedings Book*, 24-27.02.2022. pp.165-187
- Biljana Trajkovska, Ljupche Kochoski, Gordana Dimitrovska, Zehra Hajrulai-Musliu, Risto Uzunov, Vladimir Petkov, Prarabdh C. Badgujar. Changes in the lactoferrin concentration in the bovine colostrum during postpartum period. *Mac Vet Rev* 2022; 45 (2): i – ix. doi:10.2478/macvetrev-2022-0026
- Sulejmani, E., Ahmeti, B. i Musliu, Z.H. (2023). Profile of fatty acid and pesticide residues of cream and yoghurt butter during storage. *Mljekarstvo*, 73 (1), 12-21. <https://doi.org/10.15567/mljekarstvo.2023.0102>
- Zehra Hajrulai-Musliu, Risto Uzunov, Stefan Jovanov, Dea Musliu, Elizabeta Dimitrieska-Stojkovikj, Biljana Stojanovska-Dimzoska, Aleksandra Angeleska, Velimir Stojkovski, James Jacob Sasanya. Multi-class/residue method for determination of veterinary drug residues, mycotoxins and pesticide in urine using LC-MS/MS technique. *BMC Veterinary Research*, 19, Article number: 156 (2023). <https://doi.org/10.1186/s12917-023-03720-2>
- Kerluku M, Ratkova Manovska M, Prodanov M, Stojanovska-Dimzoska B, Hajrulai-Musliu Z, Jankuloski D, Blagoevska K. Phenotypic and Genotypic Analysis of Antimicrobial Resistance of Commensal *Escherichia Coli* from Dairy Cows' Feces. *Processes*. 2023 Jul;11(7):1929.
- Stojkovski, Mila Arapcheska, Dea Musliu, James Jacob Sasanya. Determination of Multi-Class Antimicrobial Residues and Antimicrobial Resistance in Cow Milk and Feces Samples during Withdrawal Period. *Animals* 2023, 13(23), 3603; <https://doi.org/10.3390/ani13233603>

## Projects

- Integrated Radiometric and Complementary Techniques for Mixed Contaminants and Residues in Food”, IAEA, 17.03.2017-16.03.2022 Coordinator
- Reviving of Farriery, Disappearing profession; Erasmus +, 2018-2020 researcher
- Assessment of contamination of certain foods with acrylamide as a product of the Maillard reaction and evaluation of certain procedures for its education in heat-treated potato products. University „Ss. Cyril and Methodius” Skopje, Macedonia, 2018-2019 researcher
- Antimicrobial resistance in isolates of commensal *Escherichia coli* in the Republic of North Macedonia, Project financed by FVMS, (2020-2021) researcher
- Depletion of Veterinary Pharmaceuticals and Radiometric Analysis of their Residues in Animal Matrices (D52043), IAEA, 03.03.2020-01.6.2026 Coordinator
- Digital Education in Veterinary Studies. Erasmus+, 01.03.2021-31.05.2021 researcher
- Development and validation of multi-residual and multi-class analytical methods for determination of veterinary drug residues and contaminants in food of animal origin using isotopically marked internal standards and application of the LC-Q / TOF technique. 10.2021-10.2023. Ministry of education and science, Republic of North Macedonia Coordinator
- EU-funded Twinning project “Further support to the implementation of the National Qualifications Framework” MK IPA 17 SO 01 21 (2021-2023)
-

## Conferences

- A. Angeleska, E. Dimitrieska-Stojkovic, R. Crceva-Nikolovska, Z. Hajruai-Musliu, B. Stojanovska-Dimzoska, S. Bogoevski, B. Boskovski (2018) Distribution and origin of some radionuclides into corn (as animal nutrition) and soil samples, from diferent locations in the Skopje valley. International Scientific Conference GREDIT 2018, Book of abstracts, pp. 50.
- Zehra Hajrulai-Musliu, Velimir Stojkovski, Risto Uzunov, Vangelica Enimiteva, Stefan Jovanov, Elizabeta Dimitrieska-Stojkovic, Biljana Stojanovska-Dimzoska, Dean Jankuloski (2018) Honey sugars analysis by HPLC-RID method. Book of abstracts of the Joint meeting: 5th International Vet-Istanbul Group Congress and 8th International Scientific Meeting Days of Veterinary Medicine, Ohrid, Macedonia, September 23-27, p. 176.
- Biljana Stojanovska-Dimzoska, Elizabeta Dimitrieska-Stojkovic, Zehra Hajrulai-Musliu, Risto Uzunov, Aleksandra Angeleska, Dushica Koceva, Dean Jankuloski (2018) Occurrence and estimation of aflatoxins and ochratoxin A exposure in some food commodities. Book of abstracts of the Joint meeting: 5th International Vet-Istanbul Group Congress and 8th International Scientific Meeting Days of Veterinary Medicine, Ohrid, Macedonia, September 23-27, p. 190.
- Aleksandra Angeleska, Elizabeta Dimitrieska-Stojkovic, Radmila Crceva-Nikolovska, Zehra Hajrulai-Musliu, Biljana Stojanovska-Dimzoska (2018) Assesment of 226Ra, 232Th and 40K levels in poultry feed produced in Macedonia. Book of abstracts of the Joint meeting: 5th International Vet-Istanbul Group Congress and 8th International Scientific Meeting Days of Veterinary Medicine, Ohrid, Macedonia, September 23-27, p. 191-192.
- Aleksandra Angeleska, Elizabeta Dimitrieska-Stojkovic, Radmila Crceva-Nikolovska, Zehra Hajrulai, Biljana Stojanovska-Dimzoska, Gordana Ilievska (2019) Natural radionuclides in poultry feed and assessment of radiation risk, Proceedings of the X International Scientific Agricultural Symposium "Agrosym 2019" p.1514-1518, Jahorina, October 03-06.
- Angeleska Aleksandra, Crceva Nikolovska Radmila, Dimitrieska Stojkovic Elizabeta, Hajrulai Musliu Zehra, Angelovski Ljupco, Dimzovska Biljana, Jankuloski Dean (2019). Radiation levels in samples of dicalcium phosphate (DCP) with a gamma spectrometry method. International conference KRMIVA 2019. Book of abstracts pp.118, 5-7 June, 2019, Opatija, Croatia.
- Zehra Hajrulai-Musliu, Risto Uzunov, Stefan Jovanov, Elizabeta Dimitrieska-Stojkovic, Biljana Stojanovska-Dimzoska, Velimir Stojkovski (2019). Development, validation and application of isotope based chromatographic/spectrophotometric techniques for mixed contaminants including some veterinary drug residues in bovine meat. Book of abstracts, 8. National/ 2. International Food Hygiene Congress, 24-27 October 2019, Antalya, p.108.
- Mila Arapcheska, Zehra Hajrulai-Musliu, Jovanka Tuteska, Risto Uzunov, Maja Dimovski. Changes of fatty acid composition during yogurt processing. Book of abstracts of the Joint meeting: 5th International Vet-Istanbul Group Congress and 8th International Scientific Meeting Days of Veterinary Medicine, Ohrid, Macedonia, September 23-27, p. 174 41.
- Alija G., Hajrulai-Musliu Z., Uzunov R., Havziu D. Method for detection cephalosporin residues in milk using liquid chromatography coupled tandem mass spectrometry. International Congress on natural, health sciences and technology, 15-17 May, University of Tetova Republic of North Macedonia. Book of abstracts. p.375 42.
- Alija G., Hajrulai-Musliu Z., Uzunov R., Shabani A. Development and validation of a liquid chromatography coupled tandem mass spectrometry (LC-MS/MS) method to determination tylosin and lincomycin antibiotic residues in milk. International Congress on natural, health sciences and technology, 15-17 May, University of Tetova Republic of North Macedonia. Book of abstracts. p.440 43.
- Mila Arapcheska, Jovanka Tuteska, Zehra Hajrulai-Musliu, Risto Uzunov. Comparative analysis of fatty acids composition between grass and lucerne forage (28089). Proceedings of First International Biological, Agricultural And Life Science Congress. November 7-8, 2019 LVIV, UKRAINE, p. 181 44.
- Mila Arapcheska, Jovanka Tuteska, Zehra Hajrulai-Musliu, Risto Uzunov. Health benefits of conjugated linoleic acid (28098). Proceedings of First International Biological, Agricultural And Life Science Congress. November 7-8, 2019 LVIV, UKRAINE, p. 182. 45.

## Seminars

- Tome Nestorovski, Zehra Hajrulai Musliu, Ana Angelovska, Risto Uzunov, Stefan Jovanov. Quality control of honey present on the Macedonian market. Book of abstracts. 8th International Congress "Veterinary science and profession". October 10th – 12th 2019. Zagreb, Croatia. P.107 46.
- Zehra Hajrulai-Musliu, Risto Uzunov, Stefan Jovanov, Elizabeta Dimitrieska Stojkovic, Biljana Stojanovska

Dimzoska, Velimir Stojkovski. Development, Validation and Application of Isotope Based Chromatographic/Spectrometric Techniques for Mixed Contaminants Including Some Veterinary Drug Residues in Bovine Meat. Book of Abstracts. 8. National / 2. International Veterinary Food Hygiene Congress 24-27th October 2019 Antalya, p.108-47.

- Velimir Stojkovski, Stefan Jovanov, Risto Uzunov, Zehra Hajrulai-Musliu, Dean Jankuloski. Determination of Synthetic Colors in Selected Market Foods in Macedonia By Reversed-Phase High Performance Liquid Chromatography With UVVisible Diode-Array Detection. Book of Abstracts. 8. National / 2. International Veterinary Food Hygiene Congress 24-27th October 2019 Antalya, p.110-48.
- Mila Arapcheska, Zehra Hajrulai – Musliu, Risto Uzunov, Jovanka Tuteska, Vangelica Jovanovska. Gas chromatography analysis of omega-3 fatty acids content in fish oil supplements. Book of abstracts. 2nd International Meeting Agriscience & Practice (Asp 2019). 12th April 2019 Stip, Republic of North Macedonia. p.62-49.
- Erhan Sulejmani, Zehra Hajrulai Musliu, Risto Uzunov. Physico-chemical characteristic of Macedonian forrest honey. Book of abstracts and full papers from fifth congress of beekeeping and bee products -with international participation- BEEKEEPING AND BEE PRODUCTS. Tuzla, Croatia, 2020. p.21-50.
- Radmila Crceva Nikolovska, Aleksandra Angeleska, Zehra Hajrulai Musliu, Riste Uzunov. Feeding influence on the quality of sheep meat: from the farm to the fork. X International Symposium on Agricultural Sciences AgroReS 2021, 27-29, May, 2021 Trebinje Bosnia and Herzegovina. Book of abstracts. P3\_05. p. 102-53.
- Erhan Sulejmani, Betim Ahmeti, Zehra H. Musliu, Risto Uzunov. Evaluation of quality of butter produced from cream and yogurt during storage. III. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 1-3 September 2021. P. 369
- Zehra Hajrulai-Musliu, Risto Uzunov, Aleksandra Angeleska, Mila Arapcheska, Elizabeta Dimitrieska-Stojkovikj (2021) Determination of milk fat adulteration in sour cream with vegetable oils by GC-FID method, Book of abstracts of Food Quality and Safety Health and Nutrition Congress “Nutricon 2021”, June 9-11, Ohrid.
- Biljana Stojanovska-Dimzoska, Elizabeta Dimitrieska-Stojkovic, Zehra Hajrulai-Musliu, Risto Uzunov, Katerina Blagoevska, Aleksandra Angeleska. Validation protocol for determination of fumonisins in corn. 9th International Scientific Conference Days of Veterinary Medicine 2022, 22nd-25th September 2022, Ohrid.
- Elizabeta Dimitrieska-Stojkovic, Aleksandra Angeleska, Dushica Koceva, Biljana Stojanovska-Dimzoska, Goran Stojkovic, Gordana Ilievska, Risto Uzunov, Zehra Hajrulai-Musliu (2022). Validation of UHPLC-MS/MS method after modified QChERS sample preparation for monitoring of pesticide residues in bovine milk according to EC/2018/555. 9th International Scientific Conference Days of Veterinary Medicine 2022, 22nd-25th September 2022, Ohrid.

#### Publications/books

- Animal management in Disasters, Basic Principles (2023). Lazo Pendovski, Joze SZtaric, Halil S. Biricik, Miroslav Kjosevski, Igor Ulchar, Zehra Hajrulai Musliu, Martin Nikolovski, Ksenija Ilievska, Florina Popovska Percinikj, Ss Cyril and Methodius University, Faculty of veterinary medicine-Skopje, ISBN 978-9989-774-41-6
- Hajrulai-Musliu, Z., Uzunov, R., Jovanov, S., Jankuloski, D., Stojkovski, V., Pendovski, L., & Sasanya, J. J. (2022). Development of a New LC–MS/MS Method for Multiple Residues/Contaminants in Bovine Meat. *Research Aspects in Biological Science Vol. 5*, 52-82.