

PERSONAL INFORMATION

Modestas Ruzauskas

WORK EXPERIENCE

October 1997–Present

Senior research fellow

Lithuanian University of Health Sciences (Lithuania)

01/10/1997–Present

Senior researcher

Lithuanian University of Health Sciences, Kaunas (Lithuania)

Senior research fellow at the Microbiology and Virology Institute, Lithuanian University of Health Sciences

01-06-2019-Present

Professor

Lithuanian University of Health Sciences, Kaunas (Lithuania)

EDUCATION AND TRAINING

– **Ph D., DVM**

Lithuanian University of Health Sciences (Lithuania)

01/09/1987–30/06/1993

Doctor of Veterinary Medicine (DVM), Veterinary Surgeon

Lithuanian Veterinary Academy, Kaunas (Lithuania)

01/09/1993–22/09/1997

Doctor of Agricultural Sciences, Veterinary Medicine (PhD)

Lithuanian Veterinary Institute, Kaisiadorys (Lithuania)

01/09/1998–30/06/2000

Master of Sciences (MSc), Environmental Engineering

Kaunas University of Technology, Kaunas (Lithuania)

ADDITIONAL INFORMATION

Expertise

25 years I am working at Microbiology Laboratory. I have an experience in different classical as well as molecular methods including isolation and identification of pathogenic bacteria, susceptibility testing, molecular testing.

Development of Immunologicals (vaccines) for animals.

Expertise of evaluating research projects (EU Commission, Italy Ministry of Health; ANIHWA, EMIDA, H2020) and research programmes.

Publications

More than 200 publications including articles, abstracts, educational books.

The recent articles in Journals of Clarivate Analytics (Thomson Reuters Web of Sciences):

1. Bartkiene, Elena; Lele, Vita; Sakiene, Vytaute; Zavistanaviciute, Paulina; Ruzauskas, Modestas; Bernatoniene, Jurga; Jakstas, Valdas; Viskelis, Pranas; Zadeike, Daiva; Juodeikiene, Grazina.

Improvement of the antimicrobial activity of lactic acid bacteria in combination with berries/fruits and dairy industry by-products // Journal of the science of food and agriculture. Chichester : John Wiley & Sons. ISSN 0022-5142. eISSN 1097-0010. 2019, vol. 99, iss. 8, p. 3992-4002. DOI: 10.1002/jsfa.9625. [IF 2,422]

2. Armalytė J., Skerniskyte J., Bakiene E., Krasauskas R., Siugzdiniene R., Kareiviene V., Kerziene S., Klimiene I., Suziedeliene E., Ruzauskas M. Microbial diversity and antimicrobial resistance profile in microbiota from soils of conventional and organic farming systems *Frontiers in Microbiology*, 26 April, 2019. doi: 10.3389/fmicb.2019.00892 [IF 4,259]
3. Bartkienė, Elena; Šakienė, Vytutė; Lėlė, Vita; Bartkevics, Vadims; Rusko, Janis; Wiacek, Claudia; Ruzauskas, Modestas; Braun, Peggy G; Matusevičius, Paulius; Zdunczyk, Zenon; Zdunczyk, Przemysław; Juśkiewicz, Jerzy. Perspectives of lupine wholemeal protein and protein isolates biodegradation // *International journal of food science & technology*. Oxford : Wiley. ISSN 0950-5423. eISSN 1365-2621. 2019, vol. 54, no. 6, p. 1989-2001. DOI: 10.1111/ijfs.13901. [IF 2,281]
4. Lele, V.; Zelvyte, R.; Monkeviciene, I.; Kantautaitė, Jonė; Stankevicius, R.; Ruzauskas, M.; Sederevicius, A.; Antanaitis, R.; Bartkiene, E. Milk production and ruminal parameters of dairy cows fed diets containing *Lactobacillus sakei* KTU05-6 and *Pediococcus pentosaceus* BaltBio02 : original article // *Polish Journal of Veterinary Sciences*. Olsztyn : Polska Akademia Nauk. Komitet Nauk Weterynaryjnych. ISSN 1505-1773. eISSN 2300-2557. 2019, vol. 22, no. 2, p. 327-335. DOI: 0.24425/pjvs.2019.129224. [IF 0,802]
5. Van Duijkeren, Engeline; Schwarz, Christine; Bouchard, Damien; Catry, Boudewijn; Pomba, Constança; Baptiste, Keith Edward; Moreno, Miguel A; Rantala, Merja; Ruzauskas, Modestas; Sanders, Pascal; Teale, Christopher; Wester, Astrid Louise; Ignate, Kristine; Kunsagi, Zoltan; Jukes, Helen. The Use of aminoglycosides in animals within the EU: development of resistance in animals and possible impact on human and animal health: a review // *Journal of antimicrobial chemotherapy*. London : Oxford University Press. ISSN 0305-7453. 2019, vol. 00, no. 00, p. 1-17. DOI: 10.1093/jac/dkz161. [IF 5,113]
6. 1. Bartkienė, Elena; Bartkevics, Vadims; Ikkere, Laura Elīna; Pugajeva, Iveta; Zavistanavičiūtė, Paulina; Lėlė, Vita; Ruzauskas, Modestas; Bernatoniene, Jurga; Jakštas, Valdas; Klupšaitė, Dovilė; Žadeikė, Daiva; Viškelis, Pranas; Juodeikienė, Gražina. The effects of ultrasonication, fermentation with *Lactobacillus* sp., and dehydration on the chemical composition and microbial contamination of bovine colostrum // *Journal of dairy science*. New York : Elsevier. ISSN 0022-0302. 2018, vol. 101, iss. 8, p. 6787-6798. DOI: 10.3168/jds.2018-14692. [IF 2,749]
7. Bartkienė, Elena; Ruzauskas, Modestas; Krunglevičiūtė, Vita; Zavistanavičiūtė, Paulina; Bernatoniene, Jurga; Jakštas, Valdas; Ivanauskas, Liudas; Žadeikė, Daiva; Klupšaitė, Dovilė; Viškelis, Pranas; Bendoraitienė, Joana; Navikaitė-Šnipaitienė, Vesta; Juodeikienė, Gražina. Development of antimicrobial gummy candies with addition of bovine colostrum, essential oils and probiotics // *International journal of food science & technology*. Oxford : Wiley. ISSN 0950-5423. eISSN 1365-2621. 2018, Vol. 53, iss. 5, p. 1227-1235. DOI: 10.1111/ijfs.13701. [IF 2,383]
8. Bartkienė, Elena; Šakienė, Vytutė; Bartkevics, Vadims; Wiacek, Claudia; Rusko, Janis; Lėlė, Vita; Ruzauskas, Modestas; Juodeikienė, Gražina; Klupšaitė, Dovilė; Bernatoniene, Jurga; Jakštas, Valdas; Braun, Peggy G. Nutraceuticals in gummy candies form prepared from lacto- fermented lupine protein concentrates, as high-quality protein source, incorporated with Citrus paradise L. essential oil and xylitol // *International journal of food science & technology*. Oxford : Wiley. ISSN 0950-5423. eISSN 1365-2621. 2018, vol. 53, iss. 8, p. 2015-2025. DOI: 10.1111/ijfs.13819. [IF 2,383]
9. Bartkienė, Elena; Šakienė, Vytutė; Lėlė, Vita; Bartkevics, Vadims; Rusko, Janis; Wiacek, Claudia; Ruzauskas, Modestas; Braun, Peggy G; Matusevičius, Paulius; Zdunczyk, Zenon; Zdunczyk, Przemysław; Juśkiewicz, Jerzy. Perspectives of lupine wholemeal protein and protein isolates biodegradation // *International journal of food science & technology*. Oxford : Wiley. ISSN 0950-5423. eISSN 1365-2621. 2018, vol. 00, no. 00, p. 00-00. DOI: 10.1111/ijfs.13901. [IF 2,383]
10. Bartkienė, Elena; Zavistanavičiūtė, Paulina; Lėlė, Vita; Ruzauskas, Modestas; Bartkevics, Vadims; Bernatoniene, Jurga; Gallo, Pasquale; Tenore, Gian Carlo; Santini, Antonello. *Lactobacillus plantarum* LUHS135 and *paracasei* LUHS244 as functional starter cultures for the food fermentation industry: Characterisation, mycotoxin-reducing properties, optimisation of biomass growth and sustainable encapsulation by using dairy by-products // *LWT-Food science and technology*. Amsterdam : Elsevier. ISSN 0023-6438. 2018, vol. 93, July 2018, p. 649-658. DOI: 10.1016/j.lwt.2018.04.017. [IF 3,129]
11. Juozaitienė, Vida; Anskienė, Lina; Čereškienė, Eglė; Japertienė, Renata; Žymantienė, Judita; Ruzauskas, Modestas; Žilaitis, Vytautas; Antanaitis, Ramūnas; Anilienė, Albina; Tušas, Saulius; Urbanavičius, Gediminas. Association of milk flow curve and prevalence of mastitis pathogens in dairy cows // *Indian journal of animal research*. Kamal (India) : Agricultural Research Communication Center. ISSN 0367-6722. eISSN 0976-0555. 2018, vol. 00, no. 00, ID B-965, p. 1-5. DOI: 10.18805/ijar.B-965. [IF 0,201]
12. Klimienė, Irena; Virgailis, Marius; Kerzienė, Sigita; Šiugzdiniene, Rita; Mockeliūnas, Raimundas; Ruzauskas, Modestas. Evaluation of genotypical antimicrobial resistance in ESBL producing *Escherichia coli* phylogenetic groups isolated from retail poultry meat // *Journal of food safety*. Malden, MA : Wiley. ISSN 0149-6085. eISSN 1745-4565. 2018, vol. 38, no. 1, e12370, p. 1-7. DOI:

10.1111/jfs.12370. [IF 1,275]

13. Lėlė, Vita; Monstavičiūtė, Ema; Varinauskaitė, Ieva; Pečkaitytė, Gabrielė; Paškevičiūtė, Laura; Plytnikaitė, Monika; Tamošiūnaitė, Vitalija; Pikūnaitė, Meda; Ruzauskas, Modestas; Stankevičius, Rolandas; Bartkienė, Elena. Sea buckthorn (*Hippophae rhamnoides* L.) and quince (*Cydonia oblonga* L.) juices and their by-products as ingredients showing antimicrobial and antioxidant properties for chewing candy: nutraceutical formulations // *Journal of food quality*. Hoboken : Wiley. ISSN 0146-9428. eISSN 1745-4557. 2018, 3474202, p. 1-10. [IF 0,841]

14. Lėlė, Vita; Ruzauskas, Modestas; Zavistanavičiūtė, Paulina; Laurušienė, Renata; Rimėnė, Giedrė; Kiudulaitė, Dovilė; Tomkevičiūtė, Justina; Nemeikšytė, Jovita; Stankevičius, Rolandas; Bartkienė, Elena. Development and characterization of the gummy-supplements, enriched with probiotics and prebiotics = Desarrollo y caracterización de suplementos gomosos enriquecidos con probióticos y prebióticos // *CYTA: journal of food*. Abingdon, Oxfordshire, UK : Taylor & Francis. ISSN 1947-6337. eISSN 1947-6345. 2018, vol. 16, no. 1, p. 580-587. DOI: 10.1080/19476337.2018.1433721. [IF 1,371]

15. Merkevičienė, Lina; Klimienė, Irena; Šiugždinienė, Rita; Virgailis, Marius; Mockeliūnas, Raimundas; Ruzauskas, Modestas. Prevalence and molecular characteristics of multi-resistant *Escherichia coli* in wild birds // *Acta veterinaria Brno*. Brno : University School Of Veterinary Medicine. ISSN 0001-7213. eISSN 1801-7576. 2018, vol. 87, no. 1, p. 9-17. DOI: 10.2754/avb201887010009. [IF 0,422]

16. Ruzauskas, Modestas; Klimienė, Irena; Armalytė, Julija; Bartkienė, Elena; Šiugždinienė, Rita; Skerniškytė, Jūratė; Krasauskas, Renatas; Sužiedėlienė, Edita. Composition and antimicrobial resistance profile of Gram-negative microbiota prevalent in aquacultured fish // *Journal of food safety*. Malden, MA : Wiley. ISSN 0149-6085. eISSN 1745-4565. 2018, vol. 38, no. 3, 12447, p. 1-10. DOI: 10.1111/jfs.12447. [IF 1,275]

17. Juozaitienė, Vida; Juozaitis, Arūnas; Kardišauskas, Arvydas; Žymantienė, Judita; Žilaitis, Vytautas; Antanaitis, Ramūnas; Ruzauskas, Modestas. Relationship between dystocia and the lactation number, stillbirth and mastitis prevalence in dairy cows // *Acta veterinaria Brno*. Brno : University School Of Veterinary Medicine. ISSN 0001-7213. eISSN 1801-7576. 2017, vol. 86, p. 87-94. DOI: 10.2754/avb201786040000. [IF 0,422]

18. Krunglevičiūtė, Vita; Želvytė, Rasa; Monkevičienė, Ingrida; Kantautaitė, Jonė; Stankevičius, Rolandas; Ruzauskas, Modestas; Bartkienė, Elena. Applicability of *Pediococcus* strains for fermentation of cereal bran and its influence on the milk yield of dairy cattle // *Žemdirbystė = Agriculture*. Kėdainiai : Lietuvos žemdirbystės institutas. ISSN 1392-3196. 2017, vol. 104, no. 1, p. 63-70. DOI: 10.13080/z-a.2017.104.009. [IF 0,746]

19. Merkevičienė, Lina; Ruzauskaitė, Neda; Klimienė, Irena; Šiugždinienė, Rita; Dailidavičienė, Jurgita; Virgailis, Marius; Mockeliūnas, Raimundas; Ruzauskas, Modestas. Microbiome and antimicrobial resistance genes in microbiota of cloacal samples from European herring gulls (*Larus argentatus*) // *Journal of Veterinary Research*. Puławy : National Veterinary Research Institute. ISSN 2450-7393. eISSN 2450-8608. 2017, vol. 61, no. 1, p. 27-35. DOI: 10.1515/jvetres-2017-0004. [IF 0,811]

20. Pomba, Constanca; Rantala, Merja; Greko, Christina; Baptiste, Keith Edward; Catry, Boudewijn; Van Duijkeren, Engeline; Mateus, Ana; Moreno, Miguel A; Pyörälä, Satu; Ruzauskas, Modestas; Sanders, Pascal; Teale, Christopher; Threlfall, E. John; Kunsagi, Zoltan; Torren-Edo, Jordi; Jukes, Helen; Törneke, Karolina. Public health risk of antimicrobial resistance transfer from companion animals // *Journal of antimicrobial chemotherapy*. London : Oxford University Press. ISSN 0305-7453. eISSN 1460-2091. 2017, vol. 72, no.4, p. 957-968. DOI: 10.1093/jac/dkw481. [IF 5,217]

21. Bartkienė, Elena; Krunglevičiūtė, Vita; Antanaitis, Ramūnas; Kantautaitė, Jonė; Kučinskas, Audrius; Ruzauskas, Modestas; Merkevičienė, Lina; Šiugždinienė, Rita; Kučinskienė, Jūratė; Damašius, Jonas; Juodeikienė, Gražina. Antimicrobial activity of lactic acid bacteria multiplied in an alternative substrate and their influence on physiological parameters of new-born calves // *Veterinární medicína*. Praha : Czech Academy Agricultural Sciences. ISSN 0375-8427. 2016, vol. 61, no. 12, p. 653-662. DOI: 10.17221/192/2015-VETMED. [IF 0,489]

22. Juknius, Tadas; Ruzauskas, Modestas; Tamulevičius, Tomas; Šiugždinienė, Rita; Juknienė, Indrė; Vasiliauskas, Andrius; Jurkeviciute, Aušrinė; Tamulevičius, Sigita. Antimicrobial properties of diamond-like carbon/silver nanocomposite thin films deposited on textiles: towards smart bandages // *Materials*. Basel : MDPI AG. ISSN 1996-1944. 2016, vol. 9, iss. 5, art. no. 371, p. 1-15. DOI: 10.3390/ma9050371. [IF 2,654]

23. Klimienė, Irena; Virgailis, Marius; Pavilonis, Alvydas; Šiugždinienė, Rita; Mockeliūnas, Raimundas; Ruzauskas, Modestas. Phenotypical and genotypical antimicrobial resistance of coagulase-negative staphylococci isolated from cow mastitis // *Polish journal of veterinary sciences*. Warsaw : De Gruyter Open. ISSN 1505-1773. eISSN 2300-2557. 2016, vol. 19, no. 3, p. 639-646. DOI: 10.1515/pjvs-2016-0080. [IF 0,697]

24. Ruzauskas, Modestas; Couto, Natacha; Pavilonis, Alvydas; Klimienė, Irena; Šiugždinienė, Rita; Virgailis, Marius; Vaškevičiūtė, Lina; Anskienė, Lina; Pomba, Constanca. Characterization of *Staphylococcus pseudintermedius* isolated from diseased dogs in Lithuania // Polish journal of veterinary sciences. Berlin : De Gruyter. ISSN 1505-1773. 2016, vol. 19, no. 1, p. 7-14. DOI: 10.1515/pjvs-2016-0002. [IF 0,697]
25. Ruzauskas, Modestas; Misyte, Skaistė; Merkevičienė, Lina; Miknienė, Zoja; Šiugždinienė, Rita; Klimienė, Irena; Pikūnienė, Alma; Kučinskienė, Jūratė. Gut microbiota isolated from the European pond turtle (*Emys orbicularis*) and its antimicrobial resistance // Polish journal of veterinary sciences. Warsaw : De Gruyter Open. ISSN 1505-1773. eISSN 2300-2557. 2016, vol. 19, no. 4, p. 723-730. DOI: 10.1515/pjvs-2016-0091. [IF 0,697]
26. Ruzauskas, Modestas; Šiugždinienė, Rita; Butrimaitė-Ambrozevičienė, Česlava; Žymantienė, Judita; Klimienė, Irena; Vaškevičiūtė, Lina; Mockeliūnas, Raimundas; Virgailis, Marius. Prevalence and characterization of multi-resistant staphylococcus SPP. isolated from poultry liver // Journal of food safety. Malden, MA : Wiley-Blackwell. ISSN 0149-6085. eISSN 1745-4565. 2016, vol. 36, no. 4, p. 508-514. DOI: 10.1111/jfs.12270. [IF 0,948]
27. Ruzauskas, Modestas; Vaškevičiūtė, Lina. Detection of the mcr-1 gene in *Escherichia coli* prevalent in the migratory bird species *Larus argentatus* // Journal of antimicrobial chemotherapy. London : Oxford University Press. ISSN 0305-7453. 2016, vol. 71, no. 8, p. 2333-2334. DOI: 10.1093/jac/dkw245. [IF 5,071]
28. Zienius, Dainius; Pridotkas, Gediminas; Morkūnas, Mindaugas; Ruzauskas, Modestas. Phylogenetic investigation of partial G gene sequences in Lithuanian rabies virus field isolates = : Filogenetsko istraživanje djelomičnih sekvencija gena G terenskih izolata virusa bjesnoće u Litvi // Veterinarski archiv. Zagreb : University of Zagreb. ISSN 0372-5480. 2016, vol. 86, iss. 1, p. 23-34. [IF 0,302]
29. Catry, Boudewijn; Cavaleri, Marco; Baptiste, Keith; Grave, Kari; Grein, Kornelia; Holm, Anja; Jukes, Helen; Liebana, Ernesto; Navas, Antonio Lopez; Mackay, David; Magiorakos, Anna-Pelagia; Romo, Miguel Angel; Moulin, Gérard; Madero, Cristina Muñoz; Pomba, Maria Constança; Powell, Mair; Pyörälä, Satu; Rantala, Merja; Ruzauskas, Modestas; Sanders, Pascal; Teale, Christopher; Threlfall, Eric John; Tömeke, Karolina; van Duikeren, Engeline; Edo, Jordi Torren. Use of colistin-containing products within the European Union and European Economic Area (EU/EEA): development of resistance in animals and possible impact on human and animal health // International journal of antimicrobial agents. Amsterdam : Elsevier Science Publishers. ISSN 0924-8579. 2015, vol. 46, no. 3, p. 297-306. DOI: 10.1016/j.ijantimicag.2015.06.005. [IF 4,097]
30. Ruzauskas, Modestas; Couto, Natacha; Kerzienė, Sigita; Šiugždinienė, Rita; Klimienė, Irena; Virgailis, Marius; Pomba, Constanca. Prevalence, species distribution and antimicrobial resistance patterns of methicillin-resistant staphylococci in Lithuanian pet animals // Acta veterinaria Scandinavica [electronic resource]. London : BioMed Central. ISSN 1751-0147. 2015, vol. 57, no. 1, p. 1-7. DOI: 10.1186/s13028-015-0117-z. [IF 1,230]
31. Ruzauskas, Modestas; Couto, Natacha; Šiugždinienė, Rita; Klimienė, Irena; Virgailis, Marius; Vaškevičiūtė, Lina; Mockeliūnas, Raimundas; Pomba, Constanca. Methicillin-resistant coagulase-negative *Staphylococcus* spp. prevalence in Lithuanian dogs: a cross-sectional study // Veterinarski archiv. Zagreb : University of Zagreb. ISSN 0372-5480. 2015, vol. 85, iss. 2, p. 175-187. [IF 0,321]
32. Starkevič, Urtė; Bortesi, Luisa; Virgailis, Marius; Ruzauskas, Modestas; Gritch, Anatoli; Ražanskienė, Aušra. High-yield production of a functional bacteriophage lysin with antipneumococcal activity using a plant virus-based expression system // Journal of biotechnology. Amsterdam : Elsevier Science Publishers. ISSN 0168-1656. 2015, vol. 200, p. 10-16. DOI: 10.1016/j.jbiotec.2015.02.028. [IF 2,667]

Projects 16 implemented projects based on grants

The recent projects:

1. Research programme "Safe and healthy food". Project "Improvement of raw food and products for prevention of human campylobacteriosis". (2011-2013, budget 197 000 Eur.) Project member.
2. Contract by client of industry „Antimicrobial proteins as an alternative for antimicrobials for the market of animal safety" (2012-2013 budget 10 000 Eur). Project member, administrator.
3. Project of research group "Genetic determinants encoding antimicrobial resistance in companion-animals. (2012-2014, budget 66 000 Eur). Project supervisor.
4. Research project of Lithuanian University of Health Sciences and Kaunas University of Technology "Application of nanocomposites for innovative antimicrobial coatings". (2014, budget 14 000 Eur). Project supervisor.

5. Project of research group "Genetic determinants encoding antimicrobial resistance of coagulase-negative staphylococci". (2013-2015, budget 101 000 Eur). Project member.
6. Research programme " Safe and healthy food ". Project "Prevalence of the genes encoding antimicrobial resistance in poultry meat". (2014-2015, budget 71 000 Eur). Project member.
7. Research project of Lithuanian University of Health Sciences and Kaunas University of Technology "Development of a smart nanoplaster using nanostructures and biopolymers. (2015, budget 6 000 Eur). Project supervisor.
8. Research programme "Sustainability of agro-, forest and water ecosystems". Ongoing project "Influence of intensive farming on development, persistence and spread of bacteria resistant to antimicrobials and biocides in soil and water". 2015-2018, (budget 249 000 Eur). Project supervisor.

Memberships

Member of Antimicrobial Working Party (AWP), European Medicines Agency;
Member of European Society of Clinical Microbiology and Infectious Diseases;
Member of the Lithuanian Ornithofaunistic Commission

Other Relevant Information

Teaching experience:

I am working as a professor in Lithuanian University of Health Sciences and as a visiting professor at Vytautas Magnus University. I am supervisor of one PhD student and a consultant of two PhD students.

I am a member of two Doctoral Committees (Veterinary and Biochemistry, at Lithuanian University of Health Sciences).

More info:

https://www.researchgate.net/profile/Modestas_Ruzauskas

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Modestas Ruzauskas 11-07-2019