CURRICULUM VITAE

Mamuka Kotetishvili, PhD

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CITIZENSHIP AND RESIDENCE STATUS

CITIZENSHIP: Georgia

RESIDENCY

2005	Received a status (Green Card) of Permanent Resident of the United States of America (Registration Category: Outstanding Researcher/Professor)
LANGUAGES	Georgian – native, English – fluent, Russian – good

EDUCATION

1995	PhD	Candidate of Biology Sciences (Ph.D. Equivalent) Award Institute: Academician L. Kanchaveli Research Institute of Plant Protection, Tbilisi, Georgia. Conferred by a Board of the Academic Experts and Committee for Science and Technology of the Republic of Georgia, Tbilisi, Republic of Georgia
1981-1986	MS	Specialty: Zoo-technology. Zoo-technical-Veterinary Educational-Research Institute. Tbilisi, Republic of Georgia

POST GRADUATE TRAINING

Post-doctoral training

1999-2003

Advanced training in emerging and re-emerging infectious diseases research, control and prevention strategies, and their implementation and evaluation. Fogarty International Center, National Institutes of Health, USA (Grant number: 1 D43 TW00907-01).

1997-1999

Advanced training in Project: Photostabilization of *Bacillus thuringiensis* formulations for effective pest control. The Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, Israel.

2005

Workshop and training in "A comparative genomic analysis". National Center for Supercomputing Applications, Urbana, Illinois, and Program in Genetics and Genomic Medicine, University of Maryland School of Medicine. Baltimore, Maryland, USA.

Certificates

2024

Wiley Editor Certificate. Wiley. USA.

2005

Certificate of completion of the BSL-3 Training Course. Middle Atlantic Regional Centers of Excellence (MARCE).
University of Maryland School of Medicine, Baltimore, Maryland, USA.

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2005

Certificate of completion of the Health Insurance Portability and Accountability Training Course. University of Maryland School of Medicine, Baltimore, Maryland, USA.

2004

Certificate of completion of the MARCE BSL-3 Laboratory Training Course. University of Maryland School of Medicine, Baltimore, Maryland, USA.

2003

Certificate of completion of the Laboratory Safety Course. University of Maryland School of Medicine, Baltimore, Maryland, USA.

2003

Certificate of completion of the Bloodborne Pathogen Training Course. University of Maryland School of Medicine, Baltimore, Maryland, USA.

2003 Certificate of completion of the DOT Infectious and Diagnostic Materials Shipping Course. University of Maryland School of Medicine, Baltimore, Maryland, USA.

2003 Certificate of completion of the Hazardous Waste Management Course. University of Maryland School of Medicine, Baltimore, Maryland, USA.

1996 Certificate of successful completion, Level C. The course of studies for the 1996 Summer Intensive Program of American English Language, Culture and Civilization. American-Georgian Summer Institute 1996. Tbilisi Independent University. Tbilisi, Georgia.

REGISTRATION FOR WORK ON SELECT AGENTS

2004 Specialist registered by the Centers of Disease Control and Prevention (CDC) of the United States of America, and approved by the U.S. Department of Justice, for work with Select Agent, *Yersinia pestis*

EMPLOYMENT AND PROFESSIONAL POSITIONS

2024 Director of the One Health Institute (OHI). School of Science and Technology, the University of Georgia. Tbilisi, Georgia.

2019-present Deputy Director of Science and Foreign Relations.
G. Natadze Scientific-Research Institute of Sanitary, Hygiene and Medical Ecology. Tbilisi, Georgia.

2022 Research Expert. The School of Science and Technology, Scientific-Research Institute of the University of Georgia. Tbilisi. Georgia.

2019-2022 Head of Risk Assessment Division. Scientific-Research Center of Agriculture. Tbilisi. Georgia

2014-2019 Professor of Microbiology and Molecular Genetics.
The School of Natural Sciences and Medicine. Ilia State University. Tbilisi, Georgia.

2015-2019 Chief Specialist of Risk Assessment. Division of Risk Assessment. Scientific Research Center of Agriculture. Tbilisi. Georgia

2012-2013 Professor of Microbiology and Molecular Genetics.

The College of Arts and Sciences. Ilia State University. Tbilisi, Georgia.

2011 — Professor of Microbiology and Molecular genetics, and Acting Director.
The Institute of Microbial Genetics and Biotechnology, Ilia State University. Tbilisi, Georgia.

2009-2010 — Professor of Microbiology and Molecular genetics.
Institute of Chemical Biology, Ilia State University. Tbilisi, Georgia.

2008-2009 — Scientist.
American Type Culture Collections (ATCC), Bacteriology Department, Mycobacterium Collections, and Biodefense and Emerging Infections Research Resources Repository, Manassas, Virginia, USA.

2004-2008 — Assistant Professor of Epidemiology and Preventive Medicine.
Department of Epidemiology and Preventive Medicine. University of Maryland School of Medicine.
Baltimore, Maryland, USA.

2003-2004 — Instructor of Epidemiology and Preventive Medicine.
Department of Epidemiology and Preventive Medicine. University of Maryland School of Medicine.
Baltimore, Maryland, USA.

1999-2003 — Postdoctoral Fellow.
Laboratory of Molecular Epidemiology, Department of Epidemiology and Preventive Medicine. University of Maryland School of Medicine. Baltimore, Maryland, USA.

1996-1999 — Senior Research Scientist.
Laboratory of Microbiological Method, Department of Biological control. Academician L. Kanchaveli's Research Institute of Plant Protection, Tbilisi, Republic of Georgia

1991-1996 — Research Scientist.
Laboratory of Microbiological Method, Department of Biological Control. Academician L. Kanchaveli's Research Institute of Plant Protection, Tbilisi, Republic of Georgia.

1988-1991 — Senior Laboratory Technician.
Laboratory of the Secondary Metabolites, Regional Branch of Scientific Research Institute of Agrarian Biotechnology of USSR, Tbilisi, the Republic of Georgia.

COMMITTEE RESPONSIBILITIES

2023-present	Ad hoc Reviewer for grant applications. The Scientific Committee of the European One Health Association (EOHA), Maisons-Alfort, France.
2018-present	Member, Expert Committee for Evaluation of University Educational Programs. National Center for Educational Quality Enhancement. Tbilisi, Georgia.
2018-2022	Head of the Scientific Method Section for Food Safety, Veterinary and Phytosanitary Risk Assessments, and for Food technology. The Scientific-Research Center of Agriculture. Tbilisi, Georgia
2018-2022	Member, Scientific Committee. The Scientific-Research Center of Agriculture. Tbilisi, Georgia.
2018-2022	Member, Hiring Committee The Scientific-Research Center of Agriculture. Tbilisi, Georgia.
2008-2009	Member, Research Committee. American Type Culture Collections (ATCC), Manassas, Virginia, USA.
2008-2009	Member, Hiring Committee. American Type Culture Collections (ATCC), Manassas, Virginia, USA.
2004-2008	Member, Research Committee. Department of Epidemiology and Preventive Medicine, University of Maryland School of Medicine. Baltimore, Maryland, USA.
2008	Member, Molecular Epidemiology Task Force Group. Department of Epidemiology and Preventive Medicine, University of Maryland School of Medicine. Baltimore, Maryland, USA.
2006-2008	Member, a Representative of the Junior Faculty. Mentoring Committee, Department of Epidemiology and Preventive Medicine, University of Maryland School of

Medicine. Baltimore, Maryland, USA.

2004-2008 — Associated Member, Graduate School. University of Maryland School of Medicine. Baltimore, Maryland, USA.

TEACHING/TRAINING COURSES GIVEN

Teaching Courses

2012-2019 — Director for the MS and PhD course "Molecular genetic methods, introductory bioinformatics and biotechnology". Ilia State University. Tbilisi, Georgia.

2011-2013 — Director for the BC course "Eukaryotic and prokaryotic genomic databases and their general characteristics"; Lecturer for the MS and PhD course "Molecular genetic methods, introductory bioinformatics and biotechnology", (Programs: Chemical Biology; and Molecular Biotechnology). The Faculty of Graduate Studies. Ilia State University. Tbilisi, Georgia.

2009-2010 — Co-director for the MS Course "The application of molecular genetic methods in biomedical industry"; lecturer for the MS and PhD courses "Molecular genetic methods, introductory bioinformatics and biotechnology", and "Microbial molecular biology and biotechnology". The Faculty of Graduate Studies, Ilia State University. Tbilisi, Georgia.

2007-2008 — Co-Director for the MS and PhD Course: Molecular epidemiology of diseases (PREV 780). Department of Epidemiology and Preventive Medicine. University of Maryland School of Medicine, Baltimore. Maryland, USA.

2007-2008 — Lecturer for the MS Course: Strain molecular typing. Department of Epidemiology and Preventive Medicine. University of Maryland School of Medicine, Baltimore. Maryland, USA.

Training Courses

Tutor — Practical Workshop on CRA and MRA for EAST-ENP Countries. Organized by Europen Food Safety Authority (EFSA). Tbilisi, Georgia. 2019.

Trainer — Training Course: General principles of food safety. The USDA Program of International Development. Land O'Lakes Inc.

The US Department of Agriculture. Tbilisi, Georgia. 2019.

EDITORIAL BOARD ACTIVITIES

Editorial Board Appointments

2024-Present	Academic Editor and Editorial Board Member, Journal of BMC Microbiology, BioMed Central Ltd. Part of Springer Nature. UK.
2024-Present	Academic Editor and Editorial Board Member, Journal of AIDS Research and Treatment, John Wiley & Sons, Inc. USA.
2024-Present	Academic Editor and Editorial Board Member, Journal "EMI: animal and Environment". Taylor and Francis. UK.
2008-2014	Editorial Board Member, Journal of Clinical Microbiology. American Society for Microbiology (ASM), USA.

Journal Peer Review Activities

Since 2024	Ed hoc Reviewer, Journal of Archives of Virology, Springer-Verlag GmbH Austria, part of Springer Nature.
Since 2024	Ed hoc Reviewer, Journal of Infection and Drug Resistance, Dove Medical Press. UK.
Since 2024	Ed hoc Reviewer, Journal of Archives of Microbiology. Springer Berlin Heidelberg, Germany.
Since 2023	Ed hoc Reviewer, Journal of Scientific Reports. Springer Nature. Germany-UK.
Since 2023	Ed hoc Reviewer, Journal of Medical Virology. Wiley-Blackwell. USA.
Since 2023	Ed hoc Reviewer, Journal of Probiotics and Antimicrobial Proteins. Springer, USA.
Since 2022	Ed hoc Reviewer, Journal of Global Antimicrobial Resistance. International Society of Antimicrobial Chemotherapy (ISAC), Global Chinese Association of Clinical Microbiology and

Infectious Diseases (GCACMID), and the Asia-Pacific Society of Clinical Microbiology and Infection (APSCMI).Elsevier.

Since 2021 — Ed hoc Reviewer, Journal of Clinical Epidemiology and Global Health. Official Journal of the Indian Clinical Epidemiology Network. Elsevier. India.

Since 2021 — Ed hoc Reviewer, Journal of Infection and Drug Resistance. Dovepress. UK.

Since 2020 — Ed hoc Reviewer, Journal of Food and Chemical Toxicology. British Industrial Biological Research Association, Oxford ; New York : Pergamon Press; Elsevier. UK.

Since 2020 — Ed hoc Reviewer, Journal of Current Microbiology. Springer. USA.

Since 2019 — Journal of Microbial Drug Resistance, MARY ANN LIEBERT INC, USA.

Since 2019 — Ed hoc Reviewer, Journal of Microbial Drug Resistance. Mary Ann Liebert, Inc., publishers**.** USA.

Since 2013 — Ed hoc Reviewer, Journal of Virology. American Society for Microbiology (ASM), USA.

Since 2010 — Ed hoc Reviewer, Journal of Bacteriology. American Society for Microbiology (ASM), USA.

Since 2010 — Ed hoc Reviewer, Infection and Immunity. American Society for Microbiology (ASM), USA.

Since 2009 — Ed hoc Reviewer, Journal of Foodborne Pathogens and Disease. Mary Ann Liebert, Inc., publishers. USA.

Since 2007 — Ed hoc Reviewer, American Journal of Infection Control. Association for Professionals in Infection Control and Epidemiology (APIC). USA.

Since 2004 — Ed hoc Reviewer, Journal of Applied and Environmental Microbiology. American Society for Microbiology (ASM) USA.

Since 2004 — Ed hoc Reviewer, Journal of Clinical Microbiology. American Society for Microbiology (ASM), USA.

Since 2004 — Ed hoc Reviewer, Journal of Infectious Diseases. Oxford Academic. USA.

PROFESSIONAL SOCIETIES

2023-present	Associated Member of the Governing Board and General Assembly of the European One Health Association (EOHA), Maisons-Alfort, France.
2023-present	Member of the Scientific Committee of the European One Health Association (EOHA), Maisons-Alfort, France.
2022-present	Member (and Focal Point in Georgia). The New European Surgical Academy (NESA). Germany.
2019-Present	Academician and Member. The Academy of the Educational Sciences of Georgia. Tbilisi, Georgia.
2019-Present	Member, The Georgian Nutrition Society. Tbilisi, Georgia.
1999-2010	Member, American Society for Microbiology. USA
2004-2007	Member, Maryland Branch of the American Society for Microbiology. Baltimore, Maryland, USA.

CONSULTING ACTIVITIES

2010	Visiting Consultant of the National Tuberculosis Program of Georgia. Department of Epidemiology, School of Public Health, Harvard University. Boston, Massachusetts, USA.
2010	Consultant National Tuberculosis Program of Georgia, National Center for Tuberculosis and Lung Diseases. Tbilisi, Georgia.
1997-1999	Consultant National Center for Diseases Control of Georgia, Georgia Republic Ministry of Health. Tbilisi, Republic of Georgia.

Other

2023-present	Focal point of Scientific-Research Institute of Sanitary, Hygiene and Medical Ecology for the EU Med-Vet-Net Association, Maisons-Alfort, France.
2019-2022	National Focal Contact Person in Georgia, for the

communication with the European Food Safety Authority (EFSA), Parma, Italy.

SCHOLARSHIPS AND AWARDS

1999	The Georgia Republic President's Award of the Second Degree for Young Scientists. Tbilisi, Georgia.
1999	Academic Stipend granted by President of the Georgia Republic, Eduard Shevardnadze. Tbilisi, Georgia.
1992	Award for advanced scientific research. Project: "Enrichment of feed using "Biosill". The Scientific Institute of Biotechnology, the Regional Branch of the Academy of Agriculture of USSR. Tbilisi, the Republic of Georgia.

SUPERVISION OF DOCTORAL THESES

2018-2022	Supervisor for Ekaterine Gabashvili's Ph.D. research; thesis: Antibiotic Resistance in Black Sea Microbial Populations and the Impact of Bacteriophages on Horizontal Transfer of Antimicrobial Resistance Genes. Ilia State University. Tbilisi, Georgia.
2004-2008	Supervisor for the design and execution of the molecular aspects of Cynthia Bee Stine's Ph.D. Research project. Thesis: Mycobacteriosis in Chesapeake Bay striped bass *Morone saxatilis.* Department of Epidemiology and Preventive Medicine. School of Medicine, University of Maryland. Baltimore, USA.

RESEARCH GRANTS AND CONTRACT SUPPORT

Project Director	Project: TAIEX Workshop: The Different Stages of Food Safety Microbiological Risk Assessment. Technical Assistance and Information Exchange Instrument of the European Commission. 14 - 16 December 2021
Project Director	Project: General principles of food safety. The USDA Program of International Development. Land O'Lakes Inc. The US Department of Agriculture 09.2019-12.2019
Principal Investigator	Project: Drug resistant tuberculosis in Republic of Georgia. Fogarty International Center of National Institutes of Health (NIH) (03/30/07-11/28/07). Global Health Resource

Center of University of Maryland.

Principal Investigator	Project: The use of microarrays for studying genome-wide features of *Yersinia pestis* isolates from Former Soviet Union. PFGRC (NIH/NIAID sponsored Pathogen Functional Genomics Resource Center at TIGR). (2005)
Co-investigator	Project: Genetic clustering among *Y. pestis* and other yersiniae. 07/01/03-06/30/05. The National Institutes of Health (NIH).
Co-Investigator	Grant No.02-5-21048. Biotechnology Engagement Program (BTEP), Department of Health and Human Services. Molecular epidemiology and antimicrobial resistance of bacterial infections. 02/01/02-01/31/05.
Co-Investigator	Project: BioHazard Epidemiology. EDO. 10/9/04-12/13/04.
Co-investigator	Project: Identification of *L. monocytogenes* genetic clusters having increased pathogenic potential. The United States Department of Agriculture, USDA/CSREES, 12/15/01 – 12/30/03.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Kobakhidze S, Koulouris S, Kakabadze N, **Kotetishvili M**. Genetic recombination-mediated evolutionary interactions between phages of potential industrial importance and prophages of their hosts within or across the domains of Escherichia, Listeria, Salmonella, Campylobacter, and Staphylococcus. BMC Microbiol. 2024 May 4;24(1):155. doi: 10.1186/s12866-024-03312-6. PMID: 38704526; PMCID: PMC11069274.
2. Tabatadze L, Gabashvili E, Kobakhidze S, Lomidze G, Loladze J, Tsitskishvili L, **Kotetishvili M**. Evolutionary analysis of rabies virus isolates from Georgia. Arch Virol. 2022 Aug 1. doi: 10.1007/s00705-022-05550-3. Epub ahead of print. PMID: 35913651.
3. Gabashvili E, Kobakhidze S, Chkhikvishvili T, Tabatadze L, Tsiklauri R, Dadiani K, Koulouris S, **Kotetishvili M**. Metagenomic and Recombination Analyses of Antimicrobial Resistance Genes from Recreational Waters of Black Sea Coastal Areas and Other Marine Environments Unveil Extensive Evidence for Their both Intrageneric and Intergeneric Transmission across Genetically Very Diverse Microbial Communities. Mar Genomics. 2021 Dec 16;61:100916. doi: 10.1016/j.margen.2021.100916. Epub ahead of print. PMID: 34922301.
4. Stylianos Koulouris, Jean Lou CM Dorne, Peter Sousa Hoejskov, Davit Pipoyan, Meline Beglaryan, Lilit Sahakyan, Elmira Hasanova, Jamila Hajizada, Misir Misirli, Burhana Murshudova, Qiyasaddin Calladov, Camal Guliyev, Hɑnna Sandul, Ekaterina Fedorenko, Leila Tabatadze, Saba Kobakhidze, Tamar Chkhikvishvili, Ekaterine Gabashvili, Rusudan Tsiklauri, Ketevan Dadiani, Giorgi Mikadze, Kakha Sokhadze, Lasha Avaliani, Rezo Kobakhidze, Levan Ujmajuridze, **Mamuka Kotetishvili**, Tatiana Calionchina, Liscenco Oleg, Kateryna Chuzhakina. Overview of risk assessment activities

for the food safety area in East European Neighborhood Policy countries. European Food Safety Authority (EFSA), APPROVED: 20/09/2021, doi:10.2903/sp.efsa.2021.e191101.

5. Gabashvili E, Kobakhidze S, Chkhikvishvili T, Tabatadze L, Tsiklauri R, Dadiani K, **Kotetishvili M**. Bacteriophage-Mediated Risk Pathways Underlying the Emergence of Antimicrobial Resistance via Intrageneric and Intergeneric Recombination of Antibiotic Efflux Genes Across Natural populations of Human Pathogenic Bacteria. Microb Ecol. 2021 Sep 1. doi: 10.1007/s00248-021-01846-0. Epub ahead of print. PMID: 34467445.
6. Gabashvili, E., Kobakhidze, S., Koulouris, S. Robinson, T., **Kotetishvili, M.** Bi- and Multi-directional Gene Transfer in the Natural Populations of Polyvalent Bacteriophages, and Their Host Species Spectrum Representing Foodborne Versus Other Human and/or Animal Pathogens. *Food Environ Virol* (2021). https://doi.org/10.1007/s12560-021-09460-6.
7. J. Paule, N. Goginashvili, I. Tvauri, L. Paule, E. Gabashvili, **M. Kotetishvili**, N. Kobakhidze. Identification and genetic diversity of *Acer ibericum* (Aceraceae) in South Caucasus. Journal of Forest Science. 2021. Vol. 67 (9) 420-426.
8. Gabashvili E, Osepashvili M, Koulouris S, Ujmajuridze L, Tskhitishvili Z, **Kotetishvili M**. Phage Transduction is Involved in the Intergeneric Spread of Antibiotic Resistance-Associated bla_{CTX-M}, mel, and tetM Loci in Natural Populations of Some Human and Animal Bacterial Pathogens. *Curr Microbiol*. 2020;77(2):185-193. doi:10.1007/s00284-019-01817-2
9. Lomidze D., **M. Kotetishvili**. Genetic Recombination of the *rpoB* Gene as a Mechanism of the *Mycobacterim tuberculosis* resistance to Rifampin. Asian Journal of Pharmacy, Nursing and Medical Sciences. 2015 April. Vol. 3, No. 2, p. 23-32.
10. Harris, A. D., **M. Kotetishvili,** S. Shurland, J. A. Johnson, J. G. Morris, L. Nemoy, J. K. Johnson. How Important is Patient-to-patient Transmission in Extended Spectrum β-Lactamase (ESBL) *Escherichia coli* Acquisition. American Journal of Infection Control. 2007 Mar;35(2):97-101.
11. **Kotetishvili, M.,** A. Kreger, G. Wauters, J. G. Morris, Jr., A. Sulakvelidze, O. C. Stine. Multilocus Sequence Typing for Studying Genetic Relationships Among *Yersinia* species. J Clin Microbiol. 2005 Jun;43(6):2674-84.
12. Nemoy, L., **M. Kotetishvili**, J. Tigno, A. Keefer-Norris, A. D. Harris, E. N. Perencevich, J. A. Johnson, D. Torpey, A. Sulakvelidze, , J. G. Morris Jr., O. C. Stine. Multilocus Sequence Typing (MLST) vs. Pulsed Field Gel Electrophoresis (PFGE) for the Characterization of Extended Spectrum Beta Lactamase (ESBL) Producing *E. coli* isolates. J Clin Microbiol. 2005 Apr;43(4):1776-81.
13. Revazishvili, T., **M. Kotetishvili**, O. C. Stine, A. Kreger, , J. G. Morris Jr., and A. Sulakvelidze. Comparative Analysis of Multilocus Sequence Typing and Pulsed-Field Gel Electrophoresis for characterizing *Listeria monocytogenes s*trains isolated from environmental and clinical sources. J. Clin. Microbiol. 2004. Jan; **42**(1): 276-85.
14. **Kotetishvili, M**., O. C. Stine, Y. Chen, A. Kreger, A. Sulakvelidze, S. Sozhamannan and J. G. Morris Jr. Multilocus Sequence Typing has better discriminatory ability for typing *Vibrio cholerae* than does Pulsed Field Gel Electrophoresis, and it clusters epidemic *V. cholerae* serogroups in a distinct genetic cluster. J. Clin. Microbiol. 2003. May. **41**:2191-6.
15. Li M., **Kotetishvili, M**., Y. Chen, and S. Sozhamannan. Comparative genomic analyses of the Vibrio pathogenicity (VPI) and Cholera Toxin prophage (CTXϕ) regions in nonepidemic serogroup strains of *Vibrio cholerae*. Applied Environmental Microbiology. 2003. Mar. **69**:1728-38.
16. **Kotetishvili, M**., O. C. Stine, A. Kreger, , J. G. Morris Jr., and A. Sulakvelidze. Multilocus Sequence Typing for characterization of clinical and environmental *Salmonella* strains. J. Clin. Microbiol. 2002. May. **40**:1626-1635.
17. Kvachantiradze, M., E. Tvalchrelidze, **M. Kotetishvili**, T. Tsitsishvili. The photostabilization of *Bacillus thuringiensis* using clinoptilolite as UV protectant. Bulletin of the Georgian Academy of Sciences. 2001. **163**: 303-306.

18. Turabelidze, D., **M. Kotetishvili**, A. Kreger, J. G. Morris Jr., and A. Sulakvelidze. Improved Pulsed-Field Gel Electrophoresis for typing vancomycin-resistant enterococci. J. Clin. Microbiol. 2000. Nov. **38**:4242-4245.
19. Kvachantiradze, M., E. Tvalchrelidze, **M. Kotetishvili**, T. Tsitsishvili. Application of clinoptilolite as an additive for the photostabilization of the *Bacillus thuringiensis* formulation. Stud. Surf. Sci. Catal. Hungary. 1999. **125**:731-735.
20. Mchedlishvili, Z., I. Kalandadze, T. Kiguradze, L. Shanshiashvili, **M. Kotetishvili,** R. Solomonia, D. Mikeladze. Gminobutyric acid and Ca^{2+} subunit of Calmodul Na-dependent protein kinase II amount in different brain regions of *Kroushinsky Molodkina* rats. Moambe. Journal of the Academy of Sciences of Georgia. 1998. **158**: 498-501.
21. Chkhubianishvili, T., I. Malania, **M. Kotetishvili**. Application of the photostabilized *Bacillus thuringiensis* formulation against *Ocneria dispar* in Georgia. Intl. J. Ecology and Life. Russia. 1998. **3**:10.
22. **Kotetishvili M.** The study of the effect of the liquid Thyringin on the melon aphid. Proceedings of the Georgian Academy of Agriculture. 1997. **34**: 137-141.
23. Chkhubianishvili, T., I. Malania, **M. Kotetishvili.** The photostabilized *Bacillus thuringiensis* formulation. J. Plant Protection and Quarantine. Moscow. Russia. 1997. **5**:16.
24. Chkhubianishvili, T., **M. Kotetishvili.** The biotechnical method for the control of the greenhouse whitefly. Moambe. Journal of the Academy of Sciences of Georgia. 1991, **141**:629-630.

INTERNATIONAL CONFERENCES/WORKSHOPS

1. Saba Kobakhidze, Nata Kakabadze, **Mamuka Kotetishvili**. Lateral genetic transfer driving co-evolutionary interactions of phages of probable industrial importance and their hosts across the Escherichia, Listeria, Salmonella, Campylobacter, and Staphylococcus Domains. International Symposium “Paradigm Shifts for Global One Health”. April 23-25. Wageningen, Netherlands.
2. Saba Kobakhidze, Ketevan Dadiani, Nata Kakabadze, **Mamuka Kotetishvili**. A unique strain of *Clostridium tetani,* isolated from a retail fish market in India, carries in its genome a 1176-bp region being highly homologous to 18S ribosomal RNA loci of eukaryotic origin” at 20th World Congress on Clinical Pediatrics December 09-10, 2022 | Barcelona, Spain.
3. Saba Kobakhidze, Ketevan Dadiani, **Mamuka Kotetishvili**. A genome of the *Citrobacter freundii* strain RTE-E5 from Bangladesh carries the eukaryotic genetic material most closely related to internal loci of the human 18S ribosomal RNA gene and one of the internal transcribed spacers. The 11th Global Microbiological Summit and Expo: Recent Advancements in Medical Microbiology. Nov. 02-03. Rome, Italy.
4. Saba Kobakhidze, Giorgi Mikadze, Ketevan Dadiani, **Mamuka Kotetishvili**. The unusual pattern of bacterial evolution: Genomes of *Clostridium botulinum* and some other bacterial species carry eukaryotic genetic loci involved in coding for 18S and 28S ribosomal subunits. The 2nd World Congress on Food Safety and Nutrition Science. August 22-23, 2022. London, UK.
5. Saba Kobakhidze, Rusudan Barkalaia, Ketevan Dadiani, Giorgi Mikadze, **Mamuka Kotetishvili**. The *Staphylococcus aureus* strains WH9628 and WH3018 recovered from patients in Wuhan, China, were found to carry in their genomes specifically some horse and mouse genetic loci. 17th International Conference on Microbial Interactions and Microbial Ecology. October 05-06, 2022, Zurich, Switzerland.
6. Saba Kobakhidze, Ketevan Dadiani, Giorgi Mikadze, **Mamuka Kotetishvili**. Evidence for the presence of eukaryotic genetic loci in the genome of the *Klebsiella pneumoniae* strain RTE-E3

recovered from ready-to-eat food in Bangladesh. 3rd International Conference on Microbiology and Immunology. November 21-22, 2022, London, UK.

7. Tabatadze Leila, Gabashvili Ekaterine, Kobakhidze Saba, Lomidze George, Loladze Jimsheri, Tsitskishvili Levani, **Kotetishvili Mamuka**. Evolutionary Patterns of Rabies Virus Strains from Georgia Exhibit Risks of Their Transmission and Rabies Coinfections among Dogs and Cattle. One – Health, Environment, Society – Conference. 21-24 June, 2022. EFSA. Brussels.
8. Saba Kobakhidze, Ekaterine Gabashvili, Giorgi Lomidze, Ketevan Dadiani, Marina Lashkhauri, Manana Grdzelishvili, George Lomtatidze, Leila Tabatadze, Tamar Chkhikvishvili, **Mamuka Kotetishvili**. Positive Correlation between the Concentrations of *Escherichia coli* and Coliforms in Drinking Water Samples Collected Across Different Regions of Georgia. 9th World Congress and Expo on Applied Microbiology. October 25-26, 2021, Zurich, Switzerland.
9. Tamar Chkhikvishvili, Leila Tabatadze, Ekaterine Gabashvili, Saba Kobakhidze, **Mamuka Kotetishvili**. Intra-species Recombination as an Additional Mechanism Underlying the Evolution of *Brucella abortus* populations. 9th World Congress and Expo on Applied Microbiology. October 25-26, 2021, Zurich, Switzerland.
10. Givi Basiladze, Leila Tabatadze, Ekaterine Khmaladze, **Mamuka Kotetishvili**. Individuals of the Georgian Mountain Cow Breed Khevsurian Population Exhibit New Haplotypes with Specific Single-Nucleotide Polymorphisms across Their Mitochondrial Genomes that Distinguish Them in a Global Cattle Population. ISAG 2021 Virtual Conference. International Society for Animal Genetics. July 26-30, 2021. USA.
11. Ekaterine Gabashvili, Saba Kobakhidze, Leila Tabatadze, Tamar Chkhikvishvili, Ketevan Dadiani, **Mamuka Kotetishvili**. Antimicrobial Resistance Genes in Coastal Recreational Waters of the Green Cape and Batumi in Georgia: Inferences from the Metagenomic Analyses. June 20-24, 2021. Microbe World Forum. ASM-FEMS.
12. Rusudan Tsiklauri, Ekaterine Gabashvili, Saba Kobakhidze, Leila Tabatadze, Tamar Chkhikvishvili, Ketevan Dadiani, **Mamuka Kotetishvili**. Intra-species Recombination of CmeABC Operon and *gyrA* Loci: A Risk Pathway Underlying the Emergence of Resistance to Fluoroquinolones in Natural Populations of *Campylobacter jejuni*. June 20-24, 2021. Microbe World Forum. ASM-FEMS.
13. N. Bablishvili, N. Tadumadze, M. Akhalaia, N. Shubladze, M. Gegia, R. Aspindzelashvili, I. kalandadze, **M. kotetishvili**. Molecular Patterns of Multidrug Resistance of *Mycobacterium tuberculosis* in Georgia. ICAAC conference, Boston, USA. September 11-12, 2010.
14. **M. Kotetishvili.** The most common drug resistance mutations of Multidrug-resistant *Mycobacterium tuberculosis* in Georgia. The US-Georgian Workshop “Building Human Capacity For Research in HIV, TB and Hepatitis”. Tbilisi, Georgia, July, 27-28, 2010.
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25. Cohen, E., T. Joseph, **M. Kotetishvili.** Diatomite as a possible UV protectant for the photostabilization of *Bacillus thuringiensis. In:* Abstracts, XIVTH International Plant Protection Congress (IPP), Jerusalem, Israel, July 25-30, 1999.
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28. Gomelauri, T., K. Porchkhidze, T. Kartvelishvili, **M.Kotetishvili**, G. Katsitadze, P. Imnadze. "Some properties of *Corynebacterium diphtheriae* strains isolated during a current diphtheria epidemic in Georgia." *In*: Abstracts, International Conference on Emerging Infectious Diseases, Atlanta, GA, 1998. 11.

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2023 Introductory Overview of the G. Natadze Scientific-Research Institute of Sanitary, Hygiene, and Medical Ecology (GNHI). The Governing Board and General Assembly Meeting. The EU Med-Vet-Net Association. March 22-23, 2023, Vienna.

2022 Title: The unusual pattern of bacterial evolution: Genomes of *Clostridium botulinum* and some other bacterial species carry eukaryotic genetic loci involved in coding for 18S and 28S ribosomal subunits. The 2nd World Congress on Food Safety and Nutrition Science. August 22-23, 2022. London, UK.

2022 Title: Evidence for the presence of eukaryotic genetic loci in the genome of the *Klebsiella pneumoniae* strain RTE-E3 recovered from ready-to-eat food in Bangladesh. 3rd International Conference on Microbiology and Immunology. November 21-22, 2022, London, UK.

2022 Title: Epidemiology and risks of foodborne diseases in Georgia: gaps and challenges of food safety research lacking "One Health" approach.
Tbilisi International Conference: Importance of Nutrition in Preventing Disease: Current International Research, Challenges and Opportunities for Georgia. The Great Britain and Ireland Nutrition Society and the Georgian Nutrition Society. Tbilisi, Georgia.

2021 Title: Food safety and animal health/welfare risk assessment challenges in Georgia, and the international collaboration as one of the pathways for problem solutions in the above areas. Workshop on cooperation activities with EFSA and risk assessment. April 22, 2021. EFSA-BIOR-SRCA (Online).

2021 Title: One-health case study: The case of rabies in Georgia. ONE-Health Regional Workshop for East ENP countries. European Food Safety Authority (EFSA). Parma, Italy. December 9, 2021 (Online).

2021 Title: Food safety and animal health/welfare risk assessment challenges in Georgia, and the international collaboration as one of the pathways for problem solutions in the above areas. International Online Workshop on cooperation activities with EFSA and risk assessment. BIOR. Institute of Food Safety, Animal Health, and Environment. Latvia.

2020 Title: Food Safety Risk Assessment Challenges in Georgia. East-ENP Online-Workshop: International Collaboration and Resources for Promoting Food Safety Risk Assessment In ENP Countries. European Food Safety Authority. Italy.

2019 Title: Risk Assessment System of Georgia. The International Workshop "Good Regulatory Practices in Strengthening Georgian Food Laws"; organized by the U.S. Department of Agriculture (USDA). Tbilisi, Georgia

2010 Title: Mechanisms of drug resistance in *Mycobacterium tuberculosis*. The joint Georgian - Norwegian conference "Actual problems of Pulmonology and TB infection". Tbilisi, Georgia. October 4-5. 2010.

2010 Title: The most common drug resistance mutations of Multidrug-resistant *Mycobacterium tuberculosis* in Georgia. Building Human Capacity for HIV, TB and HCV Research; International Workshop organized by the Georgian Infectious Diseases, AIDS and Clinical Immunology Center, the Center of Tuberculosis and Lung Diseases, the Emory University, the New York University, and Johns Hopkins University. Tbilisi, Georgia.

2008 Title: Recombination of chromosomal genes as a mechanism of virulence and environmental persistence in Listeria monocytogenes and Campylobacter. ATCC. Manassas, Virginia, USA.

2008 Title: Mechanisms of drug resistance in bacteria: missense mutations in Mycobacterium tuberculosis and allelic/gene exchange in campylobacter. University of Maryland School of Medicine, Baltimore. Maryland, USA.

2007 Title: Genetic recombination as a mechanism for the species divergence and drug resistance in bacteria. University of Maryland School of Medicine, Baltimore. Maryland, USA.

2007 Title: Population structures and mechanisms of drug resistance of foodborne pathogens. Food and Drug Administration (FDA). U.S. Department of Health and Human Services. Rockville, Maryland, USA.

2006 Title: Horizontal gene transfer as a mechanism for the species divergence and drug resistance in bacteria. University of Maryland School of Medicine, Baltimore, USA.

2005 Title: Intra- and inter-species relationships in the genus of Yersinia. University of Maryland School of Medicine, Baltimore, USA.

2004 Title: Multilocus Sequence Typing (MLST) as an alternative genotyping tool for determining population structures, genotypes and transmission of human pathogenic bacteria. FDA. U.S. Department of Health and Human Services. Rockville, Maryland, USA.

1999 Title: Diatomite as a possible UV protectant for the photostabilization of *Bacillus thuringiensis.* XIVTH International Plant Protection Congress (IPP), Jerusalem, Israel.