

CURRICULUM VITAE (CV)

1. Name

Surname

Ekaterine	Tevdoradze
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2. Contact information

Citizenship: Georgia

Personal E-mail address: etevdoradze@yahoo.com

Work E-mail address: ekaterine.tevdoradze.2@iliauni.edu.ge

3. Work experience

Work Period	From - 2015 to – At present
Employer	Ilia State University
Address of Employer	Kakutsa Cholokashvili Ave 3/5 0162 Tbilisi, Georgia
Position	Associate professor direction - Molecular Microbiology and Virology School of Natural Sciences and Medicine, Institute of Chemical Biology
Duties and Responsibilities	Teaching at bachelor's and master's levels Lectures; Seminars; Laboratory work; Scientific research

Work Period	From 2017 to – At present
Employer	Georgian Accreditation Center (GAC) The Unified National Body of Accreditation
Address of Employer	42a Alexander Kazbegi Ave., Tbilisi, Georgia 0186
Position	Technical Expert

Duties and Responsibilities	Competence – Microbiology, Molecular biology Testing laboratories according to ISO/IEC 17025; ISO/IEC 15189
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Work Period	From - 2009 to - 2015
Employer	G. Eliava Institute of Bacteriophages, Microbiology and Virology, Tbilisi, Georgia
Address of Employer	3 Gotua Ave., 0160, Tbilisi, Georgia
Position	Head of Biosafety committee
Duties and Responsibilities	Monitoring and control of compliance with biosafety standards

Work Period	From - 2006 to - 2015
Employer	G. Eliava Institute of Bacteriophages, Microbiology and Virology, Tbilisi, Georgia
Address of Employer	3 Gotua Ave., 0160, Tbilisi, Georgia
Position	Senior Scientist

Work Period	From - 2002 to - 2006
Employer	G. Eliava Institute of Bacteriophages, Microbiology and Virology, Tbilisi, Georgia
Address of Employer	3 Gotua Ave., 0160, Tbilisi, Georgia
Position	Junior research worker

4. Educational and scientific degrees

Date	2013
Institution(Faculty)	Ilia State University, School of Natural Sciences and Engineering, Tbilisi, Georgia
Specialty	Molecular Biology

Qualification	PhD in Molecular Biology (Life Sciences).
Dissertation Title	Genome analysis of Staphylococcal Bacteriophage Sb-1 and study of phage-specific Recombinant clones with lethal activity

Date	From - 2007 to - 2013
Institution(Faculty)	Ilia State University. Department of Art and Sciences, Tbilisi, Georgia
Specialty	Molecular Biology
Qualification	PhD student

Date	From - 1992 to - 1998
Institution (Faculty)	Tbilisi State University, Tbilisi, Georgia Faculty of Biomedical Ecological Genetics.
Specialty	Biology
Qualification	A Master of Science in Biological Sciences

5. Additional educational courses/trainings

Date	January 31, 2024
Institution	Georgian Accreditation Center (GAC)
Training/Course Topic	Basic course for experts – Medical Laboratory Standard (ISO/IEC 15189: 2012/2015)

Date	31 May to 4 June 2021
Institution	Georgian Accreditation Center (GAC)
Training/Course Topic	“Training of Trainers (TOT) to increase the competence of national experts of Georgia on improving QMS of laboratories in accordance with ISO/IEC17025:2017”

Date	2019
Institution	Ilia State University
Training/Course Topic	Blanded teaching Learning: Improving students outcomes

Date	18-19 March 2019
Institution	Georgian Accreditation Center (GAC)
Training/Course Topic	Basic course for experts - Laboratory Standard (ISO/IEC 17025:2005)

Date	8-9 April, 2019
Institution	Ilia State University
Training/Course Topic	FEBS WORKSHOP ON MOLECULAR LIFE SCIENCES EDUCATION Towards a Blended Integrated Learning Ideas for Science Instruction

Date	April 18, 2019
Institution	Physikalisch-Technische Bundesanstalt PTB
Training/Course Topic	„Risk assessment and Decision Rules” testing and calibration laboratories

Date	October 28, 2017
Institution	Georgian Accreditation Center (GAC)
Training/Course Topic	BASICS OF QUALITY ASSURANCE (QA) European program for life-long learning about how to interpret the metrological requirements ISO/IEC 17025 for chemical and bio-analytical measurements 17025:2010 (ISO/IEC 17025:2005)

Date	October 1-30, 2013
Institution	DTRA/Battelle

Training/Course Topic	Biosafety Level 3 operational skills training course
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Date	May 10-13, 2011 Winnipeg, Manitoba, Canada
Institution	Canadian science center for Human and Animal Health
Training/Course Topic	3 rd Annual Laboratory Biorisk Management systems workshop

Date	September 26, 2011 Tbilisi, Georgia
Institution	Defense Threat reduction Agency USA (DTRA)
Training/Course Topic	Biosafety Trainers Training

Date	October 16-22, 2008, RENO, NV,USA May 18, 2009, Almaty, Kazakhstan
Institution	Defense Threat reduction Agency USA (DTRA)
Training/Course Topic	Biological threat reduction program Laboratory Biorisks: Implementing a Management system Biosafety Risk Assessment

6. Research papers published over the last ten years

1. Chitadze, Lela, Ekaterine Tevdoradze, Tamar Kiguradze, Brian J. McCabe, and Revaz Solomonias. "Filial imprinting in domestic chicks; cytoplasmic polyadenylation element binding protein 3, predispositions and learning." *NeuroReport* 34, no. 3 (2023): 144-149.
2. Balarjishvili, N., L. Kvachadze, E. Tevdoradze, N. Skhirtladze, L. Leshkasheli, D. Bolkvadze, T. Pataridze et al. "Significance of lysogeny for the metabolism of *Desulfovibrio* spp. strains isolated from aquatic environments of Georgia." *Journal of applied microbiology* 131, no. 3 (2021): 1344-1359.
3. Margvelani, Giorgi, Maia Meparishvili, Ekaterine Tevdoradze, Brian J. McCabe, and Revaz Solomonias. "Mitochondrial fusion and fission proteins and the recognition memory of imprinting in domestic chicks." *Neuroreport* 29, no. 2 (2018): 128-133.
4. Antadze, I., M. Dadunashvili, S. Gunia, N. Balarjishvili, E. Tevdoradze, T. Pataridze, O. Rj, S. Hagijs, and P. Elzer. "Diversity of phage-host specificity in *Brucella* phage." *J Bacteriol Mycol* 4 (2017): 1049.
5. Ekaterine Tevdoradze, Jason Farlow, Adam Kotorashvili, Natia Skhirtladze, Irina Antadze, Sophio Gunia, Nana Balarjishvili, Leila Kvachadze and Mzia Kutateladze. Whole genome

sequence comparison of ten diagnostic brucellaphages propagated on two *Brucella abortus* hosts. *Virology Journal* (2015) 12:66 DOI 10.1186/s12985-015-0287-3

6. Balarjishvili, N. Sh, L. I. Kvachadze, M. I. Kutateladze, T. Sh Meskhi, T. K. Pataridze, T. A. Berishvili, and E. Sh Tevdoradze. "New virulent bacteriophages active against multiresistant *Pseudomonas aeruginosa* strains." *Applied biochemistry and microbiology* 51, no. 6 (2015): 674-682.
7. Tevdoradze, Ekaterine, Leila Kvachadze, Mzia Kutateladze, and Charles R. Stewart. "Bactericidal genes of staphylococcal bacteriophage Sb-1." *Current microbiology* 68, no. 2 (2014): 204-210.
8. Kvachadze, Leila, Nana Balarjishvili, Tamila Meskhi, Ekaterine Tevdoradze, Natia Skhirtladze, Tamila Pataridze, Revaz Adamia et al. "Evaluation of lytic activity of staphylococcal bacteriophage Sb-1 against freshly isolated clinical pathogens." *Microbial biotechnology* 4, no. 5 (2011): 643-650.
9. Kutateladze, M. I., E. S. Tevdoradze, N. S. Balarjishvili, N. R. Skhirtladze, R. S. Adamia, and T. I. Tophuria. "Characterization of bacterial strains isolated from the CF patients in Georgia and evaluation of the efficacy of phage treatment." *Journal of Cystic Fibrosis* 8 (2009): S29.

Publications in Georgian and Russian referenced journals:

1. Bolkvadze, D., E. Tevdoradze, N. Skhirtladze, L. Leshkasheli, L. Kvachadze, N. Balarjishvili, and M. Kutateladze. "The identification of species of the *desulfovibrio* genus, isolated in georgia." *Proceedings of the Georgian National Academy of Sciences* 40, no. 3-4 (2014): 83-92.
2. L.Kvachadze, M.Kutateladze, N.Balarjishvili, R.Pataridze, N.Nikolaishvili, E.Tevdoradze, R.Adamia, Proteins with antimicrobial activity, coded by the genome of staphylococcal bacteriophages Sb-1. (2011) *Molecular Medicine*, N5, pp.41-46.
3. E.Tevdoradze, L.Leshkasheli, T.Meskhi, N.Skhirtladze, N.Balarjishvili, M.Kutateladze. Isolation and characterization of lytic bacteriophages against *Acinetobacter baumannii*. (2011) *Proc. Georgian Acad.Sci.,Biol.Ser.A.*, № 1., v.37, pp.45-55.
4. L.Kvachadze, M.Kutateladze, E.Tevdoradze, N.Balarjishvili, N.Skhirtladze, N.Nikolaishvili, R.Adamia. Cloning of lethal genes of staphylococcal bacteriophage Sb-1. (2007) *Proc. Georgian Acad.Sci.,Biol.Ser.A.*, № 1., v.33, pp. 35-46
5. E.Tevdoradze, M.Kutateladze, L.Kvachadze, N.Balarjishvili, N.Nikolaishvili, R.Adamia. Construction and characterization of recombinant bacterial clones with several lethal genes of Sb-1 phage. (2006) *Proc. Georgian Acad.Sci.,Biol.Ser.A.*, № 6., v.32, pp.1177-1185
6. E.Tevdoradze, M.Kutateladze, L.Kvachadze, N.Balarjishvili, N.Nikolaishvili, R.Adamia. Selection of resistant mutants of the recombinant bacterial clone with Sb-1 phage lethal gene. (2006) *Proc. Georgian Acad.Sci.,Biol.Ser.A.*, № 5., v.32, pp.985-993

7. Participation in scientific conferences over the last ten years

1. FEBS 4th conference, December 3, 2022, Tbilisi, Georgia.
2. FEBS WORKSHOP ON MOLECULAR LIFE SCIENCES EDUCATION. Towards a blended integrated learning: ideas for science instruction. April 8-9, 2019. Tbilisi, Georgia
3. 7th International Conference on *Bacillus anthracis*, *B.cereus* and *B. Thuringiensis*. October 27-31, 2015 New Delhi, India. (Abstract/ poster presentation - Bacteriophages against *Bacillus anthracis*)
4. Brucellosis 2014, International Research Conference. September 9-12, 2014. Berlin, Germany. (poster presentation - Phage-host interaction peculiarities in *Brucella* bacteriophages)

5. EMBO Conference on Viruses of Microbes III: Structure and Function – from molecules to Communities. July 14-18, 2014. Swiss Federal Institute of Technology (ETH). Zurich, Switzerland. (poster presentation-Phage-host interaction peculiarities in *Brucella* bacteriophages)
6. EMBO Conference on Viruses of Microbes III: Structure and Function – from molecules to Communities. July 14-18, 2014. Swiss Federal Institute of Technology (ETH). Zurich, Switzerland. (poster presentation - Bacteriophages of Sulfate Reducing Bacteria).
7. 66th Annual Brucellosis Research Conference. December 7-8, 2013. Chicago, Illinois. (poster presentation- Comparative genome studies of *Brucella* phage for typing.)
8. ASM 113th General Meeting. May 18-21, 2013. Denver, Colorado. (poster presentation - *Brucella* Bacteriophages – phage-host cell interaction peculiarities).
9. International conference of Bacteriophages and Probiotics-Alternatives to Antibiotics. 1-4 July, 2012. Tbilisi, Georgia. (poster presentation - Isolation and study of *Vibrio*-specific phages for prevention and treatment of diseases in Mediterranean fish)
10. International conference of Bacteriophages and Probiotics-Alternatives to Antibiotics. 1-4 July, 2012. Tbilisi, Georgia. (poster presentation - Biodiversity of Georgian Isolates of Sulfur-Reducing Bacteria and Identification of Virulent Bacteriophages against SRB)
11. 12th CDC International Symposium on Biosafety. Sustainability- People-Practices-Planet. February 11-15, 2012. Atlanta, Georgia.
12. 3rd Annual conference. BACAC: Lessons learned-what works and what doesn't. (poster presentation).September 27-30, 2011. Tbilisi, Georgia.
13. 111th ASM General Meeting. May 21-24, 2011. New Orleans, Louisiana.
14. 3rd Annual Laboratory Biorisk Management Systems Workshop. May 10-13, 2011. Winnipeg, Manitoba, Canada.

8. Grants received from scientific projects over the last ten years.

1. 2014-2016 – DTRA/CRDF 60353 - Center for Pathogen Research and Education (CPRE)
2. 2013-2015 - DTRA/CRDF GRG 01/13 - Characterization of mechanisms of adaptive phage-host co-evolution using next generation sequencing and phenotypic profiling.
3. 2013-2015 - FP7 IRES, MARIE CURIE INTERNATIONAL RESEARCH STAFF EXCHANGE SCHEME - Anthrax environmental decontamination network.
4. 2013-2015 -DTRA GG19 - Epidemiology of *F.tularensis* in Georgia.
5. 2012-2013 – GRDF/Rustaveli Foundation, STAP- BPG#02/12 – Bacteriophage as a safe and cost effective decontamination alternative.
6. 2011-2012 - DTRA TAP3 - Comparative whole genome sequencing of diagnostic *Brucella* phages.
7. 2010-2013 - IRSES-GA-2009-269175, FP7- MARIE CURIE INTERNATIONAL RESEARCH STAFF EXCHANGE SCHEME) AQUAPHAGE - Network for the development of phage therapy in aquaculture.
8. 2010-2012 - STCU P448 – Study of the role of bacteriophages in the biology of sulfatereducing bacteria.
9. 2008-2011-DTRA/CBR GG17- Clinical, Epidemiologic and Laboratory Based Assessment of Brucellosis in Georgia
10. 2009-2010 - Novozyme project-Identification and basic characterization of bacteriophages against bacterial strains that cause malodour.
11. 2007-2008 - Ministry of Rural development and Food of Greece. Isolation and characterization of

- Bacteriophages against Fish pathogens. Hellenic Center of Marine Research (HCMR).
12. 2007-2008 - CF-1, grant from PhageBiotics Foundation, USA “Characterization of bacterial strains isolated from the patients with CF in Georgia and Clinical examination after phage therapy”
 13. 2005-2009 - CRDF-GEB2-1958-TB-05 (DTRA GG-13) - Isolation, distribution, and biodiversity of selected vibrios and their bacteriophages from aquatic environments in Georgia.
 14. 2004-2007 - ISTC G510 – Bacteriophages against antibiotic resistant Staphylococcus aureus and Pseudomonas aeruginosa infections.

9. Lecture courses conducted at Georgian and foreign Universities over the last ten years.

Course name	University
Bachelor’s level - Molecular Biology; - Microbiology and Virology	Ilia State University 2016-2024 Fall Semester 2016-2024 Spring Semester
Master’s Level - Selected Topics in Molecular Biology - Research Methods in Molecular Biology, Biotechnology and Bioinformatics - Viruses of Microbes	Ilia State University 2016-2024 Spring Semester
Medicine (One-cycle Educational) - General Microbiology and Bacteriology	Ilia State University 2020-2024 Fall Semester 2020-2024 Spring Semester

10. Scientific interests/research interests

- Microbiology - Study of antibiotic resistance mechanisms of pathogenic microorganisms
- Molecular Biology – Genome research
- Study of Molecular mechanisms of phage-bacteria interaction

11. language skills

Georgian – Native; English – C1; Russian – C1