



Georgian National Academy of Sciences



Personal Data (CV)

Surname	Khatisashvili	First Name	Gia
Address (work, home)	Work: Kakha Bendukidze Campus, 240 David Aghmashenebeli Alley, Tbilisi, 0159, Georgia Home: Didi Dighomi, 3 rd microdistr., b. 15, ap. 222, Tbilisi, 0159, Georgia	Date and place of birth	18.01.1963 Mtskheta, Georgia
Citizenship	Goergia	Telephone number(s)	+995599145298 (mob.) +995322539049 (home)
E-mail	g.khatisashvili@agrni.edu.ge g.khatisashvili@gmail.com g_khatisashvili@yahoo.com		

3. Education

Education	Institution	Learning Time
Secondary	Mtskheta Secondary School	1969-1979
Higher	Tbilisi State University, Faculty of Chemistry	1979-1984
Postgraduate study, doctoral candidacy		

4. Knowledge of Languages

Foreign languages	Level of language proficiency (fluent, intermediate, beginning with the help of a dictionary)
Russian	Fluent
English	with the help of a dictionary
French	with the help of a dictionary

5. Scientific or Academic Degree and Rank

	Title of the thesis	Date of conferment	Degree
Ph.D. thesis	The monooxygenase system of plant microsomal membranes	12.04.1991	Candidate of Biological Sciences

Doctoral thesis	Plant monooxygenases: detoxification of xenobiotics and intracellular energetics	19.11.1999	Doctor of Biological Sciences
Academician Doctor			
Professor	Xenobiochemistry	2020	
Corresponding Member of the Academy	Department of Biological Sciences	11.12.2024	
Member of the Academy			

6. Work Experience

Date	Institution	Position
From 2009	Durmishidze Institute of Biochemistry and Biotechnology of Agricultural University of Georgia	Head of Laboratory of Biological Oxidation
2006-2009	Durmishidze Institute of Biochemistry and Biotechnology of the Georgian National Academy of Sciences	Chief Scientist
2000-2006	Durmishidze Institute of Biochemistry and Biotechnology of the Georgian National Academy of Sciences	Principal Scientist
1993-2000	Durmishidze Institute of Biochemistry and Biotechnology of the Georgian National Academy of Sciences	Senior Research Scientist
1989-1993	Institute of Plant Biochemistry of the Georgian National Academy of Sciences	Research Scientist
1984-1989	Institute of Plant Biochemistry of the Georgian National Academy of Sciences	Laboratory Assistant
From 2011	National Assessment and Examinations Center of Georgia (NAEC)	Head of Chemistry Group
2006-2011	National Assessment and Examinations Center of Georgia (NAEC)	Consulting Chemistry Expert for Science Group

6.1 Teaching Activity

Date	Institution	Position
From 2020	Agricultural University of Georgia	Full Professor
2017-2020	Agricultural University of Georgia	Assistant Professor
2011-2017	Agricultural University of Georgia	Associate Professor

6.2 Work Abroad

Form of activity	Date	Place and Institution
Delivering a course of lectures at foreign higher education institutions		
Long-term academic mission to research institutions		
Other		

7. Sphere of Scientific Interests

Xenobiochemistry
Ecological chemistry
Study of mechanisms of detoxification of xenobiotics in plant cells

Study of biochemical bases of phytoremediation technologies
Development of phytoremediation technologies

8. Publications (Total number, indicating the Citation Index (*number*))

Total number - 130, Citation Index - 1356, h-index - 16 (according to Google scholar)

8.1 Monographs

Years	
2023	Kvesitadze E., Gakhokidze R., Khatisashvili G., Kvesitadze G. Ecological and Food Potential of the Earth. Tbilisi, Favorite, 2023, 215 pages. (Monograph, <i>in Georgian</i>)
2022	Khatisashvili G., Varazi T., Kurashvili M., Pruidze M., Bunin E., Didebulidze K., Butkhuzi T., Bakradze E., Asatiani N., Kartvelishvili T., Sapojnikova N. Remedial Approaches against Arsenic Pollution. In: Arsenic Monitoring, Removal and Remediation (Edited by Margarita Stoytcheva and Roumen Zlatev), IntechOpen, DOI: 10.5772/intechopen.98779. Available from: https://www.intechopen.com/online-first/remedial-approaches-against-arsenic-pollution 2022, pp. 59-77 (Chapter in book)
2021	Sadunishvili T.A., Khatisashvili G.A., Gurova O.S., Samarskaya N.S. Innovative Methodologies for Environmental Protection. Part 1. Global Environmental Problems and the Biotechnological Approach. Rostov on Done, Publ. DSTU, 2021, 145 pages (Monograph, <i>in Russian</i>)
2015	Kvesitadze G., Khatisashvili G., Sadunishvili T., Kvesitadze E. Plants for remediation: uptake, translocation and transformation of organic pollutants. In: Plants, Pollutants and Remediation, Eds: Öztürk M., Ashraf M., Aksoy A., Ahmad M.S.A., Hakeem K.R. Springer, Dordrecht, Heidelberg, New York, London, 2015, pp. 241-308 (Chapter in book)
2014	Khatisashvili G., Gakhokidze R., Matchavariani L. Improving of Phytoremediation of Soil Polluted with Oil Hydrocarbons in Georgia. In: Soil Remediation and Plants. Eds: Hakeem K., Sabir M., Ozturk M., Murmet A. Elsevier, Academic Press, 2014, pp. 547-569 (Chapter in book)
2014	Kvesitadze G., Khatisashvili G., Sadunishvili T. Metabolism of ¹⁴ C-Containing Contaminants in Plants and Microorganisms. In: Radionuclide Contamination and Remediation Through Plants. Eds: Gupta D.K., Walther C. Springer, Dordrecht, Heidelberg, New York, London, 2014, pp. 253–276 (Chapter in book)
2013	Gordeziani M., Khatisashvili G. Enzymes. Conformation changes of hemoproteins, chemical modification and modeling. Tbilisi, Mtsignobari, 2013, 215 pages. (Monograph, <i>in Georgian</i>)
2011	Gordeziani M., Khatisashvili G., Varazi T., Kurashvili M., Pruidze M. Xenobiochemistry with bases of ecological chemistry. Tbilisi, Stambacomi, 2011, 322 გვ. (Monograph, <i>in Georgian</i>)
2009	Khatisashvili G., Gordeziani M., Varazi T., Kurashvili M., Pruidze M. Oxigenases of Biomembranes (Physiology and Biochemistry). Tbilisi, Saqmatsne Publishers, 2009, 338 pages. (Monograph, <i>in Georgian</i>)
2008	Gordeziani M., Khatisashvili G. Chemical modification of cytochrome P450. Tbilisi, Agrarikosi, 2008, 37 გვ. (Monograph, <i>in Georgian</i>)
2006	Kvesitadze G., Khatisashvili G., Sadunishvili T., Ramsden J.J. Biochemical Mechanisms of Detoxification: Basis of Phytoremediation. Berlin, Heidelberg, Springer, 2006, 262 p. (Monograph)
2005	Gordeziani M., Khatisashvili G. Membrane xenobiochemistry. Tbilisi, Agrarikosi, 2005, 281 pages. (Monograph, <i>in Georgian</i>)
2005	Kvesitadze G., Khatisashvili G., Sadunishvili T., Evisigneeva Z.G. Metabolism of anthropogenic toxicants in higher plants. Moscow, Nauka, 2005, 200 pages. (Monograph, <i>in Russian</i>)
2005	Papunidze V., Khatisashvili G., Sadunishvili T. Plants for healthy planet. Batumi, Adjara, 2005, 229 pages. (Monograph, <i>in Georgian</i>)
2004	Gordeziani M., Khatisashvili G., Kirtadze E. Bioenergetic and Regulation of Oxidative Processes. Tbilisi, Stambacomi, 2004, 248 pages. (Monograph, <i>in Georgian</i>)

8.2 Principal Papers (no more than 50)

Years	
2024	Tabagari I., Varazi T., Dumbadze N. Kurashvili M., Pruidze M., Khatisashvili G., Karpenko O., Koretska N. Biological two-stage treatment technology for mitigating mining-related heavy metal pollution in Georgian rivers. Discover Water 2024, 4, 87. https://doi.org/10.1007/s43832-024-00128-3
2023	Elizbarashvili E., Khatisashvili G., Butkhuzi T., Khatisashvili T., Ezugbaya L., Bukia M., Ramishvili Ts. English-Georgian and Georgian-English explanatory online dictionary of chemistry terminology. <i>International Journal of Multilingual Education</i> , 2023, 22, 121-134 https://multilinguaeducation.openjournals.ge/index.php/ijml/article/view/7690/7631

2023	Kvesitadze G., Khatisashvili G. Biotechnology for cleaning up soils from explosives. Science and Science of Science. 2023, 1 (119): 47-56 https://doi.org/10.15407/sofs2023.01.047
2022	Tabagari, I., Varazi, T., Chokheli, L. Kurashvili M., Pruidze M., Khatisashvili G., Karpenko O., Lubenets V., von Fragstein und Niemsdorff. Enhancement of Spirulina platensis Remediation Action Using Biosurfactants for Wastewater Treatment. International Journal of Environmental Research, Springer, 2022, 16, 14 https://doi.org/10.1007/s41742-022-00392-y
2021	Asatiani N., Bakradze E., Butkhuzi T., Didebulidze K., Gujabidze A., Kartvelishvili T., Khatisashvili G., Khmiadashvili S., Kurashvili M., Pruidze M., Razmadze D., Sapojnikova N., Varazi T. Microorganisms and Plants as Tools for Phytoremediation of Soil Polluted with Different Forms of Arsenic. Journal of Agrarian Sciences, 2021, 19 (4), 360-363
2021	Asatiani N., Abuladze M., Kartvelishvili T. Osepashvili M., Shengelaya A., Daraselia D., Japaridze D., Khatisashvili G., Varazi T. Holman H.-Y., Sapojnikova N. Copper (II) Ion Action on Soil Bacteria. Water Air Soil Pollut 2021, 232, 355 https://doi.org/10.1007/s11270-021-05317-7
2020	Tabagari I., Chokheli L., Adamia G., Kurashvili M., Varazi T., Pruidze M., Khatisashvili G., P. v Ragstein und Niemsdorff. The Effectiveness of Arthrospira platensis for the Purification of Copper-Contaminated Water. Water Air Soil Pollut, 2020, 231, 470 https://doi.org/10.1007/s11270-020-04841-2
2020	Bunin E., Khatisashvili G., Varazi T., Kartvelishvili T., Asatiani N., Sapojnikova N. Study of Arsenic-Contaminated Soil Bacterial Community Using Biochip Technology. Water Air Soil Pollut, 2020, 231, 198 https://doi.org/10.1007/s11270-020-04575-1
2019	Tabagari I., Kurashvili M., Varazi T., Adamia G., Gigolashvili G., Pruidze M., Chokheli L., Khatisashvili G., P. v Ragstein und Niemsdorff. Application of Arthrospira (Spirulina) platensis against chemical pollution of water. Water, 2019, 11(9), 1759 https://doi.org/10.3390/w11091759
2019	Kurashvili M., Adamia G., Varazi T., Khatisashvili G., Gigolashvili G., Pruidze M., Chokheli L., Japharashvili S. Application of Blue-green Alga Spirulina for removing Caesium ions from polluted water. Annals of Agrarian Science, 2019, 17, 2, 153-157
2019	Adamia G., Gordeziani M., Karpenko E., Karpenko O., Khatisashvili G., Kurashvili M., Pruidze M., Varazi T. Improving of Copper (II)-Ions phytoextraction by Using Glycolipid Biosurfactants. Annals of Agrarian Science, 2019, 17, 1, 9-15
2018	Adamia G., Chogovadze M., Chokheli L., Gigolashvili G., Gordeziani M., Khatisashvili G., Kurashvili M., Pruidze M., Varazi T. About possibility of alga Spirulina application for phytoremediation of water polluted with 2,4,6-trinitrotoluene. Annals of Agrarian Science, 2018, 16, 3, 348-351
2018	Kurashvili M., Varazi T., Khatisashvili G., Gigolashvili G., Adamia G., Pruidze M., Gordeziani M., Chokheli L., Japharashvili S., Khuskivadze N. Blue-green Alga Spirulina as a Tool Against Water pollution by 1,1'-(2,2,2-Trichloroethane-1,1-diyl)bis(4-chlorobenzene) (DDT). Annals of Agrarian Science, 2018, 16, 4, 405-409
2018	Kvesitadze G., Meskhi B.Ch., Khatisashvili G. Three stage biotechnology for the rehabilitation of soils polluted with explosives. Science Almanac of Black Sea Region Countries, 2018, 13(1), 53-67
2016	Kurashvili M., Adamia G., Amiranashvili L., Ananiashvili T., Pruidze M., Varazi T., Gordeziani M., Khatisashvili G. Targeting of detoxification potential of microorganisms and plants for cleaning environment polluted by organochlorine pesticides. Annals of Agrarian Science, 2016, 14, 3, 222-226
2016	Kurashvili M., Varazi T., Pruidze M., Adamia G., Gagelidze N., Ananiashvili T., Gordeziani M., Khatisashvili G. New approaches and tools for rehabilitation of chemically contaminated soils. Proceeding of the Georgian National Academy of Sciences, Chemical series, 2016, 42, 3, 406-409
2015	Gordeziani M., Kurashvili M., Khatisashvili G., Adamia G. Bioactivation of molecular oxygen – phenomenon of enzyme self-inactivation and the apoptosis. Annals of Agrarian Science, 2015, 13, 2, 19-33
2015	Varazi T., Kurashvili M., Pruidze M., Khatisashvili G., Gagelidze N., Adamia G., Zaalishvili G., Gordeziani M., Sutton M. A new approach and tools for perfecting phytoremediation technology. American Journal of Environmental Protection, Science PG, ISSN, 2015, 4, 3, 143-147
2014	Kurashvili M.V., Adamia G.S., Ananiashvili T.I., Varazi T.G., Pruidze M.V., Gordeziani M.S., Khatisashvili G.A. Plants as tools for control and remediation of the environment polluted by organochlorine toxicants. Annals of Agrarian Science, 2014, 12, 3, 84-87
2014	Amiranashvili L., Kurashvili M., Adamia G., Gagelidze N., Varsimashvili Kh., Tolordava L., Ananiashvili T., Khatisashvili G. Lindane degradarion ability of Pseudomonas strains isolated soils of Georgia. Annals of Agrarian Science, 2014, 12, 3, 18-21
2009	Khatisashvili G., Gordeziani M., Adamia G., Kvesitadze E., Sadunishvili T., Kvesitadze G. Higher Plants Ability to Assimilate Explosives. World Academy of Science, Engineering and Technology, 2009, 57, 265-270
2009	Khatisashvili G., Pruidze M., Adamia G., Bandzeladze S., Kipiani A., Chubinidze A. The Induction of Peroxidase and Phenoloxidase in Plant Leaves by Systemic Pesticides. Annals of Agrarian Sciences, 2009, 7, 4, 63-65
2009	Kurashvili M., Gordeziani M., Varazi T., Ananiashvili T., Kordzadze N., Chubinidze A. The Influence of Systemic Fungicides in vivo of Functioning of Some Oxidases of Plants. Annals of Agrarian Science, 2009, 7, 2, 53-56

2006	Adamia G., Ghoghoberidze M., Graves D., Khatishashvili G., Kvesitadze G., Lomidze E., Ugrekhelidze D., Zaalishvili G. Absorption, distribution and transformation of TNT in higher plants. <i>Ecotoxicology and Environmental Safety</i> , 2006, 64, 136-145
2006	Pruidze M.V., Khatishashvili G.A., Omiadze N.T. Oxidation of organic xenobiotics by phenoloxidase from tea leaves. <i>Annals of Agrarian Science</i> , 2006, 4, 2, 69-72
2005	Best E.P.H., Kvesitadze G., Khatishashvili G., Sadunishvili T. Plant processes important for the transformation and degradation of explosives contaminants. <i>Zeitschrift für Naturforschung</i> , 2005, 60c, 340-348
2005	Zaalishvili G., Varazashvili T., Ananiashvili T., Khatishashvili G., Kvesitadze E. Ultrastructural Reorganization of plant cell in the process of xenobiotics metabolism. <i>Annals of Agrarian Science</i> , 2005, 3, 3, 117-122
2004	Kvesitadze G., Khatishashvili G., Sadunishvili T. Mechanisms to Detoxify Selected Organic Contaminants in Higher Plants and Microbes, and Their Potential Use in Landscape Management. Letter report. Contract number 62558-04-P-6107. European Research Office, U.S. Army Engineer Research and Development Center, United Kingdom, 2004, 144 p
2004	Khatishashvili G., Kvesitadze G., Adamia G., Gagelidze N., Sulamanidze L., Ugrekhelidze D., Zaalishvili G., Ghoghoberidze M., Ramishvili M. Bioremediation of contaminated soils on the former military locations and proving grounds in Georgia. <i>Journal of Biological Physics and Chemistry</i> , 2004, 4, 3, 162-168
2004	Tinikashvili L., Varsimashvili K., Gagelidze N., Amiranashvili L., Chrikishvili D., Kirtadze E., Khatishashvili G., Ghoghoberidze M. Influence of temperature on growth and degradation ability of microorganisms capable for degradation of 2,4,6-trinitrotoluene and mineral oil. <i>Proceedings of the Georgian Academy of Sciences, Biological Series A</i> . 2004, 30, 4, 493-497
2004	Varsimashvili Kh., Tinikashvili L., Amiranashvili L., Gagelidze N., Kirtadze E., Khatishashvili G., Ghoghoberidze M. Influence of some physicochemical factors in different microorganisms capable for degradation of 2,4,6-trinitrotoluene and mineral oil. <i>Proceedings of the Georgian Academy of Sciences, Biological Series B</i> . 2004, 2, 3-4, 104-109
2003	Adamia G., Khatishashvili G., Varazashvili T., Ananiashvili T., Gvakharia V., Adamia T., Gordeziani M. Determination of the type and rate of soil contamination with heavy metals and organic toxicants on the territories of military proving grounds in Georgia. <i>Bulletin of the Georgian Academy of Sciences</i> , 2003, 167, 1, 155-158
2003	Kiskeidze E., Zaalishvili G., Ebelashvili M., Khatishashvili G., Kurashvili M., Gordeziani M. Changes of plant monooxygenase system during xenobiotic oxidation. <i>Proceedings of the Georgian Academy of Sciences, Biological Series A</i> . 2003, 29, 5-6, 639-644
2003	Kuchukashvili Z., Davitaia G., Gorozia I., Kvesitadze G., Lomidze E., Khatishashvili G. Antioxidant characteristics of phenolic compounds of <i>Satureia hortensis</i> . <i>Journal of Biological Physics and Chemistry</i> , 2003, 3, 3/4, 85-88
2003	Kurashvili M., Pruidze M., Kiskeidze E., Varazashvili T., Ananiashvili T., Khatishashvili G., Gordeziani M. Influence of different factors on nitrobenzene oxidation in the plant cell. <i>Journal of Biological Physics and Chemistry</i> , 2003, 3, 2, 45-49
2001	Kvesitadze G., Gordeziani M., Khatishashvili G., Sadunishvili T., Ramsden J.J. Some aspects of the enzymatic basis of phytoremediation. <i>Journal of Biological Physics and Chemistry</i> , 2001, 1, 2, 49-57
2001	Varazashvili T., Khatishashvili G., Kurashvili M., Pruidze M., Ananiashvili T., Zaalishvili G., Gordeziani M. Nitrobenzene oxidizing enzymes in plant cells. <i>Journal of Biological Physics and Chemistry</i> , 2001, 1, 85-88
2000	Kiskeidze E., Khatishashvili G., Kurashvili M., Shavgulidze G. Action of lipid peroxidation on monooxygenase System participating in xenobiotic detoxification. <i>Bulletin of the Georgian Academy of Sciences</i> , 2000, 162, 1, 156-158
2000	Korte F., Kvesitadze G., Ugrekhelidze D., Gordeziani M., Khatishashvili G., Buadze O., Zaalishvili G., Coulston F. Review: Organic toxicants and plants. <i>Ecotoxicology and Environmental Safety</i> , 2000, 47, 1, 1-26
2000	Zaalishvili G., Khatishashvili G., Ugrekhelidze D., Gordeziani M., Kvesitadze G. Plant potential for detoxification (Review). <i>Applied Biochemistry and Microbiology</i> , 2000, 36, 5, 443-451
1999	Gordeziani M., Khatishashvili G., Ananiashvili T., Varazashvili T., Kurashvili M., Kvesitadze G., Tkhelidze P. Energetic significance of plant monooxygenase individual components participating in xenobiotic degradation. <i>International Biodeterioration and Biodegradation</i> , 1999, 44, 49-54
1997	Khatishashvili G., Gordeziani M., Kvesitadze G., Korte F. Plant monooxygenases: participation in xenobiotic oxidation. <i>Ecotoxicology and Environmental Safety</i> , 1997, 36, 118-122
1994	Khatishashvili G., Kurashvili M., Gordeziani M., Kvesitadze G. Functional evolution of separate components of plant monooxygenase system involved in xenobiotic detoxication. <i>Fresenius Environmental Bulletin</i> , 1994, 3, 621-626
1993	Khatishashvili G., Kurashvili M., Chkhikvishvili I., Gordeziani M., Kvesitadze G. Transformation of monooxygenase mechanism into peroxidase one and microsomal oxidation of flavonoids in plants. <i>Proceedings of the Georgian Academy of Sciences, Biological Series</i> , 1993, 19, 318-323 (<i>in Russian</i>)
1993	Khatishashvili G., Kurashvili M., Gordeziani M., Kvesitadze G. Monooxygenase and peroxidase pathways of xenobiotics detoxication in higher plants. <i>Fresenius Environmental Bulletin</i> , 1993, 2, 103-108
1991	Gordeziani M., Khatishashvili G., Kurashvili M. Distribution of NADPHcytochrome P-450-reductase in plant cell.

	Bulletin of the Georgian Academy of Sciences, 1991, 143, 3, 321-324 (<i>in Russian</i>)
1991	Gordeziani M., Khatisashvili G., Kvesitadze G. Free and coupled with hydroxylation of xenobiotics oxidation of NADPH. Doklady AN SSSR, 1991, 320, 2, 417-420 (<i>in Russian</i>)
1987	Gordeziani G., Durmishidze S., Khatisashvili G., Adamia G., Lomidze, E. Investigation of biosynthetic and detoxificational ability of plant cytochrome P-450. Doklady AN SSSR, 1987, 295, 6, 1491-1493 (<i>in Russian</i>)
1987	Gordeziani M., Khatisashvili G., Adamia G., Lomidze E. The capacity of cytochrome P-450 to switch transferring from “endogenous“ to “exogenous” regime of metabolism. Bulletin of the Georgian Academy of Sciences. 1987, 126, 1, 161-164 (<i>in Russian</i>)
1986	Khatisashvili G., Adamia G., Gordeziani M., Lomidze E., Brisker V. Polarographic studies of plant microsome hydroxylation ability. Bulletin of the Georgian Academy of Sciences. 1986, 123, 3, 621-623 (<i>in Russian</i>)

8.3 Textbooks, Additional Manuals, and other Methodological Literature and Training means

Years	
2018	Gordeziani M., Khatisashvili G., Varazi T., Kurashvili M., Adamia G., Pruidze M. General course of xenobiochemistry. Georgian National Academy of Sciences, Tbilisi, 2018, 215 pages (Textbook) (<i>In Georgian</i>)
2017	Khatisashvili G., Lomidze E., Elizbarashvili E. Attractive chemical experiments. Tbilisi, Saqmatsne Publishers, 2017, 46 pages. (Methodological Literature) (<i>In Georgian</i>)
2014	Gordeziani M., Khatisashvili G. General course of ecological chemistry. Tbilisi, Mtsignobari, 2014, 215 pages. (Textbook) (<i>In Georgian</i>)

8.4 Electronic Publications

Years	Title	Address of Source

8.5 Participation in Scientific Symposiums, Conferences for the last ten years

Years	Title	Name of Event
2023	English-Georgian and Georgian-English explanatory online dictionary of chemistry terminology. , 70-72	International Conference Lexicography in the XII Century. Ilia State University, 10-12 November, 2023
2018	Enhancing Phytoextraction Of Copper(II)-Ions By Using Glycolipid Biosurfactants.	EuroSciCon Joint Event on Biotechnology, Stem Cell and Molecular Diagnostics Amsterdam, Netherlands, April 16-17, 2018
2016	New Approaches and Tools For Rehabilitation of Chemically Contaminated Soils.	International Scientific Conference: Modern Researches and Prospects of Their Use in Chemistry, Chemical Engineering and Related Fields, Ureki, Georgia, September, 21-23, 2016,
2015	Creation of ecologically friendly technology for cleaning environment polluted by organochlorine pesticides.	VII Moscow International congress “Biotechnology: State of the Art and Prospects of Development”. Moscow, Russia, March 19-22, 2015
2015	Model testing of new approach for cleaning soils polluted with organochlorine pesticides.	Proceedings of 13th International UFZ-Deltares Conference on sustainable use and management of soil, sediment and water resources, Copenhagen, Denmark, June 9-12, 2015
2015	Creation of phytoremediation technology for cleaning environment polluted with organochlorine pesticides.	International Conference: Applied Ecology: Problems, Innovations. Batumi, May, 2015

9. Organizational Work (Holding of Congresses and Conferences, Editorial Work)

Years	Name

10. Inventions (Author’s Certificate, Patents)

Years	Name
2019	Utility model: Method of cleaning water polluted with dichlorodiphenyltrichloroethane (DDT) by using blue-

	green alga <i>Spirulina</i> . Sakpatenti, AU 2018 14896
2018	Utility model: Method of cleaning water polluted with 2,4,6-trinitrotoluene by using blue-green alga <i>Spirulina</i> . Sakpatenti. AU 2018 14736
2004	Utility model: Method of cleaning of soils contaminated with crude oil and oil products. Sakpatenti. GE U 2004 1128

11. International and Local Scientific grants

Years	Name
2022-2024	Arsenic pollution of waters: a nature-based decontamination technology using an aquatic macrophyte (<i>Lemna</i> spp.) and a blue-green alga (<i>Arthrospira (Spirulina) platensis</i>)
2022-2023	English-Georgian and Georgian-English technological explanatory dictionary in chemistry
2021-2022	Online school "Backpack"
2020-2021	Educational portal "Backpack"
2020-2021	Development of diagnostic and remedial biotechnologies to clean up arsenic-contaminated environment in Georgia
2017-2019	Development of quick response strategy against chemical pollution of soils by using biochips and biosorbents
2016-2018	Development of a novel technology for cleaning chemically polluted waters by using algae <i>Spirulina</i>
2015-2017	Investigation of algae <i>Spirulina</i> 's potential of cleansing chemically polluted waters
2013-2014	Cleaning soils polluted with organochlorine pesticides by plants
2012-2014	Targeting of detoxification potential of microorganisms and plants for cleaning environment polluted by organochlorine pesticides
2011-2013	"Biosorbent Against Chemical Contamination of Soils" – creation of a new remediation technology
2010-2012	New technology of complex phytoremediation of soils on basis of biosurfactants and biodiesel plants
2008-2010	Plants as tools for control and remediation of environment polluted by organochlorine toxicants
2007-2010	Creation of a novel complex phytoremediation technology for rehabilitation of soils and waters polluted with explosives
2006-2009	Novel approach for the improvement of ecological guarantee of oil pipelines
2002-2005	Elaboration of a new strategy of phytoremediation and long-term protection of environment polluted by hydrocarbons
2001-2004	Elaboration of methods of bioremediation of contaminated soils on former military locations and proving grounds in Georgia
1999-2001	Coordination of oxidative enzymes as a key factor in detoxification of organic xenobiotics in plants

12. Scientific-Commercial Activity, author's certificate, Implementation

Years	Name

13. Other Activities

	Name	Years
Supervision of Theses and Masters work	PhD Thesis: Marina Pruidze - "About the role of plant phenoloxidases in the oxidation of xenobiotics"	2023
	PhD Thesis: George Adamia - "Development of biochemical criteria for selection of plants for phytoremediation of soils contaminated with lead and 2,4,6-trinitrotoluene"	2023
	Master's Thesis: Tamar Samadashvili - "Development of a method for remediation of waters polluted with organic compounds"	2007
	Master's Thesis:	2008

	Natia Kordzadze - "Effect of systemic fungicides on the activities of plant oxidative enzymes"	
	Master's Thesis: Sophio Bandzeladze - "Induction of oxidative enzymes in plant leaves by systemic pesticides - Topaz and Bi-58"	2008
	Master's Thesis: Tea Giorgadze - "Induction of plant detoxification enzymes by some systemic and contact fungicides widely used in Georgia"	2010
	Master's Thesis: Rita Kvinikadze - " <i>In vivo</i> transformations in plants of some systemic insecticides widely used in Georgia"	2010
	Master's Thesis: Mariam Kobakhidze - "Phytoremediation method for cleaning soil contaminated with petroleum hydrocarbons"	2011
	Master's Thesis: Nana Khuskivadze - "Development of a new method for cleaning gelatin-damaged art works using microorganisms and surface-active compounds of biological origin"	2017
	Master's Thesis: Ana Gujbidze - "Bacteria-bioremediators for the technology of cleaning up arsenic-contaminated soils in Georgia"	2022
Participation in International, State and Regional Programs		

14. Awards and Prizes, Honorary Title

Date	Name of Awards, Prizes, Honorary Title
1997-1998	Stipend of the President of Georgia (II degree)
2001-2003	Stipend of the President of Georgia (I degree)
2013	The Order of Honor (Georgia)
2020	Georgian National Award
2022	Georgian National Academy of Sciences honorary diploma

15. Family Status

Married, with three children and one grandchild