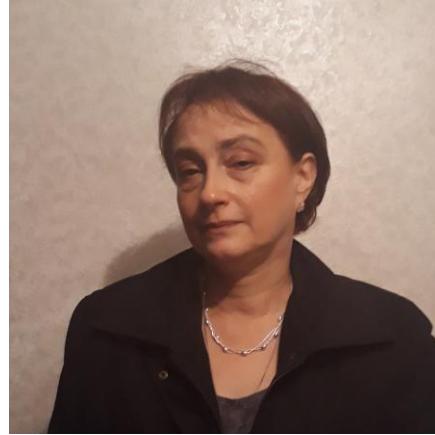


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Education

- 1988 – 1992 Engelhard Institute of Molecular biology, Russian Academy of Sciences, Moscow
Molecular Biology, PhD in molecular biology
- 1983 – 1988 I. Javakhishvili Tbilisi State University, Master's Degree in Biophysics
- 1997 – 1999 Postgraduate Courses of Simultaneous Interpreting and Translation, I.
Chavchavadze Tbilisi State University of Western Languages and Cultures, Certified
Translator & Interpreter

Professional Activity

- 2009 – Present Senior Scientist, TSU Andronikashvili Institute of Physics
- 1992 – 2009 Scientist, TSU Andronikashvili Institute of Physics
- 1988 – 1992 PhD student. Engelhardt Institute of Molecular Biology, Russian Academy of Sciences

Mentoring

- 2003 – 2005 IATP/IREX in Georgia Assistant administrator / trainer

Awards

Award winner for the best article in 1999 published in journals edited by the International Academic Publishing Company "Nauka/Interperiodica", May 22, 2000, Moscow

International cooperation

- Great Dome Associates, USA
- Engelhardt Institute of Molecular Biology, Moscow
- Erevan State University

Patents:

- Jamlet MONASELIDZE, Gia NEMSADZE, Maya GORGOSHIDZE. Differential scanning microcalorimeter device for detecting disease and monitoring therapeutic efficacy. (2019) US Patent US20190003995A1, 34 pages.
<https://patentimages.storage.googleapis.com/c8/db/1f/5d8bc3effe0d58/US20190003995A1.pdf>
- Jamlet MONASELIDZE, Gia NEMSADZE, Maya GORGOSHIDZE. Canadian patent CA3011444A1, international publishing number WO 2017/122174 A1, 67 pages (2017).
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Selected publications

1. Jamlet Monaselidze, Liana Kikalishvili, Manana Ramishvili, Maya Gorgoshidze, Maya Kiladze. Thermostability of Rat Sarcoma M1 Procollagen Solutions, Procollagen Fibers and Whole Tissues, Journal of Thermal Analysis and Calorimetry, 2020,
<https://doi.org/10.1007/s10973-020-09332-4>
2. J. Monaselidze, E. Gelagutashvili, N. Bagdavadze, M. Gorgoshidze and E. Lomidze. SIMULTANEOUS EFFECTS OF Cd(II) AND Pb(II) IONS AND γ -IRRADIATION ON STABILITY OF Spirulina platensis. Eur. Chem. Bull. 2019, 8(2), 38-43
DOI: <http://dx.doi.org/10.17628/ecb.2019.8.38-43>
3. J. Monaselidze, E. Gelagutashvili, N. Bagdavadze, A. Gongadze, M. Gogebashvili, N. Ivanishvili, M. Gorgoshidze. Effect of γ -Irradiation on Stability of Cyanobacteria Spirulina platensis Intact Cells. J. Pharm. Appl. Chem., 5, No. 2, 189-194 (2019) DOI: 10.18576/jpac/050205, <http://www.naturalspublishing.com/Article.asp?ArtID=19791>
4. Jamlet Monaselidze, Teimuraz Lezhava, Maya Gorgoshidze, Tinatin Jokhadze, Shorena Sharia, Maya Kiladze and Eteri Lomidze. DSC as a Tool for Measuring the Thermodynamic Stability of Total Chromatin in Ductal Carcinoma Lymphocytes. 2018, Book: Differential Scanning Calorimetry: Basics and Applications, Publisher: Nova Science Publishers, Editors: Amy Woods and Lila Chavez, Chapter 3, pp. 79-104, ISBN: 978-1-53613-335-6, <https://novapublishers.com/shop/differential-scanning-calorimetry-basics-and-applications>
5. Eugenie Kiziria, Maya Gorgoshidze, Shota Gogichaishvili, Victor Sokhadze, David Khachidze, Maya Kiladze, Eteri Lomidze, Shota Barbakadze, Gennady Tvauri, Jamlet Monaselidze. Influence of K+ Ions on Thermodynamic Stability of DNA G-Quadruplex. Bulletin of the Georgian Academy of Sciences (2017), V.11, No.2, pp. 42-46, http://science.org.ge/newsite/bnas/t11-n2/07_Kiziria.pdf
6. J. Monaselidze, Sh. Gogichaishvili, M. Gorgoshidze, V. Bregadze, M. Kiladze, D. Khachidze, N. Gogelia, E. Lomidze and Sh. Barbakadzedoi. The influence of porphyrins ZnTOEPyP4 and MnTOEPyP4 on the binding mode and conformation of A-RNA. Journal of Biological Physics and Chemistry 16 (2016) 65–69. © 2016 Collegium Basilea & AMSI, <https://doi.org/10.4024/20mo15a.jbpc.16.01>
7. Gia Nemsadze, Teimuraz Lezhava, Maya Gorgoshidze, Maya Kiladze, Nestan Gogelia, Davit Khachidze, Eteri Lomidze, Jamlet Monaselidze, Blood plasma main proteins stability of patients with ductal carcinoma in post-surgery period, Int J Clin Exp Med 2016;9(2):1338-1345, <http://ijcem.com/files/ijcem0018125.pdf>

8. L. Kikalishvili, M. Ramishvili, G. Nemsadze, T. Lezhava, P. Khorava, M. Gorgoshidze, M. Kiladze, J. Monaselidze. Thermal stability of blood plasma proteins of breast cancer patients, DSC study. Thermal stability of blood plasma proteins of breast cancer patients, DSC study. *Journal of Thermal Analysis and Calorimetry*. April 2015, Volume 120, Issue 1, pp 501-505, <https://doi.org/10.1007/s10973-015-4426-2>
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10. Jamlet Monaselidze, Maya Gorgoshidze, David Khachidze, Maya Kiladze, Vasil Bregadze, Eugene Kiziria, Hakob Margaryan, Nune Hakobyan; Zn Ions Change Binding Mode of TOEPyP4 with DNA and Cause DNA Transition from B to C and Zn-Like Conformations, *American Journal of Analytical Chemistry*, 2013, 4, 744-748, <http://dx.doi.org/10.4236/ajac.2013.412090>
11. J. Monaselidze, E. Kiziria, M. Gorgoshidze, D. Khachidze, M. Kiladze, E. Lomidze, H. Margaryan and N. Hakobyan, "CD and DSC Investigation of Individual and Complex Influence of Meso-Tetra(4-Oxiethylpyridil) Porphyrin (TOEPyP4) and Its Zn-Complex on DNA," *American Journal of Analytical Chemistry*, Vol. 3 No. 10, 2012, pp. 698-703. <http://www.scirp.org/journal/PaperInformation.aspx?paperID=23623>
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14. T. Lezhava, J. Monaselidze, T. Jokhadze, M. Gorgoshidze, M. Kiladze, M. Gaiozishvili. Remodeling of heterochromatin induced by heavy metals in extreme old age. *AGE*, 33:433-438, 2011, <https://dx.doi.org/10.1007%2Fs11357-010-9185-1>
15. Monaselidze, J. Khavinson, V. Gorgoshidze, M. Khachidze, D. Lomidze, E. Jokhadze, T. Lezhava, T. Effect of the Peptide Bronchogen (Ala-Asp-Glu-Leu) on DNA Thermostability. *Bulletin of Experimental Biology and Medicine*, Volume 150, Number 3, January 2011 , pp. 375-377(3), <https://doi.org/10.1007/s10517-011-1146-x>
16. J. Monaselidze, G. Nemsadze, L. Kikalishvili, M. Gorgoshidze, D. Khachidze, M. Kiladze, E. Lomidze, M. Ramishvili. Chromatin Thermostability in Breast Carcinoma Tissue Composition. *Bulletin of the Georgian Academy of Sciences*, V.5, No.2, pp. 81-84, 2011, <http://science.org.ge/old/moambe/5-2/92-95%20Monaselidze.pdf>
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23. Kiladze M., Gorgoshidze M., Monaselidze J., Jokhadze T., Lezhava T. Microcalorimetric Study of Human Blood Lymphocytes Culture at Presence of Copper, Cadmium and Prostomax. Georgian Medical News, Tbilisi – New Yourk, No.3, Iss.168, pp. 104-107 (2009), <https://www.ncbi.nlm.nih.gov/pubmed/19359734>
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31. M. Gorgoshidze, E. Minyat, A. Gorin, E. Demchuk, V. Farutin and V. Ivanov. "Slipped Loop Structure is a New Type of Polynucleotide Chain Folding". Molecular Biology, V.26, N6, pp.1263-1273 (1992) (Russian)
32. M. Gorgoshidze, E. Minyat and V. Ivanov. "The Synthetic Oligonucleotides as a Model for Studying of DNA folding". Nucleic Acid Research, Symposium Series, 24 (5), p.239-240 (1991), <https://www.ncbi.nlm.nih.gov/pubmed/1726746>

33. V. Ivanov, M. Gorgoshidze, E. Minyat, O. Voloshin. "A Model of DNA Chain Folding for the Regions with Short Direct Repeats". *J. Biomol. Str. Dynam.*, V.8, a088 (1991)
34. G. Mrevlishvili, G. Lapiashvili, T. Mdzinarishvili, M. Gorgoshidze, M. Kharatishvili, N. Iakobashvili. "Energetics of the B-to-Z Transitions in Water Solutions of Poly(dG-dC). *Biopolymers and Cell*, v. 6, № 4, pp 43-47, (1990), <http://dx.doi.org/10.7124/bc.00027B>

Selected international forums/conferences

1. Jamlet Monaselidze, Hakob Margaryan, Maya Gorgoshidze, David Khachidze, Maya Kiladze, Shota Gogichaishvili. Influence of ZnTOEPyP4 and MnTOEPyP4 on the Binding Mode and conformation of rRNA and GGG(TGGG)3-Quadruplex. Disordered and Ordered Materials Analysis and Characterization - DOM2015. International Symposium and Young Scientist School 24-30 September 2015, Yerevan, Armenia
2. J. Monaselidze, T. Lezhava, D. Khachidze, M. Gorgoshidze, M. Kiladze, E. Lomidze, G. Tvauri, Sh. Barbakadze, L. Kikaleishvili, M. Ramishvili, G. Nemsadze. The Possibilities of DSC in Breast Cancer Study and Diagnostics. International Scientific Conference on Physical Research Methods in Medicine, Tbilisi, Proceedings I, pp. 177-180, 2011
3. Jamlet R. Monaselidze, Maya T. Kiladze, Maya Z. Gorgoshidze, David G. Khachidze The influence of Cu(II)TOEPyP(4) Porphyrin on Thermodynamic Stability of DNA .International Symposium of Solvation and Ionic Effects in biomolecular Recognition: Theory to Experiment, Tsakhkadzor, Armenia, Post-29, Abstracts, p. 34 (2010).
4. J.Monaselidze, M.Kiladze, M.Gorgoshidze, Sh.Barbakadze, I.Mesropyan "Thermodynamic Characteristics of Collagen in Composition of Pathologic Tissues" FEBS course Analysis and Engineering of Biomolecular Systems", Spetses, Greece 11-17 September (2010)
5. J. Monaselidze, E. Esipova, M. Gorgoshidze, I. Mesropyan. Thermodinamic Characteristics of Collagen in pathological Tissues. Poster, "Biophysics and the Challenges of Emerging Threats", International Meeting of Biological Magnetic Resonance, Erice, Italy, 19-30 June (2007)
6. N. Sapochnikova, J. Monaselidze, G. Nemsadze, N. Asatiani, M. Abuladze, T. Kartvelishvili, L. Asanishvili, I. Kalandadze, M. Gorgoshidze, D. Khachidze, M. Kiladze, E. Lomidze, N. Gogelia, Sh. Barbakadze Monitoring of biomarkers by biochemical and thermodynamic approaches. The First SDSU – Georgia STEM WORKSHOP on Nanotechnology and Environmental Sciences, September 5 2015, Tbilisi, Georgia.
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8. Nestan Gogelia, Irakli Lomidze, Tinatin Tvauri, Maya Gorgoshidze, Jamlet Monaselidze, Mikheilo Gadabadze. Differential Scanning Calorimetry as a New Method of Detection of Cancer and Non-Cancer Diseases on the Basis of Human Plasma Monitoring. Disordered and Ordered Materials Analysis and Characterization – DOM2015, International Symposium and Young Scientist School 24-30 September 2015, Yerevan, Armenia
9. J. Monaselidze, M. Gorgoshidze, D. Khachidze, E. Lomidze, Sh. Barbakadze. Thermostability of chromatin and extracellular matrix in breast cancer tissue composition. International Conference, Physical Concepts of Nucleic-Acid Structure and Behavior, funded by VolkswagenStiftung, the state Committee of Science (Armenia) and ICTP network NET68, 27-29 May, 2013, Yerevan, Armenia, p.29.

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Links

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