



## **Manana Gordeziani**

### **Associated Professor**

### **Division of Cellular and Molecular Biology**

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### **Education:**

- **1968-1973 – University Diploma in Biology**, Faculty of Biology (Я № 167330), Iv. Javakhishvili Tbilisi State University (TSU);
- **1973-1979 – PhD student**, Division of Biophysics, Faculty of Biology, TSU.
- **1986 - PhD in Biology** (БЛ № 017952), TSU.

### **Work Experience:**

- **2006-present- Associated Professor**, Division of Cellular and Molecular Biology, Department of Biology, TSU.
- **1995-2006**–Senior scientific worker, Faculty of Biology, Scientific-Research laboratory: “Computational modeling of Biological Processes”, TSU;
- **1992-1995**– Senior scientific worker, Faculty of Biology, Division of Cellular and Molecular Biology, Microbiology-Virology, TSU.
- **1987-1992 – Junior scientific worker**, Faculty of Biology, Scientific-Research Laboratory “Physical-Chemical and Molecular Biology”, TSU.
- **1985-1987 – Junior scientific worker**, Division of Biophysics, Faculty of Biology, TSU.
- **1979-1985**–Laboratory assistant, Problem laboratory: “Molecular Mechanisms of Carcinogenesis” Faculty of Biology, TSU.

### **Teaching Courses:**

- Fundamentals of Molecular Biology (Lecture/Seminar, B.Sc. Biology);
- Genetics and Molecular Biology 2 (Lecture/Seminar; B.Sc. Applied Biosciences and Biotechnology);
- Biotechnology (Lecture/Seminar, B.Sc. Applied Biosciences and Biotechnology);
- Genetics and Molecular Biology II (Lecture/Seminar, medical business);
- Genetics and Molecular Biology (Lecture/Seminar, Stomatology);
- Molecular Biology (Lecture/Seminar, MSc- Biology);
- Molecular Biology (Lecture/Seminar, MSc - Biophysics);
- Basics of Gene Cloning (Lecture, MSc- Biology);
- Regulation of Eukaryotic Gene Expression (Lecture/Seminar, MSc- Biology);
- Gene Engineering and Ethical standard (Lecture/Seminar, MSc- Biology);
- Molecular Mechanisms of Radiobiological effects (Lecture/Seminar, MSc program);

## Textbooks:

1. **Molecular Biology** (part I), Manana Gordeziani, 2009.
2. **Radiation Biology**. Medea Akhalaia, Manana Gordeziani. 2009.

## Author of E. learning Courses:

<http://e-learning.tsu.ge/course/>

<http://moodle.science.tsu.ge/>

## Research Interests:

- Biodestruction/Biodegradation, Regulation of Biodestructors' activity, Prevention of Biodegradation.
- Molecular Mechanisms of Carcinogenesis.

## Selected Scientific Publications:

1. Kotrikadze N, Alibegashvili M, Ramishvili L, **Gordeziani M**, Zibzivadze M, Chigogidze T, Changes in membrane organization of blood erythrocytes from men with different forms of prostate tumors. **International Journal of Clinical and Experimental medicine** 2016; 9(2):4137-4142.
2. Ramishvili L, **Gordeziani M**, Tavdishvili E, Bedineishvili N, Dzizdiguri D, **Kotrikadze N**. The Effect of Extract of Greek Walnut (*Juglans Regia L.*) Septa on Some Functional Characteristics of Erythrocytes. **Georgian Medical News**, 2016, 12 :51-57.
3. Ramishvili L., Zibzivadze M., Alibegashvili M., Chigogidze T., **Gordeziani M.**, Gabunia N., Khazaradze A., **Kotrikadze N**. Some Criteria for the Evaluation of Endogenous Intoxication in Men with Prostate Tumors. **Journal of Biological Physics and Chemistry**, 16 (4): 167–171, 2016 ;
4. Alibegashvili M, Veshapidze N, Ramishvili L, **Gordeziani M**, Chigogidze T, Gabunia N, Khazaradze A, Kotrikadze N. Change of Erythrocytes transport Function in Blood of Men with Prostate Adeno-carcinoma (Before and After Plastic Orchiectomy). **Journal of Cancer Therapy**, 2015, 6: 1249-1253.
5. Nakashidze I, Diasamidze A, Kotrikadze N, Nagervadze M. Ramishvili L, Alibegashvili M. **Gordeziani M**. Erythrocyte Blood Group antigens and Alteration of the Hormonal Status Among the Reproductive Age Women with Breast Tumors. **European Medical Health and pharmaceutical Journal**, 2014, 7:1-10.
6. Nakashidze I, Diasamidze A, Kotrikadze N, Nagervadze M. Ramishvili L, Alibegashvili M. **Gordeziani M**, Khazaradze A. Alteration of Sex and Non-Sex Hormones and Distribution Features of Blood ABO System Groups among the Women with Uterine Body Tumors. **Journal of Cancer Therapy** 2014, v.5 411-419.
7. Kotrikadze N, Bochorishvili I, Alibegashvili M, Ramishvili L, **Gordeziani M**, Kuchukashvili Z, Chigogidze T, Melikishvili Z, Khazaradze A. Laser induced Fluorescence Studies of Blood Plasma and tumor Tissue of Men with Prostate Tumors. **Journal of Cancer Therapy** 2014, v. 5. 1021-1030
8. Kotrikadze N, Alibegashvili M, Ramishvili L, **Gordeziani M**, Veshapidze N, Chigogidze T, Gabunia N. Prognostic value of Structural and Ultra-structural changes of Erythrocytes. **Urology** 2014, vol.84, supl 4 (1), S291.
9. Kotrikadze N, Alibegashvili M, Ramishvili L, **Gordeziani M**, Zibzivadze M, Chigogidze T, Ceruloplasmin as an Antioxidant preparation in case of Prostate Tumors . **Urology** 2014, vol.84, supl 4 (1). S291.
10. Kotrikadze N, Alibegashvili M, Ramishvili L, **Gordeziani M**, Veshapidze N, Chigogidze T, Managadze L. Mitochondrial Defects and their Role in Development of Prostate Cancer . **European Medical, Health and Pharmaceutical Journal** v.3. pp.17-20. 2012.
11. Kotrikadze N, Monaselidze J, Tevdoradze T, Zibzivadze M, Alibegashvili M, Ramishvili L, **Gordeziani M**, et al. The Study of blood serum proteins in patients with mammary gland tumors// **Journal of Biological Physics and Chemistry**, 2012, 12: 19-22.
12. **Manana Gordeziani**, Marina Tabatadze, Iliia Atanelishvili. "Membrane Phospholipid Ratio and Cell Stability". Bulletin of The Georgian National Academy of Science. **vol. 3, no. 3, 2009**. Pp.158-162.

13. M.Akhalaia,\* **M.Gordeziani\*\***, “Radon and impact of its daughter products on humans”. “Modern Medicine“ GEORGIAN MEDICAL SCIENTIFIC-PRACTICAL JOURNAL. [www.modernmed.ge](http://www.modernmed.ge). Founder & publisher GPC. ModernMedicineR ISSN 1512-4967. π10, May-June, **2009**. Pp.46-52.
14. **Manana Gordeziani**, Marina Tabatadze, Iia Atanelishvili. “The effect of detergents od active metabolite production by microorganisms”. Bulletin of The Georgian National Academy of Science. vol.2, no.4, **2008**. pp.109-112.
15. **Manana Gordeziani**, Marina Tabatadze\* and Iia Atanelishvili. “Evaluation of UV radiation and detergents for use in regulation of microörganismal active metabolite production”. Journal of Biological Physics and Chemistry. vol. 8. (**2008**), #4. Pp.115–119.
16. **M. Gordeziani**, I. Atanelishvili, M. Tabatadze. ”Beneficial effect of combined administration of different detergents and UV radiation on the stability of  $11^{5(1)}$  y *Nocardioopsis dassonvillei*”. Journal of Biological physics and chemistry (JBPC). v.7, #2 (**2007**). Pp 71-76.
17. **M. Gordeziani**,\* I. Atanelishvili, M. Tabatadze, E. Gamtsemlidze and D. Mikeladze “Biocontrol of acid phosphatase secretion in *115(1)* y *Nocardioopsis dassonvillei* cells exposed to surface active substances”. *Journal of Biological Physics and Chemistry*. v.7, #4 (**2007**). Pp 135–139.
18. Atanelishvili I., Bochorishvili N. Jimshitashvili N., Tabatadze M., Mardaleishvili M., **Gordeziani M.** "SDS Incubation Time Dependent Changes of Several Functional Characteristics of  $11^{5(1)}$  y *Nocardioopsis dassonvillei*" cells". Proceedings of Georgian Academy of Sciences. Biological series B.**2005**. No.2. Vol.3. pp.52-56.
19. Atanelishvili I., Jimshitashvili N., Ratiani K.,Tabatadze M., **Gordeziani M.** “Stability of  $11^{5(1)}$  y *Nocardioopsis dassonvillei* cells under the influence of different agents.” Proceedings of Georgian Academy of Sciences. Biological series B.**2005**. # 4, vol.3, pp.22-25.
20. Nana Bochorishvili, Iia Atanelishvili, Marina Tabatadze, **Manana Gordeziani**. 'Effect of UV Radiation on the Acid Phosphatase Activity and Peroxidation Intensity in Culture Medium of  $11^{5(1)}$  y *Nocardioopsis dassonvillei*'. Международная научная конференция: "Физиолого-биохимические и экологические особенности микроорганизмов". стр.38-42. 16-18 Октября(dekemberi), **2005**, Баку
21. **M.Gordeziani**, M.Tabatadze, I.Atanelishvili, N.Bochorishvili "Approaches for regulation of microorganisms destructive activity" 7th International Seminar “*Scientific Advances in Chemistry: Heterocycles, Catalysis and Polymers as Driving Forces*”. Ekaterinburg, November 2<sup>nd</sup> to 4<sup>th</sup>, 2004. pp.96.
22. **M.Gordeziani**, M.Tabatadze, I.Atanelishvili, N.Bochorishvili "Effect of UV irradiation on several functional characteristics of  $11^{5(1)}$  y *Nocardioopsis dassonvillei*"\_Journal of Biological physics and chemistry (JBPC)., Published jointly by - Collegium Basilea (Institute of advanced study) Basel. Association of Modern Scientific Investigation. Tbilisi. vol.4, #4, **12/2004**, pp.193-196.
23. **M. Gordeziani**, M. Tabatadze, N. Bochorishvili and L. Zuroshvili, Effect of ionic and nonionic detergents on the intensity of peroxidation in  $11^{s(1)}$ y *Nocardioopsis dassonvillei* culture medium. J. Biological physics and chemistry (JBPC), **2002**, vol. 2, N 1/2, 59-61. Published by - Basel Collegium Basilea (Institute of advanced study). Tbilisi association of modern scientific Investigation (AMSI).

### Patents:

1. Certificate of authorship № 1173315 G 01 №33\48 **1985**.
2. Certificate of authorship №1168862, **1985**. №27, 23.07.
3. Certificate of authorship №1332228. **1987**. №31. 23.08.