



## Nanuli Kotrikadze

**Professor, Doctor of Biological Sciences.**

**Head of the Division of Cellular and Molecular Biology**

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### Education

- University Diploma in Organic Chemistry, Faculty of Chemistry, Polytechnic University of Georgia, (1962-1969).
- PhD program in Biophysics, Division of Biophysics, Faculty of Biology, Iv. Javakhishvili Tbilisi State University (TSU) (1970-1974).
- **PhD in Biophysics**, Iv. Javakhishvili Tbilisi State University ( =21156), 1974.
- **Doctor of Biological Sciences (Biophysics)**, Laboratory of Biophysics and photobiology, Institute of Photobiology, Academy of Science, Minsk, Belarus ( 000152) , 1988.

### Work Experience:

- **1969- 1990** – Laboratory assistant, senior laboratory assistant, scientific worker, senior scientific worker; Division of Biophysics, Faculty of Biology, TSU.
- **1990-1999** - Professor at the Division of Biophysics, Faculty of Biology, TSU.
- **1993- 1999** - Scientific Director of Research Laboratory: “ Molecular Mechanisms of Carcinogenesis” , Division of Biophysics, Faculty of Biology, TSU.
- **1999-2006** - **Head of the Division of Cellular and Molecular Biology, Faculty of Biology, TSU.**
- **2006- 2009** - **Associated Professor**, Department of Biology, Faculty of Exact and Natural Sciences, TSU
- **2009–present** - **Professor**, Head of the Division of Cellular and Molecular Biology, Department of Biology, Faculty of Exact and Natural Sciences, TSU.

### Teaching courses:

- **Cellular Biology** (lecture, **Mandatory** course, Bachelors program -“Biology”);
- **Biological Basis of Diseases** (lecture, **Mandatory** course, Bachelors program – “Applied Biosciences and Biotechnology” )
- **General Biological Principles of Carcinogenesis** (Lecture, **Mandatory** course, MSc Program);
- **Cellular and Molecular Biology of Cancer** (Lecture, **Mandatory** course, MSc Program);
- **Hormone-dependent Tumors** (Lecture, **Mandatory** course, MSc Program);
- **Applied Toxicology** (Lecture/seminar, **Mandatory** course - MSc Program);
- **Cancer Biology** (Lecture/seminar, **Selective course**, Bachelors program);
- **Environmental Health** (Lecture/seminar, **Selective course**, Bachelors program);

## Research Interests:

- Cellular Biology;
- Molecular Biology;
- Oncology (Hormone-dependent tumors);
- Medical Biophysics;

## Scientific publications:

- “Fundamentals of Cellular Biology” – Textbook for students of Biology and Medicine Specialties, Tbilisi, 2009.
- “Medical-Biological Aspects of Prostate tumors”, Monograph, Tbilisi, 2012.

## Total number of scientific publications - 167.

### *Publications in the last 10 years (2007-2017):*

1. **Kotrikadze N., M. Alibegashvili, I. Bochorishvili, L. Managadze et al.** Pathomorphological changes of erythrocytes during prostate benign hyperplasia. **Urology**, v. 70, (USA) pp. 293- 294, 2007.
2. **Kotrikadze N., K.Artsivadze, I.Bochiroshvili, L. Ramishvili, L. Managadze et al .** Using of fluorescent method in the diagnosis of prostate tumors”. **Urology**, v. 70, (USA) pp. 294-295, 2007.
3. **Kotrikadze N., N. Veshapidze, L. Mahnagadze, T. Chigogidze et al.,**Dynamics of structural and electrical characteristics changes in erythrocytes of men with prostate adenocarcinoma (T3b-T4NxM1) before and after castration. **Georgian Medical News.**; N 12, 2007, [PubMed-indexed for MEDLINE]
4. **Kotrikadze N., M. ZibZibadze M. Alibegashvili, K. Artsivadze et al** Activity and content of antioxidant enzymes in prostate tumors. **J.Experimental Oncology**, v.30 (3) : 244-247,2008.
5. **Kotrikadze N, Chigogidze T, Alibegashvili M, Zibzibadze M, et al.** Diferential Scanning Microcalorimetric investigation of thermodynamic parameters of the blood plasma in the men with prostate tumors. **Urology**, v.74, suppl. 4A, 2009.
6. **Kotrikadze N, Chigogidze T, Alibegashvili M, et al.** Mitochondrial defects and their role in Prostate Tumours. **Urology** , v.74, suppl. 4A, 2009.
7. **Kotrikadze N, Zibzibadze M, Bochorishvili I, et al.** Investigastion of pro- and Antioxidative Systems” Changes In Blood of Patients with Prostate Tumours.**Georgian Medical News.** [PubMed-indexed for MEDLINE]. N 41 (166) :26-29, 2009.
8. **Kotrikadze N, Chigogidze T, Alibegashvili M,Ramishvili L et al.** The study of blood plasma and tumor tissue by the laser induced Fluorescence in patients with prostate tumors. **Urology**, v.74, suppl. 4A, 2009.
9. **Kotrikadze N, Chigogidze T, Ramishvili L, Alibegashvili M, et al.** Erythrocyte Membrane Permeability in the Men with Metastatic Adenocarcinoma of the Prostate. **Georgian Medical News.** # N 1 (166): [PubMed-indexed for MEDLINE] pp. 9-12, 2009;
10. Chigogidze T, Veshapidze N, Alibegashvili M, **Kotrikadze N**, et al .Plastic orchectomy and Morphological Changes of Erythrocytes. **Urology**, v.74, suppl. 4A S198, 2009.
11. **Kotrikadze N, Zibzibadze M, Bochorishvili I et al.** Oxidative Stress and The Study of Protective Function of Organism in Patients with Prostate Tumors. **J.Urology**, v.78, suppl., 3A; p.331, 2011.
12. **Kotrikadze N , Alibegashvili M, Khutsishvili E, Chelidze M, Artsivadze et al et al.** Investigation of metabolic paramagnetic centers in the blood of patients with prostate adenocarcinoma prior to and after the plastic orchectomy. **Biophysics** , V. 56, N. 4, p.717-721, 2011.
13. **Kotrikadze N, Zibzibadze M , Ramishvili L, Alibegashvili M , Chigogidze T, Managadze L.** Protective function of ceruloplasmin and its action on erythrocytes in men with prostate tumors. **European Medical, Health and Pharmaceutical Journal** v.1, pp.1-3. 2011.
14. **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.

15. **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.
16. Nakashidze I, Diasamidze A, **Kotrikadze N**, Nagervadze M. Distribution of erythrocyte phenotypic groups in women with benign tumors of the uterus in Adjara oncology centre. **Georgian Medical News** #6 (207) 2012: 15-18.
17. Nakashidze I, Diasamidze A, **Kotrikadze N**, Nagervadze M, Ramishvili L. Changes in Sex and Non-sex Hormones and Distribution of Erythrocyte antigens in reproductive age women with tumors of body of uterus in Adjara. **Georgian Medical News**. #4, 2013, pp. 15-20.
18. 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.
19. 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.
20. **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
21. **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, suppl 4 (1), S291.
22. **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, suppl 4 (1). S291.
23. 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 Adenocarcinoma (Before and After Plastic Orchiectomy). **Journal of Cancer Therapy**, 2015, 6: 1249-1253.
24. **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.
25. 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.
26. 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 ;