

# Zurab Kuchukashvili



## Personal Information

- Place of Birth – Tbilisi
- Date of Birth - 25.09.77
- Nationality - Georgian
- Address (home) - 18, Vazha-Pshavela Ave., 0160, Tbilisi, Georgia
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## Working Experience

2010 - till present - Ivane Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences, Assistant-Professor;

2007-2010 - Chief of the Laboratory, Faculty of Exact and Natural Sciences, Laboratory of Biological Physics and Chemistry, Ivane Javakhishvili Tbilisi State University;

2010-2013 \_ Team Member of EC TEMPUS Project “Developing MSc programs in Applied Biosciences” at Tbilisi State University, Food Biotech. Subprogram Leader, Lab. Developing Leader;

2010 – 2011 \_ National consultant, agronomist with expertise in farmer technology needs assessment, FAO project: TCP/RER/3207 D “Capacity building in agricultural biotechnologies and biosafety” for Armenia, Georgia and Republic of Moldova;

2006-2007 \_ Main specialist of public Health department, Ministry of Labor, Health and Social Affairs;

2001-2007 - Scientific worker of Ivane Javakhishvili Tbilisi State University, faculty of biology, department of biophysics

## Education

2006- PhD, the Academic doctor of sciences in Biology;

1998- Ivane Javakhishvili Tbilisi State University, Faculty of Biology and Medicine. Academic degree of Master in Biology;

1994-1998 Ivane Javakhishvili Tbilisi State University, Faculty of Biology and Medicine. Academic degree of Bachelor in Biology

## Current field (subfield)

Food Biotechnology  
Food Safety  
Food Antioxidants  
Stress Biology & Biophysics.

## Certifications or professional registrations

2007 - Certificated as food safety manager (ISO 22000:2005);  
2007 - Certificated as quality manager (ISO 9001:2000);  
2007 - Certificated as risk management (AS/NZS 4360:2004).  
2005 – Training Course - Bacteriology

**The most recent professional development activities (trainings/workshops/seminars/conferences attended, technical projects, etc.)**

- 2016. Strengthening Food Testing and Metrology in the South Caucasus Countries - Regional Training on “PCR and GMO in food testing” Technical cooperation project - PTB number 95097, BMZ-Nr. 2014.2204.7 Berlin, Germany
- 2015. EU/UNICRI Project C4, “Biosafety and Biosecurity Risk Management for Georgia”. Tbilisi, Georgia
- 2014. 9th FENS Forum of Neuroscience 2014, Milan, Italy
- 2014. Eastern European Regional Course on Impact Assessment of LMOs under the Cartagena Protocol “Advancing LMO assessment: Principles, Practice and Progress”. Chisinau, Moldova
- 2014. Expert Mission on Biosafety focusing on genetically modified organisms (GMO). Tbilisi, Georgia
- 2013. The Federation of European Biochemical Societies (FEBS) Workshop on Molecular Life Science Education Tbilisi, Georgia
- 2013, Cell Symposia Mitochondria: from Signaling to Disease, Lisbon, Portugal
- 2012, 22nd IUBMB & 37th FEBS Congress, Seville, Spain.
- 2012. “Modernization of Laboratory Equipment in Natural Sciences Study” Tbilisi, Georgia
- 2011, 8th IBRO World Congress of Neuroscience, Florence – Italy.

**Grants**

- 2016. Shota Rustaveli National Science Foundation Grant; №SS16\_B\_013 “Summer School in Applied Biosciences and Biotechnology”
- 2015. Shota Rustaveli National Science Foundation Grant; SC/8/7-200/14, “Testing of the seeds of agricultural plants spread in Georgia for the presence of genetically modified organisms”;
- 2013 -2017 ctc (Center for Training and Consultancy) – “Community Development Initiative (CDI5), BP funded project”. Invited expert in food safety issues;
- 2014-2017. Shota Rustaveli National Science Foundation Grant; FR/226/7-220/13, “Impact of Psycho Emotional Stress on Brain Energy Metabolism among Naturally Aggressive Animals”;
- 2012-2013. Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), European Commission (no. 2009-1-DE2-LEO04-01702-1), “EU CHEMLAB - European apprenticeship training for chemical laboratory assistants. “EU CHEMLAB project implementation in Georgia” - CHEMLAB-GEO Project”;
- 2012-2013. Shota Rustaveli National Science Foundation Grant/PG # 12/33, The impact of long-lasting psycho-emotional stress on the aggressiveness of individuals;
- 2010-2013. TEMPUS Project: 159340-TEMPUS-1-2009-ES-JPCR. Developing New MSc. Applied Biosciences and Biotechnology Curricula at Tbilisi State University

**Honors and awards**

- 2013 – EU Diploma for valuable contribution to the design and introduction of the Master Course in Applied Biosciences at TSU in the framework of the EU TEMPUS funded Project (MAPB);
- 2008-2009 – I. BERITASHVILI' SCIENTIFIC SCHOLARSHIP;
- 2000-2002 – GEORGIAN PRESIDENTS` SCIENTIFIC SCHOLARSHIP;
- 1999-2000 – GEORGE SHULTS` SCIENTIFIC SCHOLARSHIP;
- 1995-1999 – GEORGE SOROS` SCIENTIFIC SCHOLARSHIP

**The most important publications from the past five years**

- “Circadian rhythm disorders and dynamic changes of energy metabolism in rat heart muscle cells”. N. Dachanidze, **Z. Kuchukashvili**, et al.. *Biological Rhythm Research* Volume 46, Issue 1, January 2015, pages 39-51;
- “Changes in activity of hippocampus creatine kinase under circadian rhythm disorders”. G. Burjanadze, **Z. Kuchukashvili**, et al.. *Biological Rhythm Research* Volume 45, Issue 5, September 2014, pages 685-697;
- “Laser Induced Fluorescence Studies of Blood Plasma and Tumor Tissue of Men with Prostate Tumors”. L.Ramishvili, I. Bochorishvili, N. Gabunia, **Z. Kuchukashvili**, et al. *Journal of Cancer Therapy*, 2014, 5, 1021-1030
- “Activity of white rat antioxidant system under chronic stress”. **Kuchukashvili Z**, Chipashvili M, et al.. *Georgian Medical News* 2014 (226):54-59;
- “Lipid Peroxidation and Antioxidant System Activity Changes of Rat Blood and Cardiac Muscle Cells Under Chronic Stress”. N. Dachanidze , G. Burjanadze , **Z. Kuchukashvili**, et al.. *International Journal of Biochemistry and Biophysics*, 1, pp16 – 21, 2013;
- “Functioning of the Antioxidant System under Psycho-Emotional Stress”. N. Dachanidze , G. Burjanadze , **Z. Kuchukashvili**, et al. *Journal of Stress Physiology & Biochemistry*, Vol. 9 No. 4 2013, pp. 122-131, 2013;
- “Changes in activity of creatine kinase and functional state of mitochondria under stress conditions”. G. Burjanadze, **Z. Kuchukashvili**, et al. *Proceedings of the Georgian National Academy of Sciences, Biomedical series vol.39, pp 40-41, 2013;*
- „Investigation of the Mg-HCO<sub>3</sub>-ATPase activity of Thyroid Tissue Cells under Various Pathologies“. N.Koshoridze, K.Menabde, **Z.Kuchukashvili**. *Scand J Clin Lab Invest. Sep;72(5):363-8. 2012;*
- „Long-lasting stress, quantitative changes in nitric oxide concentration and functional state of brain mitochondria“. **Z.Kuchukashvili**, et al. *Acta Neurobiol Exp.*, 72, 1, pp. 40–50. 2012;
- „Functional state of rat cardiomyocytes and blood antioxidant system under psycho-emotional stress. “ **Z.Kuchukashvili**, et al. *Acta Biochim Biophys Sin.* 43, 6, 480-486. 2011;
- “Functional Status of mitochondrial pore in the brain of laboratory rats subjected to prolonged emotional stress”. Burjanadze G., Menabde K., Gavashelidze M., **Kuchukashvili Z.**, Koshoridze N. *J. Stress Physiology and Biochemistry.* 7, 4, 88-96. 2011;
- “Brain oxidation stress caused by isolation and violation of diurnal cycle”. Menabde K, **Kuchukashvili Z**, et al. *Bull. of the Georg. Nat. Acad. of Sci.* 5, 2, 87-91. 2011;
- “Tissue specificity of lipid peroxidation under emotional stress in rats”. Menabde K, Burjanadze G, **Kuchukashvili Z**, Chachua M, Koshoridze N. *Ukr. Biochem J.* 83, 3, 82-8. 2011;
- “Characterization of the antioxidant system of rat blood and cardiomyocytes under stress conditions”. Menabde K., **Kuchukashvili Z.**, et al. *J. Biological Physics and Chemistry.* 11,2, 54–59. 2011;
- “Quantitative Alterations in the Products of Lipid Peroxidation under Stress”. Koshoridze N, Menabde K, **Kuchukashvili Z**, Chachua M, Chipashvili M *J.of Stress Physiol. and Bioch.* 6, 2, 4-9. 2010;
- “Peculiarities of Energy Metabolism of Cardiac Hystiocytes in White Rats under Chronic Stress Conditions”. Manana Chipashvili, Ketevan Menabde, **Zurab Kuchukashvili**, Nana Koshoridze. *Bull. of the Georg. Nat. Acad. of Sci.*, Vol.4 #1, pp 142-145. 2010;

**Current membership in professional organizations**

- The Federation of European Biochemical Societies (FEBS)
- Federation of European Neuroscience Societies (FENS)
- Georgian Science Research Center of Agricultural, Scientific Advisory Board of Risk Assessment