



Nino Archvadze, PhD
Assistant Professor

Applied Biosciences and Biotechnology

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Education

- Honor Diploma in Biology (Human and Animal Physiology), Ivane Javakhishvili Tbilisi State University,
- Post-graduate study, Department of Human and Animal Physiology, Faculty of Biology, Ivane Javakhishvili Tbilisi State University
- PhD in Human and Animal Physiology, Ivane Javakhishvili Tbilisi State University,

Teaching Courses

- Introduction to Biology (BSc)
- Biotechnology (BSc)
- Biological Basis of Diseases (BSc)
- Scientific Data Analysis (BSc)
- Experimental Design and Analysis (BSc)
- Industrial Placement (Coordinator)
- Research Design and Methodology (MSc)
- Advances in Applied Biosciences (MSc)
- IPR, Legislative, Commercial and Ethical Principles of Biosciences (MSc)

Projects/Grants

- 2016** - Summer School in Applied Biosciences and Biotechnology - tutor, lecturer. Granted by Shota Rustaveli National Science Foundation.
- 2010 – 2013** - EC TEMPUS Project “Developing MSc programmes in Applied Biosciences (MAPB) at Tbilisi State University”, Team member, Marketing Coordinator, Study Process Coordinator
- 2007 - 2010** - EC TEMPUS Project “Developing New Applied Biosciences and Biotechnology Curricula at Tbilisi State University”, Team member, IT and Teaching Recourses Coordinator; Module Leader
- 2014, Jan-Mar** - EU TEMPUS Project 530360-TEMPUS-1-2012-1-GE-TEMPUS-JPCR-, Development and Introduction of Multilingual Teacher Education Programs at Universities of Georgia and Ukraine (DIMTEGU);
- 2012** - EU TEMPUS Project „SALiS-Student Active Learning in Science; Translation of PASCO Scientific Guideline „Biology through Inquiry (Teacher Guide - Biology PS-2870A)

Trainings/Seminars

- 2015** - PTB Training within the Framework of German Cooperation - “Emerging Food Contaminants”, PTB Technical Cooperation Project “Strengthening Food Testing and Metrology in the South Caucasus Counties” (Certificate)
- 2013** - EU TEMPUS Regional Seminar on Human Resource Management in Higher Education in Eastern Europe” Chisinau, Moldova)
- 2012** - Trainings Cycle on Integrated Water Resources Management, UNDP-GEF EU Kura Aras Project, IWRM Academy (Certificate)
- 2012** - EU TEMPUS-funded MAPB Staff Development and Training at the University of Alicante, Spain - Program Management and QA, Students Mobility

- 2011** - EU TEMPUS-funded MAPB Staff Development and Training at the University of the West of England, Bristol, UK – Program Management, QA and Accreditation, Distance Learning.
- 2008** - EU TEMPUS-funded MAPB Staff Development and Training at the University of the West of England, Bristol, UK – Curricula Development, Modular System in HEIs, New Teaching Methodology, Program Management and QA

Scientific Conferences/Workshops

- 2015** - Rekhviashvili, A.; Godziashvili, M.; **Archvadze, N.** Association between blood creatinine concentration and subclinical atherosclerosis in Hypertensive and Normotensive Patients. 25th European Meeting of Hypertension and Cardiovascular Protection. Milan (Poster).
- 2014** - S. Tsagareli, **N. Archvadze**, M. Gvajaia. The influence of Hippocampal lesion on the formation of fixated set in rats. XII National Scientific Conference of Georgian I. Beritashvili Society of Physiology (GBSPH) and GBSPH Branch - "Actual Problems of Physiology and Biomedicine". Co-Presenter;
- 2013** - N. Inasaridze, E. Cherkezia, **N. Archvadze**. Integrating the Environmental Issues into the Curricula of Higher Educational Institutions in Georgia, Case Study. 5th IWA IWP Conference. Kiev. Ukraine
- 2011**- O. Tavidshvili, S. Tsagareli, **N. Archvadze**. An Assessment of the Rat's Behavior Through Learning Process by the Cluster Analysis. The International Scientific Conference Devoted to the 80th Anniversary of Academician Iv. Prangishvili "Information and Computer Technologies, Modelling, Control. Tbilisi
- 2010** - O. Tavidshvili, **N. Archvadze**, S. Tsagareli, A. Stamateli, M. Gvajaia. The Study of Rats' Active Avoidance Behavior by the Cluster Analysis. Life System Modeling and Intelligent Computing. International Conference on Life System Modeling and Simulation, LSMS. Wuxi, China (Poster).
- 2010** - S. Tsagareli, O. Tavidshvili, **N. Archvadze**, A. Stamateli, M. Gvajaia. Cluster Analysis for Comparative study of Active Avoidance Behavior in Hippocampus- and Neocortex-Damaged Rats. 9th "Gagra Talks" - International Conference on Fundamental Questions of Neuroscience. Tbilisi

Publications

- **Member of Translation Team** Working on - *William J. Thieman, Michael A. Palladino. Introduction to Biotechnology. 2th edition, Benjamin Cummings. 2008* – Georgian Edition - 2015. TSU.
- **N. Archvadze**, E. Cherkezia. Research Design and Methodology. (Geo). "Creative Boutique" Tbilisi. 2013
- Co-author of Subject Benchmark Statements for the Bachelor's Degree in Biosciences, Georgia, TEMPUS, DABB, 2011;

Selected publications

1. S. N.Tsagareli , **N. G. Archvadze**, O. Tavidshvili, M.Gvajaia. The Prognosis of Delayed Reactions in Rats Using Markov Chains Method. *Journal of Behavioral and Brain Science*, **6**, 19-27, 2016.
2. Rekhviashvili, A.; Godziashvili, M.; **Archvadze, N.** Association between blood creatinine concentration and subclinical atherosclerosis in Hypertensive and Normotensive Patients. 25th European Meeting of Hypertension and Cardiovascular Protection. Milan. 2015. Published in *Journal of Hypertension*. Vol.33. e-Supplement 1 - ESH 2015 Abstract Book. 2015.
3. T. Kituashvili, M. Gedevanishvili, **N. Archvadze, N. Gogitidze**. Median Effective Time (ET50) in the Pilot Clinical Evaluation of Topical Drug Efficacy. Proceedings of Georgian Academy of Science. Biomedical Series. vol. 38. #3-4, 2012, Tbilisi.
4. Sul Khan N.Tsagareli; **Nino G. Archvadze**; Otar Tavidshvili. Quantitative Analysis of Formation of Active Avoidance Behavior in the Hippocampus Coagulated and Intact White Albino Rats. *Journal of Behavioral and Brain Science*. 2012, 2, pp.10-17
5. S.N. Tsagareli, O.N. Tavidshvili, **N.G. Archvadze**. Assessment of Active Avoidance Behavior by Cluster Analysis. International Scientific Conference "Actual Problems in Neurobiology" Dedicated to 100 anniversary of Prof. Irine Mepisashvili. Abstracts. Tbilisi. Georgia. 2011
6. O. Tavidshvili, **N. Archvadze**, S. Tsagareli, A. Stamateli, M. Gvajaia. The Study of Rats' Active Avoidance Behavior by the Cluster Analysis. Life System Modeling and Intelligent Computing. International Conference on Life System Modeling and Simulation, LSMS. Wuxi, China, September 17-20, 2010. Proceedings. Parts III. Springer. pp.180-188
7. Цагарели С.Н., Стаматели А.Ю., **Арчвадзе Н.Г.**, Гваджаиа М.Т. Влияние разрушения дорсального гиппокампа на формирование фиксированной установки у белых крыс. *Georgian Medical News*. 2(179), Tbilisi-New York. 2010. pp. 40-45
8. O. Tavidshvili, S. Tsagareli, **N. Archvadze**. An Assessment of the Rat's Behavior Through Learning Process by the Cluster Analysis. The International Scientific Conference Devoted to the 80th Anniversary of Academician Iv. Prangishvili "Information and Computer Technologies, Modelling, Control". Book of Abstracts. Tbilisi, 1-4 November, 2010.

9. S.Tsagareli, **N.Archvadze**, O. Tavdishvili. Assessment of Active Avoidance Behavior by Cluster Analysis. Proceedings of the Georgian Academy of Sciences. Biological Series A. Supplementum 35. Tbilisi, 2009. p.36
10. Rekhviashvili A., Tsinamdzgvrishvili B., Tsiskaridze A., Chkhetia M., **Archvadze N.**, Labakhua G. Determination of vascular wall shear stress by high-resolution ultrasound as a method of assessment of endothelium-dependent vasodilatation in patients with arterial hypertension. The 2008 World Congress of Cardiology. Buenos-Aires, Argentina 2008. Circulation 2008;117 (19):3.
11. Rekhviashvili A., Tsinamdzgvrishvili B., Tsiskaridze A., Chkhetia M., **Archvadze N.**, Labakhua G., Vashakidze M. Determination of vascular wall shear rate by high-resolution ultrasound for assessment of endothelium-dependent vasodilatation in patients with arterial hypertension. Fifth Mediterranean Meeting on Hypertension and Atherosclerosis. Turkey, Izmir 2008. Abstract Book.
12. Rekhviashvili A., Tsinamdzgvrishvili B., Tsiskaridze A., Chkhetia M., **Archvadze N.**, Vashakidze M. Circadian blood pressure in hypertensive patients with normal and impaired endothelial function. Fifth Mediterranean Meeting on Hypertension and Atherosclerosis. Turkey, Izmir 2008. Abstract Book.
13. Rekhviashvili A., Tsinamdzgvrishvili B., Tsiskaridze A., Chkhetia M., **Archvadze N.**, Labakhua G. Determination of vascular wall shear stress by high-resolution ultrasound as a method of assessment of endothelium-dependent vasodilatation in patients with arterial hypertension. (Published on the web-page of the 6th International Congress on the Internet as an article).
14. Rekhviashvili A., Tsinamdzgvrishvili B., Tsiskaridze A., Chkhetia M., **Archvadze N.**, Labakhua G. The relationship of 24-hour blood pressure rhythm with endothelial function and blood rheological Changes. 27es Journées d'Hypertension Artérielle - 1st International Meeting of the French Society of Hypertension. Journal D'Expression de la Societe Francaise de Cardiologie 2007; Tome 100:28
15. Rekhviashvili A., Tsinamdzgvrishvili B., Tsiskaridze A., Chkhetia M., **Archvadze N.** Assessment of vascular wall shear stress in patients with arterial hypertension. 6th Asian – Pacific Congress of Hypertension; 9th International Symposium on Hypertension and Related Diseases, Beijing, China, 2007. Abstract Book, pg. 2-343.
16. A. Stamateli, M. Gvajaia, N. **Archvadze**, S. Tsagareli. The study of the reasoning behaviour in different behavioral tasks. Bulletin of TISMI. # 11.2007. pp.21-30

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 “*Master Program in Applied Biosciences at Georgian and Armenian Universities*” (MAPB)

Activities

2015 - TSU Students and Pupils IX Scientific Symposium, Member of Organization Committee.

2011 - International Scientific Conference - “Actual Problems in Neurobiology”, Member of Organization Committee. Georgia, Tbilisi

2010 - The State of the Environment Report - Georgia, Invited Expert

Since 2009 - Staff member of the “School of Young Biologists”, Biology Department, TSU

2008 - International Scientific Conference – “Actual Problems of Biology and Medicine”, Member of Organization Committee

2000-2005 - Member of Scientific Council, Faculty of Biology and Medicine, Tbilisi State University

1998-2005 - Secretary of Methodological Council, Faculty of Biology and Medicine, TSU

Additional Information

- **Languages:** Georgian (native), English, Russian
- **Computer skills:** Experienced user of Windows; Internet; Microsoft Office Programs; Adobe Reader, Adobe InDesign; Photoshop; SPSS; STATISTICA; Corel Draw, etc.
- Married, 2 daughter