

CURRICULUM VITAE

Mzia Zhvania

Current Position and Contact Information:

Full Professor, Faculty of Life Science and Engineering. Ilia State University. 3/5 K/ Cholokashvili Avenue, 0162 Tbilisi, Georgia

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Professional Experience”

2013 February – until now: Full Professor, Faculty of Life Science and Engineering. Ilia State University (courses: Functional Neuroanatomy. Basic Principles of NanoBiology and NanoMedicine. Nanotechnology in Biology and Medicine. Cytology. The Pathology of Neuron: Structure and Ultrastructure).

2013 February – Head., Laboratory of Brain Ultrastructure and Nanoarchitecture. I. Beritashvili Center of Experimental Biomedicine

2006 October – 2013 February: Associate Professor, Ilia State University (courses: Functional Neuroanatomy. Basic Principles of NanoBiology and NanoMedicine. Nanotechnology in Biology and Medicine. Cytology).

2009 November – 2013 February: Chief Researcher, I. Beritashvili Center of Experimental Biomedicine.

2004 November - 2009 November: Chief Researcher, Life Science Center, Tbilisi, Georgia

2000 January – 2004 October: Head, Laboratory of Brain Structure and Development. I. Beritashvili Institute of Physiology, Tbilisi, Georgia

1996 October - 2000 January: Head of Scientific Group of Chemical Neuroanatomy. I. Beritashvili Institute of Physiology, Tbilisi, Georgia

1973 October - 1996 January: Junior Scientist, Researcher, Leading Researcher - I. Beritashvili Institute of Physiology Georgian Academy of Science, Tbilisi, Georgia

1972 February - 1973 October: Junior Scientist. Council of Electron Microscopy Georgian Academy of Science. Tbilisi, Georgia

Education and Scientific Degrees:

1996 October: Doctor of Biological Science, Specialty “Cell Biology”. I. Javakhishvili Tbilisi State University. Tbilisi, Georgia

1980 March – Candidate of Biological Science. Specialty “Cytology” – Tbilisi Medical State University, Tbilisi.

1973 October - 1978 September: Aspirant courses. Specialty: "Brain Ultrastructure". Institute of Brain USSR Medical Academy of Science, Moscow

1969 September - 1971 July – Tbilisi I. Chavchavadze State Institute of Foreign Languages. Faculty of French Language

1966 September - 1971 July: Tbilisi State University. Biological Faculty. Specialty " Cytology, Histology, Embryology"

Professional trainings, courses:

2007, 2008 October – Trainings in Atomic Force Microscopy, VEECO), Tbilisi

2003 July – European Workshop on Neurostereology, Paris

2003 January – February: Institute of Molecular Biology, Uppsala University, Finland

1999 July-August: Department of Animal Science, Iowa State University, USA

1990 September – October: Institute of Brain, Bulgarian Academy of Sciences, Sofia

1909 May-June: Prague State University, Prague, Czechoslovakia

1985-1992 - International trainings on Electron Microscopy: (Reichert, Leica, Austria) – Moscow, Uzhgorod, Tbilisi

1999 June – 1999 August – International Woman and Science Engineering Leadership Program; UNESCO and Iowa State University (Iowa State University, USA)

Trainings related with Science Education:

2003, 2004, 2005, 2007, 2010 July- August: Summer Institute of SRENCER Program (Science Education for New Civic Engagement and Responsibility); Funded by NSF, USA.

Authorship of scientific articles:

Author of more than 90 articles published in international scientific journals and editions.

Participation in international scientific congresses, symposiums, seminars:

Presenter in more than 100 congresses, symposiums, conferences, seminars

Participation in scientific projects (last five years):

2010-2013, Project 6/09, funded by Shota Rustaveli National Scientific Foundation (Tbilisi, Georgia) - Dendritic spine plasticity and epileptic neuron; Atomic Force Microscopic and Two-Photon Microscopic Study. Author and Manager

2006-2009, Project funded by Shota Rustaveli National Scientific Foundation (Tbilisi, Georgia). Corticotropin-releasing hormone intracerebroventricular administration provoked stress: molecular changes and the role of catecholamines in these alterations – Author and Manager

2012-2015, Project funded by Shota Rustaveli National Scientific Foundation (Tbilisi, Georgia): Modulation of hippocamp-dependent memory by septohipocampal cholinergic and non-cholinergic projections: behavioral and immunocytochemical study (N 13/10). – Head of Group of Immunohistochemical Studies

2006-2009 - Project funded by Shota Rustaveli National Scientific Foundation (Tbilisi, Georgia): The Role of cholinergic system in memory and learning. Head of Group of Immunohistochemical Studies

2007 – Competition for purchase of Scientific Equipment, funded by Shota Rustaveli National Scientific Foundation (Tbilisi, Georgia): Atomic Force Microscope (VEECO - Author

Professional Membership::

IBRO (International Brain Research Organization)

SfN (American Society for Neuroscience)

FENS (European Society for Neuroscience)

Sigma Xi (American Society of Scientists)

Sigma Xi-Georgia (President)

Georgian Society of Physiologists

Member of Scientific Councils and Editorial Boards::

2008-2011 – Representative Council, Ilia State University

2013-2015 – Scientific Council, I. Beritashvili Center of Experimental Biomedicine

1998-2004 – Scientific Council, I. Beritashvili Institute of Physiology

1998-2004 – Scientific Council (Dissertations) – I. Beritashvili Institute of Physiology

2000-2003 – Georgian Journal of Neuroscience

Projects and other activities, related with Science Education:

2014 October -2015 October: Science Education and Georgian Democracy. Project funded by Sigma Xi (International Scientific Society), USA – Author

2004-2007 – USA Program „Science Education for New Civic Engagement and Responsibility“, funded by NSF, Coordinator of the Program in Georgian Medical State University

2011 – Monograph “Leader and Leadership” Funded by UNESCO and Georgian Technical University

Mentorship:

6 PhD AND 5 MD

Now: Mentor of 3 PhD students

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Lectures (currently):

- Functional Neuroanatomy for Master Students, Ilia State University
- Basic Principles of Nanobiology and Nanomedicine – for Master students, Ilia State University
- Nanotechnology in Biology and Medicine – for PhD students, Ilia State University
- Neuron Pathology. Structure and Ultrastructure - - for PhD students. Ilia State University
- Modern Approaches of Neurobiological research – for PhD students
- Cytology – for Bachelor students

- Functional Neuroanatomy –for PhD student. Invited Professor, Saint Andrew Georgian University
- Functional Neuroanatomy –for MD student. Invited Professor, Saint Andrew Georgian University
- Cytology and Histology – for foreign students of Medical School. Invited professor, University of Georgia, Tbilisi

Organization of international scientific conferences, symposiums, workshops:

- 2014, October** - III International Scientific Symposium “NEUROPLASTICITY:NERVOUS SUBSTRATE FOR HEALTH AND DISORDER: NEW APPROACHES FOR RESEARCH” – *Organizer and Head of Scientific Committee*
- 2012 April** - “Brain Awareness Week” , Educational seminar for BA program students from different universities, funded by IBRO (International Brain Research Organization) and FENS-ს; I.Beritashvili Centre of Experimental Biomedicine; Co-organizer
- 2012 June** – “CARL ZEISS: Optical and Confocal Microscopy” (funded by CARL ZEISS Institute, Germany), თბილისი, Main Organizer
- 2012 September** - II ISTC International Scientific Symposium “NEUROPLASTICITY:NERVOUS SUBSTRATE FOR HEALTH AND DISORDER: NEW APPROACHES FOR RESEARCH” – Main Organizer and Head of Scientific Committee
- 2010 October** - 1st ISTC International Scientific Workshop “Neuroplasticity: Nervous Substrate for Health and Disorder: new approaches for research”, Tbilisi, Georgia – Head of Organizing and Scientific Committee
- 2009 October** – First International Symposium “Vision and Cognition”, Co-Organizer
- 2008 , 2007 October** – International Trainings on Atomic Force Microscopy (VEECO) – I. Beritashvili Institute of Physiology, Tbilisi, Georgia; - **Organizer**
- 2004 March** - “Brain Awareness Week”, educational seminar for different universities’ BA program students, funded by IBRO (International Brain Research Organization) and FENS-ს (Federation of European Neurosciences); I.Beritashvili Institute of Physiology, Tbilisi, Georgia – Co-organizer
- 2003 June** – International conference „Gaining Knowledge and Skills Needed for Scientific Communication and Collaboration”, funded by US “Sigma Xi Research Society, US American Academy of Sciences, CRDF, GRDF, IWISE (international Women in Science and Engineering), European Center of Advanced Science, UNESCO, Iowa State University (USA) – **Head of Organizing Committee**
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Organization of conferences, symposiums, workshops, seminars, concerning Science Education:

**2004-2007 – Seven International scientific workshops, congress, seminars and conferences in the frame of
NSF Program “Science Education for New Civic Engagement and Responsibility (NSF, USA) -
Organizer and Co-organizer**

2003 – International Seminar “Gaining Knowledge and Skills needed for Scientific Communication and
Collaboration”, funded by Sigma Xi (USA), UNESCO, CDRF, GNSF, NSF SENCER Program, other
international and national organizations – Head

Languages::

Georgian - native
English = Fluent
French – Fluent
Russian – Fluent
Spanish - Reading

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