

CURRICULUM VITAE

Personal Information:

Name Lia Gelazonia
Date of Birth 1972.05.14
Place of Birth Tbilisi, Georgia.
Citizenship Georgian
Marital Status Married
Address I.Beritashvili Center of Experimental Biomedicine,
14 Gotua str., 0160, Tbilisi, Georgia.
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Education:

1993 – 1997 I.Javakhishvili State University of Tbilisi, GEORGIA (Bachelor's course).
1997 – 1999 I.Javakhishvili State University of Tbilisi, GEORGIA.
Faculty of Biology and Medicine, the Master's course;
Specialty - Immunology.
2001 – 2004 Ph.D student. Department of Neuromorphology, I.Beritashvili Institute of
Physiology, Georgian Academy of Sciences.
Specialty – Cytology, Histology, Embryology

Diploma / Degree:

1997 Bachelor in Biology.
1999 Master in Biology.
2006 PhD in Fundamental Neurosciences.

Title of Dissertation:

Influence of toluene intoxication on learning process and structure of cortical and subcortical regions of rat brain

Place of Work:

2019 - present Invited lecturer, Faculty of medicine, University of Georgia.
Course of: Cytology, Histology, Embryology
2012 – present Senior scientist. Department of Neurotoxicology,
I.Beritashvili Center of Experimental Biomedicine, Tbilisi, Georgia
2011 – present Laboratory doctor, TSMU Givi Zhvania Academic Clinic Of Pediatri
2010 Research Associate, Department of Biological Sciences,
The University of Texas at Brownsville, USA.
2008 Vizitor Scientists. Department of Biology, Kaizerslautern's Technical
University, Germany.

2009 Senior scientist. Department of Neuroanatomy
I.Beritashvili Institute of Physiology, Tbilisi, GEORGIA

2006 – 2009 Scientist. Department of Neuroanatomy
I.Beritashvili Institute of Physiology, Tbilisi, GEORGIA.

Skills:

Animal's transcardial perfusion. Stereotaxic surgery.
Histology (paraffin, frozen and acute slice preparation and staining), methods of molecular biology: immunohistochemistry, Elisa. Light, Fluorescent and confocal laser scanning microscopies. Ca²⁺ oscillations in acute brain slices. Cell culture.
Behavioral tests (open field, multi-branch maze, Morris tank).
Clinical and biochemical investigations of blood, Urine, Body Fluid...

Grants:

15.09.2016 – 09.05.2017 Grant N: SS16_B_014 "Cellular secretion in normal and pathological: neurological diseases from diabetes" key personal

Shota Rustaveli National Science Foundation

2010–2012 Grant of Georgian National Scientific Foundation (GNSF) (Prof. M. Zhvania, PI); Structural plasticity of dendritic spines in epilepsy: atomic force and two-photon microscopic investigations; Role: Investigator

2006 – 2009 Georgian National Scientific Foundation (GNSF) "Molecular changes provokes by corticotrophin-releasing hormone cerebroventricular administration and role of catecholamines in these changes"
Role: Investigator

Awards and Honors:

2010 – 2012 Grant of Georgian National Scientific Foundation (GNSF). Participant.
Project title "Structural plasticity of dendritic spines in epilepsy: atomic force and two-photon microscopic investigation"

2008 - Scholarship of the DAAD (German Academic Exchange Service). 01/10/2008-01/01/2009,
Department of Biology, Technical University of Kaiserslautern, Germany.

2008 - FENS Travel Grant for 6th FENS FORUM (July 12-16, Geneva, Switzerland)

2006 – 2009 Grant of Georgian National Scientific Foundation (GNSF). Participant.
Project title "Molecular changes provokes by corticotrophin-releasing hormone cerebroventricular administration and role of catecholamines in these changes".

2006 - NIDA/IBRO Travel Grant for NIDA (National Institute on Drug Abuse) Mini-Convention, "Frontiers in Addiction" and Society for Neuroscience (SfN) Annual Meeting. Atlanta, GA, USA.

1997-1998 - Stipend of G. Soros Foundation.

Membership of Societies: International Brain Research Organization (IBRO),
Federation of European Neurosciences (FENS),
Georgian Neuroscientists Association (GNA)

Conferences:

2019 – L. Gelazonia, N Japaridze - 4th International Symposium and School for Young Scientists "Brain and Neuroplasticity. Cellular and Molecular Aspects" 1 – 7 May, Tbilisi, Georgia

2017 – N.O. Pochkhidze, M.N. Zhvania, N.J. Japaridze, **L.K.Gelazonia** "Immediate and persisting effect of toluene chronic inhalation on behaviour in maze and on hippocampal structure in adult and adolescent rats" FENS Regional Meeting 2017, PÉCS, Hungary.

2015 – L. GELAZONIA, I. LAZRISHVILI, T. BIKASHVILI, N. MITAGVARIA;
"Manganese loading induces male interspecific predatory aggression in nonaggressive rats" Society for Neuroscience (SfN) 45th Annual Meeting, October 17-21, Chicago, USA

2014 - M.N. Zhvania, N.O. Pochkhidze, N.J. Japaridze, L.K.Gelazonia " Immediate and persisting effect of toluene chronic exposure on memory and hippocampal structure in adolescent and adult rats" 28th International Behavioral Neuroscience Congress, Las Vegas, USA

2014 – T. Bikashvili, L. Gelazonia, I. Iazrishvili " Effect of manganese exposure on rat emotional behavior and brain morphology" Society for Neuroscience (SfN) 44th Annual Meeting, November 15-19, Washington, DC

2014 - N.O. Pochkhidze, M.N. Zhvania, Lia K. Gelazonia, Manana G. Dashniani. "Toluene, Hippocampus Structure and Recognition Memory: adult and adolescent rats" III International Symposium. "Neuroplasticity: Nervous substrate for health and disease" Oct. 2 – 5, Tbilisi, Georgia

2013 – M Ksovreli, N.J. Japaridze, L.K.Gelazoni, M.N. Zhvania, " Neuronal porosome and Hypokinetic Stress: Transmission Electron Microscopic Study " International Multidisciplinary Microscopy Congress, 10 – 13 Oct, Antalya, Turkey

2013 - N.O. Pochkhidze, M.N. Zhvania, N.J. Japaridze, L.K.Gelazonia, L.B. Kruashvili
" The persisting and immediate effects of inhalation exposure to toluene in spatial and object recognition memory in rats" Tbilisi 1st International Conference 2013 Oct "Merging neuroscience and medicine: implications for brain disorders "

2013 - N.O. Pochkhidze, M.N. Zhvania, N.J. Japaridze, L.K.Gelazonia, L.B. Kruashvili
"Effect of toluene chronic exposure on exploratory behavior and recognition memory in adolescent and adult rats" Third national congress, 2013 Oct, Tbilisi, Georgia

2012 – Lia K. Gelazonia, Lela R. Chilachava, Manana G. Dashniani, Tamar Z. Bikashvili, Nadezhda J. Japaridze, Mzia G. Zhvania " Immediate and Persisting Effect of Toluene Chronic Exposure in Adolescent Rats " II International Symposium. "Neuroplasticity: Nervous substrate for health and disease", Tbilisi, Georgia, Sept. 25 – 29

2012 - Lela R. Chilachava, Lia K. Gelazonia, Tamar Bikashvili, Nadezhda J. Japaridze, Mzia G. Zhvania " Toluene Chronic Exposure Affects Behavior of Rats in Multi-branch Maze" II International Symposium. "Neuroplasticity: Nervous substrate for health and disease" Tbilisi, Georgia, Sept. 25 – 29

2012 - L. Lazrishvili, Tamar Z. Bikashvili, Lia K. Gelazonia, Vera G. Okuneva "Does Manganese Excess Aggravate Mouse Killing Behavior of Rats? " II International Symposium. "Neuroplasticity: Nervous substrate for health and disease" Tbilisi, Georgia, Sept. 25 – 29

2012 - Lordkipanidze T., Bikashvili T., *Gelazonia L.* "Changes Of Spine Shape, Density And Motility In Hippocampal Neurons During Chemically Induced Model Of Epilepsy ". 8th FENS Forum, Barcelona, Spain, 14-18 July, 2012.

2011 - Zhvania M , *Gelazonia L.*, Bikashvili T., Japaridze N. " Effect of toluene chronic exposure on hippocampus structure and hippocampus-dependent memory in adolescent and adult rats" 24th ECNP Congress (European College of Neuropsychopharmacology), 3-7 September, Paris, France.

2011 - *Gelazonia L.*, Okuneva V, Japaridze N. Zhvania M " Toluene intoxication causes different effects on the brains of adult and young rats "24th ECNP Congress (European College of Neuropsychopharmacology), 3-7 September, Paris, France.

2010 - Okuneva V., *Gelazonia L.*, Bikashvili T., Japaridze N. & Zhvania M. "The alterations provoked by Corticotropin Releasing Hormon (CRH) intracerebroventricular (ICV) administration, NO blood plasma level and role of catecholamines in this alterations " 7th FENS Forum 2010 , Amsterdam, Netherlands

2010 - L. *GELAZONIA*, T Bikashvili T., Chilachava L, Japaridze N, Zhvania M "Effect of toluene on the process of learning in rats" : 40th Society for Neuroscience, 2010 San Diego, CA, USA

2009 - *Gelazonia L.*, Okuneva V, Zhvania MG, Japaridze NJ, Mikava R, Pipia N. "The effect of corticotrophin-releasing-hormone intracerebroventricular administration on immune function and the role of catecholamines in this effect". Society for Neuroscience (SfN) 39th Annual Meeting. Chicago, IL, USA.

2009 - L. Chilachava, L. *Gelazonia*, N. Japaridze, R. Mikava, M. Zhvania " Toluene intoxication: structural reorganization and alteration on behavior in adolescent and adult rats" Society for Neuroscience (SfN) 39th Annual Meeting. Chicago, IL, USA.

2009 - L. Chilachava, G. Maglakelidze, M. Zhvania, M. Dashniani, L. *Gelazonia* "The effects of inhalation exposure to toluene on spatial and object recognition memory in rats" Istanbul, Turkey.

2009 – Zhvania M, Bikashvili T, *Gelazonia L.*, Okuneva V, Mikava R. "Molecular changes provokes by corticotrophin-releasing hormone cerebroventricular administration and role of catecholamines in these changes" 36th International Congress of Physiological Sciences, Kyoto, Japan 2009.

2009 - Japaridze N, Chilachava L, *Gelazonia L.*, Melia N. " The structure of neuronal dendrites in nucleus accumbens after rat toluene exposure". 36th International Congress of Physiological Sciences, Kyoto, Japan 2009.

2009 - L. Chilachava, G. Maglakelidze, M. Zhvania, M. Dashniani, L. *Gelazonia* "The effects of inhalation exposure to toluene on spatial and object recognition memory in rats ". 1st international Symposium on Vision and Cognition, Tbilisi, Georgia.

2009 - L. *Gelazonia* , L. Chilachava, T. Bikashvili, M. Zhvania, N. Japaridze "Effect of toluene on the process of learning in rats" 1st international Symposium on Vision and Cognition, 22nd September 2009, Tbilisi, Georgia

2008 - *Gelazonia L.*, Okuneva V., Chilachava L., Japaridze N., Zhvania. "Toluene intoxication Decrease number and somata area of neurons in the motor cortex of young rats" 6th FENS Forum, Geneva, Switzerland.

- 2007 - *Gelazonia L.*, Chilachava L, Melia N, Japaridze N, Dashniani, Zhvania M.
 "Toluene destroy learning processes in young rats" **39th Annual Meeting of European Brain and Behavior Society (EBBS), Trieste, Italy.**
- 2007 - N. Japaridze, *L. Gelazonia*, M. Dashniani "Influence of solvent inhalation on brain structure and animal behavior" **Congress of World Biological Psychiatry. Chile.**
- 2007 - *L. Gelazonia*, L.Chilachava, N. Melia, V. Okuneva, N. Japaridze, M. Zhvania "Toluene provokes different effect on the motor structures of periadolescent and adult rats" **Society for Neurosciences (SfN) 37th Annual Meeting, San Diego, California, USA.**
- 2006 - *Gelazonia L.*, Japaridze N., Gegenava L. Svanidze I. "Toluene intoxication causes loss of projection mitral neurons in olfactory bulbs of rats." **5th FENS Forum, Vienna, Austria.**
- 2006 - *L. Gelazonia*, N. Japaridze, I. Svanidze "Toluene intoxication causes loss of projection neurons in olfactory bulbs, but does not alter number of progenitor cells in rostrally migratory stream of rats" **(NIDA) mini-convention and Society for Neurosciences (SfN) 36th Annual Meeting, Atlanta, Georgia, USA.**
- 2005 - *L. Gelazonia*, I. Svanidze. "Effect of toluene intoxication on motor cortex structure in rats of various age groups" **FENS/BLACKWELL Summer School in Ofir, PORTUGAL.**
- 2004 - *L. Gelazonia*, I Svanidze "Influence of Toluene intoxication on the structure of Nucleus Caudatus in the rats". Scientific Conference of Georgian Physiologists, **Kutaisi, GEORGIA**
- 2001 - *L. Gelazonia*, N. Japaridze "Influence of Toluene intoxication on the number of neural cells in rats of various age groups " The Georgian Young Neuroscientists Conference at the I.Beritashvili Institute of Physiology, **Tbilisi, GEORGIA.**
- 1999 - *L. Gelazonia*, L. Sereda. Students' and Masters' 59-th Conference at the I.Javakhishvili State University of **Tbilisi, GEORGIA**
- 1996 - *L. Gelazonia*. N. Sikharulidze. Students' and Masters' 56-th Conference at the I .Javakhishvili State University of **Tbilisi, GEORGIA.**

List of Publications:

1. Iliia Lazrishvili, Tamar Bikashvili, **Lia Gelazonia**, Nodar Mitagvaria "Manganese loading induces mouse-killing behavior in nonaggressive rats " *Journal of Biological Physics and Chemistry*. Sep 2016
2. Zhvania M., Japaridze N., Chilachava L., **Gelazonia L.**, Pochkhidze "Chronic toluene exposure and hippocampal structure in adolescent and adult brain" King College-Edition, London, England, Editor: Viktor R. Preedy; "Neuropathology of Drug Addictions and Substance Misuse" Chapter 93. Pages: 1012-1022, 2015
3. Zhvania M., Japaridze N., Chilachava L., **Gelazonia L.**, Pochkhidze "Toluene chronic exposure alters hippocampal structure in adolescent and adult brain (experimental study)" The Georgian National Academy of Sciences - "Collected Works of I.Beritashvili center of Experimental Biomedicine" 2015
4. Iliia Lazrishvili, Tamar Bikashvili, Asmat Shukakidze, **Lia Gelazonia**, Nodar Mitagvaria "Effect of manganese chloride short-term administration on the neonate and mature rats learning ability "
Book Title: "Systemic, cellular and molecular mechanisms of physiological functions and disorders" Pages: 103-113, 2015. NOVA BIOMEDICAL eBOOK, USA.
5. Iliia Lazrishvili, Tamar Bikashvili, **Lia Gelazonia**, Asmat Shukakidze, Nodar Mitagvaria "Manganese loading cause induction of aggressive behaviour in nonaggressive rats"
Book Title: "Systemic, cellular and molecular mechanisms of physiological functions and disorders" Pages: 115-124, 2015. NOVA BIOMEDICAL eBOOK, USA.
6. Mzia Zhvania, Nadezhda Japaridze, Lela Chilachava, Manana Dashniani, Tamar Bikashvili, **Lia Gelazonia**, Maya Burjanadze "Immediate and Persisting Effect of Toluene Chronic Exposure on Hippocampal Cell Loss, learning and Memory in Adolescent and Adult Rats" Book ID: _1375., Book Title: Toluene: Chemical Properties, Applications and Toxicology
Pages: 53-92, 2013. NOVA Publishers, New York
Nova Science Publishers. Inc
NY, USA www.novapublishers.com
7. T. Z. Bikashvili, L. R. Chilachava, **L. K. Gelazonia**, N. J. Japaridze, M. G. Zhvania, T. G. Lordkipanidze and V. G. Okuneva "Effect of chronic inhalation of toluene on behavior of rats of various age groups in multi-branched maze." *Bull Exp Biol Med*. 2011 Mar; 152(5):587-9. English, Russian. PMID: 22803140
8. Zhvania MG, Chilachava LR, Japaridze NJ, **Gelazonia LK**, Lordkipanidze TG "Immediate and persisting effect of toluene chronic exposure on hippocampal cell loss in adolescent and adult rats." *Brain Res Bull*. 2012 Feb 10;87(2-3):187-92. PMID: 22119731

9. I.L. Lazrshvili, T.Z. Bikashvili, **L. Gelazonia** and V. Okuneva “ Does manganese excess induce the mouse-killing behavior in initially nonaggressive rats ? “ Journal of Biological Physics and Chemistry, 12 (2012) 158-160.
10. Zhvania M. G, Japaridze N. J, **Gelazonia L. K**, Chilachava L. R, Melia N, R.
“The neurobiology addiction and effect of addictive drugs on the brain structure”,
Morphology. 2009; N(1): 58-61. Russian
11. Okuneva V., **Gelazonia L**, Japaridze N.J., Bikashvili T, Zhvania M.G. “Effect of nadolol injected prior to CRH on stress-induced plasma corticosterone level in rat. “Georgian Med News. 2009 Oct;(175):71-3. PMID: 19893132
12. Okuneva V., Zhvania M., Japaridze N., **Gelazonia L**, Lordkipanidze T.
“Stress-system: Corticotropin-releasing hormone and catecholamines ” Georgian Med News 2009 Jul-Aug;(172-173):65-9. Review. PMID: 1964419
13. L.R. Chilachava, T.Z. Bikashvili, , **L.K. Gelazonia**, M.G. Zhvania, N.D. Japaridze
“Effect of toluene on the process of learning in rats” Proceeding of the Georgian Academy of Sciences, Biological Series A, 2009; 36 (42-46)
14. L. Chilachava, G. Maglakelidze, M. Zhvania, M. Dashniani, **L. Gelazonia** “The effects of inhalation exposure to toluene on spatial and object recognition memory in rats” Proceeding of the Georgian Academy of Sciences, Biological Series A, 2009; 36 (28-32)
15. **Gelazonia L**, Japaridze N, Svanidze I.
Pyramidal cell loss in hippocampus of young rats exposed to toluene.
Georgian Med News. 2006 Jun;(135):126-8. PMID: 16905830
16. **Gelazonia L**, Japaridze N, Maglakelidze G, Svanidze I.
“Influence of toluene intoxication on the number of mitral and granular neurons in olfactory bulbs of rats”. Georgian Med News. 2006 Apr; (133):99-101.
PMID: 16705243
17. M. Dashniani, G. Maglakelidze, T. Naneishvili, R. Aragveli N, **L. Gelazonia** .
“Role of Nucleus Accumbens and Nucleus Caudatus in Long-Term Memory Formation of a Nonassociative Learning Task in the Rat”. Georgian Journal of Neurosciences, 2(1), 2006, 29-35.

18. **L. Gelazonia**, N. Japaridze, I. Svanidze.
“Influence of Pre- and Postnatal Toluene Exposure on the Development of Granule Cell Layer in Fascia Dentate in the Rat” Georgian Journal of Neurosciences, 2 (1), 2006, 45-50.

19. Monaselidze D, Kiladze M, Barbakadze Sh, Kvavadze R, Chkhaidze M, Gelazonia L, Svanidze I.
”Effect of toluene on stability of chromatin of white rat hippocampus and olfactory bulb in vivo. Microcalorimetric study”. Biofizika. 2005 Nov-Dec; 50(6):1131-6. Russian. PMID: 16358795

20. **L. Gelazonia** , M. Dashniani, N. Japaridze, G. Maglakelidze, Ts. Tsaishvili, I. Svanidze.
“Effect of toluene intoxication on learning processes in rats at different stages of ontogenetic development”. Proceeding of the Georgian Academy of Sciences, Biological Series, 2004, v 30, N 5. p 611-618.

21. **L. Gelazonia**, M. Dashniani, N. Japaridze, G. Maglakelidze, Ts. Tsaishvili, I. Svanidze.
“Influence of toluene intoxication on the morpho-functional indices of neurons in the neostriatum of the rats”. Proceeding of the Georgian Academy of Sciences, Biological Series, 2004, v 30, N 1. p 29-36.

22. N. Japaridze, **L. Gelazonia**, L. Gegenava, I. Svanidze. “Influence of pre – and early postnatal toluene intoxication on development of olfactory bulbs in rat’s offspring”. Proceeding of the Georgian Academy of Sciences, Biological Series, 2003, v 29, N 1-2. p 235-241.