



CV

1. Personal Information

Surname	CHACHUA
Name	MATRONA
Mail	m.chachua@seu.edu.ge

2. Position and specialty

Position:	Professor
Specialty	Medicine

3. Academic/Scientific degree

Name of the higher education institution	Institute of Plant Biochemistry of the Academy of Sciences of Georgia
Direction/ Specialty	Biochemistry
Enrollment date	March 22, 1996
Dissertation defense date	08.12.1995
qualification	Ph.D.
Title of the dissertation topic	Isolation, purification and physico-chemical characterization of lectin-like protein pH 3 (40) in rat brain
Conductor of the theme	Prof. N.Aleksidze, Corresponding Member of the Georgian Academy of Sciences

4. Other education

I		
Name of the higher education institution	Iv. Javakhishvili Tbilisi State University	
Faculty / Specialty	Biology / Biochemistry and Biotechnology	
Date of the enrollment/Graduation	Beginning (yy)	End (yy)
	1987	1989
Qualification	Master	
II		

Name of the higher education institution	Iv. Javakhishvili Tbilisi State University	
Faculty / Specialty	Biology / Biochemistry and Biotechnology	
Date of the enrollment/Graduation	Beginning (yy)	End (yy)
	1984	1987

5. Professional experience

Date (mm/yy)		Employer	Position / duties
-from	-to		
2006	Today	Faculty of Exact and Natural Sciences Iv. Javakhishvili Tbilisi State University	Senior Scientist, Invited teacher
2006	2000	Laboratory of Biologically Active Compounds of the Chair of Biochemistry Iv. Javakhishvili Tbilisi State University	Senior Scientist
2000	1998	Laboratory of Biologically Active Compounds of the Chair of Biochemistry Iv. Javakhishvili Tbilisi State University	Scientist
1997	1993	Chair of Biochemistry Iv. Javakhishvili Tbilisi State University	Senior Laboratory Assistant
1993	1991	Chair of Biochemistry Iv. Javakhishvili Tbilisi State University	Aspirant
1990	1989	Chair of Biochemistry and Biotechnology Iv. Javakhishvili Tbilisi State University	Laboratory Assistant

6. Scientific-pedagogical experience

Date (mm/yy)		Higher Education Institutions	Study course / Research project	Learning step
-from	-to			
2012	Today	Iv. Javakhishvili Tbilisi State University	General Biochemistry, Nervous Tissue Biochemistry, Cardiovascular Biochemistry, Respiratory Biochemistry, Genitourinary Biochemistry, Digestive System Biochemistry, Endocrine System Biochemistry - English Language Program	1
2008	Today	Iv. Javakhishvili Tbilisi State University	Neurochemistry, Biochemistry of Behavior	Master

7. scientific publications

Date	Topic of the working theme	Scientific Journal	Publisher
2017	Effect of exogenous creatine on blood lipid spectrum.	FEBS JOURNAL. 284, 347-348,	
2016	Long-lasting stress, quantitative changes in nitric oxide concentration and functional state of heart muscle cells	FEBS JOURNAL 283, 382-382,	
2016	Mental stress disorders and calcium induced changes in nitric oxide levels in rat hippocampus.	FEBS JOURNAL. 283(): 64-65,	
2016	Investigation of brain creatine levels under the mental stress conditions	Journal of Stress Physiology & Biochemistry, 12, 4, 5-14,	
2015/07/01	Functional state of rat heart muscle cells and blood antioxidant system under psychoemotional stress: P10-012.	The FEBS Journal. 282():113, JUL 2015. Issn Print: 1742-464X	
2015/07/01	Alterations in functional status of rat brain mitochondria under circadian rhythm disorders: P24-008.	The FEBS Journal. 282():298, JUL 2015 Issn Print: 1742-464X	
2015/07/01	Alterations of creatine levels in rat brain under stress conditions long-term social isolation: P29-020.	The FEBS Journal. 282():309-310, JUL 2015 Issn Print: 1742-464X	

2014	Changes in Activity of Hippocampus Creatine Kinase Under Circadian Rhythm Disorders	Biological Rhythm Research, 45, 5, 685-697 http://dx.doi.org/10.1080/09291016.2014.888172	
2012	Long-lasting stress, quantitative changes in nitric oxide concentration and functional state of brain mitochondria	Acta Neurobiol Exp., 72, 1, 40–50, www.ane.pl/pdf/7204.pdf .	

8. Other activities

Research works presented at scientific conferences

- Burjanadze G, Dachanidze N, Menabde K, Chachua M, Koshoridze M, Koshoridze N. Stress related changes in Na⁺/K⁺-ATPase activity and way of action of creatine. In FEBS OPEN BIO 2018 Jul 1 (Vol. 8, pp. 363-363). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
- Effect of exogenous creatine on blood lipid spectrum. 42nd FEBS Congress. Jerusalem Israel, 10-14 September, 2017.
- Alterations of Creatine Levels in Rat Brain Under Stress Conditions Long-term Social Isolation. 40th Congress of The Federation of the European Biochemical Societies, Berlin, Germany, July, 2015.
- Surface changes in the erythrocyte membrane of rats under conditions of psycho-emotional stress. Ivane Javakhishvili Tbilisi State University, the 1st scientific conference in exact and natural sciences of the faculty - 2013.
- Brain Mitochondria and Long-lasting Psycho-emotional stress. 11. 22nd YUBMB and 37th FEBS Congress Seville, Spain, 2012.

Participate at international forums

1	International Scientific Conference, Actual Problems of Biol. and Medicine, Georgia, Tbilisi, 218-220, 2005.
	Activity of NaK-ATPase in Various Rat Tissues in Norm and under Stress
2	Int. Conference on Fundamental Questions of Neuroscience, Georgia, Tbilisi, 13-16 October, 2010
	Activity of pro-and antioxidant system in under stress under stress caused by izolation and violation of diurnal cycle.

3	European XXVI National Congress of Cardiology (EBAC), P.257, 2010
	Pro-and antioxidant system in cardiac histiocytes and blood under stress caused by isolation and violation of diurnal cycle.
4	3rd Annual International Conference, Athens, Greece, 2010
	Insecticidal Action of Chitin-binding Lectin (MChbL) from European Mistletoe (Viscum album L.) Against Lepidoptera Pests
5	8th World Congress of Neuroscience, 2011
	Functional Status of Brain Mitochondria under Psycho-Emotional Stress
6	11. 22nd YUBMB and 37th FEBS Congress, 2012
	Brain Mitochondria and Long-lasting Psycho-emotional stress
7	40 th Congress of The Federation of the European Biochemical Societies, 2015
	Alterations of Creatine Levels in Rat Brain Under Stress Conditions Long-term Social Isolation
8	42nd FEBS Congress. Jerusalem Israel, 10-14 September, 2017.
	Effect of exogenous creatine on blood lipid spectrum P.5.4-003

Current research interests (research / projects / grants)

- Metabolic changes in the hippocampus and prefrontal cortex caused by chronic psycho-emotional stress.

Received Grants

	Years	Role in the Project	Name of the Project	Donor Organization
1	2014-2017	Main Staff	Impact of Psycho-Emotional Stress on Brain Energy Metabolism among Naturally Aggressive Animals	Shota Rustaveli National Science Foundation

2	2009-2012	Project Manager	Isolation and Violated Diurnal Cycle Stress-Induced Changes in Energy Metabolism and Possibilities for Prevention Thereof.	Shota Rustaveli National Science Foundation(Grant GNSF/ST08/2-375)
3	2009-2010	Main Staff	Development of a New Type of Plant Entemotoxic Biopesticydes for the Control of the Pests of Lepidoptera Order	Shota Rustaveli National Science Foundation
4	2005	Main Staff	Lectins in Norm and Pathology (Biomedical Aspects)	Ministry of Education and science of Georgia. Research Support Program. Project “18”
5	1998	Main Staff	Discovery, Purification, Physical and Chemical Characteristics and Use in Practical Medicine of Biologically Active (Immunomodulator, anticarcinogenic, Antimicrobial, Growth Stimulating, etc.) New Compounds	Ministry of Education of Georgia. Grant Program of Georgian Universities, 03.00.04, (Grant #37)

Professional development

- Workshop “Learning, Teaching and Assessment”, Tbilisi, 10-11 July, 2019
- 2nd International School of Applied Biosciences and Biotechnology”1-5 Aril, 2019
- Training “Problem Based Learning (PBL)”, Tbilisi,. February, 2019
- Workshop “Teaching and Assessment Methods in Medical Education”. Tbilisi, October, 2018.
- Training session “Problem Based Learning in Medical Education”. Tbilisi, May 2018.
- Workshop on Molecular Life Sciences Education. Federation of European Biochemical Societies. Tbilisi, October, 2013,
- iEARN (International Educational and Resource Network).

Supervisor of thesis/reviewer

- Peer reviewing of a Ph.D. thesis: Doctoral student Malkhaz Vakhania; the title of the doctoral thesis: “Isolation of lectins from Aloe aristata organs, physical and chemical characterization and function”. Section of biological sciences of the Dissertation

Council of the School (Faculty) of Informatics, Mathematics and Natural Sciences; Saint Andrew the First-Called Georgian University of the Patriarchate of Georgia, 2016.

- Peer reviewing of a Ph.D. thesis: Doctoral student Maia Khurtsidze; the title of the doctoral thesis: “Study of the biochemical properties, physiological roles and biological activities of the chitin specific lectins of *Chelidonium majus*”. Section of biological sciences of the Dissertation Council of the School (Faculty) of Informatics, Mathematics and Natural Sciences; Saint Andrew the First-Called Georgian University of the Patriarchate of Georgia, 2017.
- Peer reviewing of a Ph.D. thesis: Doctoral student Nino Dumbadze; the title of the doctoral thesis: “Study of the biochemical properties, physiological roles and biological activities of the mannose specific lectins of the Georgia’s endemic plant *Polygonatum obtusifolium* Misch.”. Section of biological sciences of the Dissertation Council of the School (Faculty) of Informatics, Mathematics and Natural Sciences; Saint Andrew the First-Called Georgian University of the Patriarchate of Georgia, 2017.

Membership of academic / public organization

- Since 2002 – Member of the Georgian Association of Biochemists
- Since 2007 – Member of the Federation of the European Associations of Biochemists