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Name, Surname:

Irina Modebadze

Date and Place of Birth:

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E-Mail: irina.modebadze@tsu.ge**Education:**

1992-1998 – Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Biology and Medicine; Specialty – Biology; Qualification - Biologist, Teacher of Biology and Chemistry; Number of Diploma - A № 07740.

2001-2004 - Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Biology and Medicine, Speciality – Cytology, Histology and Embriology (03.00.11); Qualification – Candidate of Biological Sciences PHD; Number of Diploma - № 004148.

Employment Experience:

1998-2004 - Laboratory Assistant; Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Biology and Medicine, Laboratory of Developmental Biology.

2004-2005 - Younger Scientific researcher; Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Biology and Medicine, Laboratory of Developmental Biology.

2004-2006 - Head Teacher; Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Biology and Medicine; Department of Cytology, Histology and Developmental Biology.

2006-2009 - Invited lecturer; Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Exact and Natural Sciences, Department of Biology, Division of Morphology.

2009 – 2014 – Assistant Professor; Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Exact and Natural Sciences, Department of Biology, Division of Morphology.

2014 - till now – Associate Professor; Iv. Javakhishvili Tbilisi State University (TSU), Faculty of Exact and Natural Sciences, Department of Biology, Division of Morphology.

Main Spheres of Interest:

Cell Biology, Histology, Molecular Biology, Biochemistry, Immunology, Modern laboratory investigations in cell and molecular biology, Regeneration of parenchymal organs, Growth factors.

Lecturing commitment:

Cell Biology, Histology, Research methods in Cell and Developmental Biology.

Bachelor's and Master's theses leadership:

Giorgi Mosidze (master) - The influence of protein complex derived from adult rat brain on the rat's hippocampal progenitor cells proliferative activity, 2011.

Natia Lipartia (bachelor) - The Influence of Endogenous Protein Complex on The Quantity of ki-67 Positive Cells in Infant Rats Pancreas, 2011.

Salome Murghulia (master) - The Study of Rat Pancreas Endogenic Thermostable Protein Complex Action Mechanism, 2012.

Natia Lipartia (master) - The Influence of Endogenous Protein Complex on the proliferative activity of adult rat pancreas cells, 2013.



Elisashvili Tamar (bachelor) – The identification of the active component from the pancreatic thermostable protein complex, 2105

Maziashvili nino (bachelor) - Effect of extract of walnut (*Juglans regia* L) septum on prothrombin characteristics during leucopenia in white mice, 2017.

Participation in several Grant project:

2009 – Manager, Principal Investigator - The Identification and Characterization of Thermostable Protein Complex Isolated from Rat Pancreas Tissue; Georgian National Science Foundation (GNSF/PRES08/6-339).

2010-2012 – Main staff. Effects of extracellular ubiquitin on alcoholic and nonalcoholic liver regeneration; Shota Rustaveli National Science Foundation (#09-616-2-160/1-2/54)

Computer Skills :

Microsoft Word, Excel, PowerPoint, Photoshop, CorelDRAW, Microsoft Windows 98/00, Internet, E-mail.

Languages:

Georgian – native, Russian – fluent, English – good.

Publication (last 5 years):

1. Sujashvili R, Bakuradze E, **Modebadze I**, Dekanoidze D, Qirikashvili I. In vivo investigation of extracellular ubiquitin effect on liver histoarchitectonics. *Georgian Med News*. 2011,(191):77-81.
2. Vadachkoria Z., Dzidziguri L., Bakuradze E., Mosidze G., **Modebadze I**, Dzidziguri D. Influence of Halothane Narcosis on A Change of The Number of GABA-Positive Cells In The Hippocampus of Adult Rats With the Midazolam Premedication. *Georgian Medical News*, 2011; 4(193):46-50.
3. Boqueria LA, Boqueria OL, Salia NT, Dzidziguri DV, Gotovsky M., Mohamed Ali, WH Bakuradze ED, **Modebadze I.R**. The influence of endogenous bio-resonance therapy on the change in blood biomarkers of acute myocardial infarction in the experiment. *Bulletin of Bakoulev Scientific Center for Cardiovascular Surgery* 2011. Volume 12, (3):38-43.
4. LA Boqueria, OL Boqueria, NT Salia, DV Dzidziguri, MY Gotovsky, VH Mohamed Ali, ED Bakuradze, **IR Modebadze**. Morphological changes in rat hippocampus during the false transactions galotanovym anesthesia in combination with bioresonance influence. *Traditional Medicine* 2011, 1 (24): 4-7. ISSN: 1818-6173
5. Sujashvili Rusudan, Ekaterine Bakuradze, **Irina Modebadze**, Davit Dekanoidze. In vivo introduce extracellular Ubiquitin regulates intracellular processes. *Word Academy of Science Engineering and Technology*, 2012, Issue 61(326):376-379. <http://www.waset.org/journals/waset/v61.php>
<http://journalseeker.researchbib.com/?action=viewJournalDetails&issn=2010376X&uid=r0dfb1>
6. **I. Modebadze**, M. Rukhadze, E. Bakuradze, D. Dzidziguri. Pancreatic Cell Proteome - Qualitative Characterization And Function. *Georgian Medical News*, 2013; 7-8(220-221):71-77.
7. R. Sujashvili, E. Bakuradze, **I. Modebadze**, D. Dekanoidze. Ubiquitin in combination with alcohol stimulates proliferative activity of hepatocytes. *Georgian Medical News*, 2013; 10(223):86-90.
8. Diana Dzidziguri, Marina Rukhadze, **Irina Modebadze**, Nani Giorgobiani, Levan Rusishvili, Giorgi Mosidze, Elene Tavdishvili, Ekaterine Bakuradze. The comparative study of thermostable protein macromolecular complex (cell proteomics) from different organisms. *Polymers and High Performance Materials*, Nova Science Publisher, 2014 Chapter 30.
9. Vadachkoria Z., Dzidziguri L., Bakuradze E., **Modebadze I**, Oganezovi N., Dzidziguri D. Comparative study of growth inhibitory protein complex derived from different forms of children hemangioma. *Georgian Med News*. 2015, (246):73-7.

10. D Dzidziguri, M Rukhadze, **I Modebadze**, E Bakuradze, M Kurtanidze, V Giqoshvili. THE STUDY OF THE IMMUNE CORRECTIVE PROPERTIES OF GREEK WALNUT (JUGLANS REGIA L.) SEPTA ON THE EXPERIMENTAL MODEL OF LEUKOPENIA. Georgian Medical News, **2016**, 252:84-89.
11. Vadachkoria Z. , Dzidziguri L., Ghibradze G., Modebadze I., Mikadze M., Dzidziguri D. THE NEW APPROACH FOR STUDY THE GROWTH REGULATION OF VARIOUS FORMS OF CHILDREN HEMANGIOMA. Ukrainian dental Almanac. **2016**. No 3 (1): 10-12.
12. 18. N.T. Saliya, O.L. Bokeriya, D.V. Dzidziguri, E.D. Bakuradze I.R. Modebadze – Ph. D. “Effect of exposure of bioresonance endogenous electromagnetic fields on the proliferative activity of regenerating liver of experimental animals”. “ELECTROMAGNETIC WAVES AND ELECTRONIC SYSTEMS”, 2017, 22(5).
13. Diana Dzidziguri, **Irina Modebadze**, Ekaterine Bakuradze, Giorgi Mosidze, Manana Berulava. Properties of the thermostable protein complex of rat brain inhibiting the cell proliferation. Cell J (Yakhteh), **2018**, Volume 19(4), Serial Number: 76, 552-558.

Conferences (last 5 years):

1. D. Dzidziguri, M. Rukhadze, E. Bakuradze, **I. Modebadze**, I. Gorozia, V. Abashidze The comparative study of endogenous growth inhibiting factors of pro- and eukaryotic cells FASEB Journal **2009**; 23:LB181.
2. E. Bakuradze, I. Modebadze, G. Mosidze, L. Ninua, D. Dekanoidze D. Dzidziguri. Changes Of Hepatocytes Nuclear Membrane Permeability In Cholestatic Liver. Joint EASL – AASLD Monothematic Conference – Nuclear Receptors and Liver Disease, Vienna, Austria, Febr 27, **2009**, pp. 46.
3. D. Dzidziguri, E. Bakuradze, I. Modebadze, G. Mosidze, L. Dzidziguri and Z. Vadachkoria. The comparative study of halothane depressant effect on morphofunctional different parts of the rat hippocampus. Synaptic Inhibition in Health and Disease, October 15-16, **2009**, Chicago, Illinois USA.
4. S. Qemoklidze, E. Bakuradze, I. Modebadze, D. Dekanoidze, L. Ninua, D.V. Dzidziguri, Influence of the Truncal Vagotomy on the liver Regeneration. Abstracts of the scientific board of 13th ESS Meeting. **2009**. November 27th Tbilisi, Georgia.
5. D. Dzidziguri, E. Bakuradze, **I. Modebadze**, L. Ninua, D. Dekanoidze, L. Rusishvili. The adaptation mechanisms of liver in combined pathology FASEB J. 2010 24:lb402
6. Diana Dzidziguri, Natalia Chiladze, **Irina Modebadze**, Tamar Mchedlidze, Teimuraz Tumanishvili, and Boris kudryavtsev. The liver regeneration of land snail Helix lucorum. Anaheim, CA, USA; April 6, 2010
7. D. Dzidziguri, M. Rukhadze, **I. Modebadze**, E. Bakuradze, G. Mosidze. *The influence of adult rats brain endogenous protein factor on neurogenesis*. Adult neurogenesis: Srtucture and Function, Germany May 27-29, 2010.
8. **Modebadze I.**, Bakuradze E., Ninua L., Dekanoidze D., Dzidziguri D. Adaptive growth features of rat cholestatic liver FASEB J, 2011 25:794.3
9. **Modebadze I.**, Bakuradze E., Ninua L., Dekanoidze D., Dzidziguri D. Adaptive growth features of rat cholestatic liver. Experimental Biology 2011, Washington DC, USA 9-13 April, 2011.
10. E. Bakuradze, L. Ninua, **I. Modebadze**, D. Dekanoidze, D. Dzidziguri. Liver ability to regulate adaptive growth at combined pathologies. The 22nd Wilhelm Bernhard Workshop, 25-30 August, Riga, Latvia 2011.

11. Z. Vadachkoria, L. Dzidziguri, E. Mitaishvili, G. Mosidze, E. Bakuradze, **I. Modebadze** D. Dzidziguri. “*The influence of halothane on behavioral parameters of rats with midazolam premedication*” 2011, July 14-18. The 8th IBRO (International Brain Research Organization) World Congress of Neuroscience Florence, Italy.
12. E. Bakuradze, **I. Modebadze**, G. Mosidze, D. Dzidziguri. “*The inhibition of infant rat hippocampal progenitor cell proliferation with endogenous protein factor.*” The 8th IBRO (International Brain Research Organization) World Congress of Neuroscience Florence, Italy. 2011, July 14-18.
13. Sujashvili R, Bakuradze E, **Modebadze I**, Dekanoidze D. Inhibition of hepatocytes proliferative activity by in vivo injected extracellular ubiquitin. Cell Biology of Ubiquitin-Dependent Degradation Pathways 11-13th September **2011**, University of Liverpool.
14. 20. Sujashvili R, Bakuradze E, **Modebadze I**, Dekanoidze D – Molecular Insights for Innovative Therapies, 1—3 December **2011**, Heidelberg, Germany.
15. D. Dzidziguri, G. Mosidze, **I. Modebadze**, E. Bakuradze, M. Berulava. “The influence of adult rat brain protein complex on the proliferative activity of rats hippocampal progenitor cells”. International Scientific Conference Actual Problems in Neurobiology. Iv. Javakhishvili Tbilisi State University. 2011, 9-10 December.
16. D. Dzidziguri, G. Mosidze, **I. Modebadze**, E. Bakuradze, M. Berulava. “The Influence of halotane on the Proliferative Activity of Dental Gyrus. ISTC international scientific seminar "neuroplasticity: nervous substrate for health and disease. New approaches for research" September 25-27, 2012, Tbilisi, Georgia.
17. D. Dzidziguri, G. Mosidze, M. Berulava, **I. Modebadze**, E. Bakuradze. The influence of rat brain protein factor on the GAD65/67 positive cell quantity in hippocampus of growing rats. 8th FENS Forum of Neuroscience, July 14-18, 2012, Barcelona, Spain.
18. S Kiparoidze, E Bakuradze, **I Modebadze**, T Sanikidze, D Dzidziguri. Comparative study of liver functional characteristics in combined pathologies by the method of electron paramagnetic resonance. Journal of Clinical and Experimental Hepatology, 2013; 3 (1), S121.
19. D. Dzidziguri, M. Rukhadze, **I. Modebadze**, N. Giorgobiani, L. Rusishvili, G. Mosidze, E. Tavdishvili, E. Bakuradze. “*The Comparative Study of Thermostable Protein Macromolecular Complexes (Cell Proteomics) From Different Organisms*” 2013, September 8-11. The 3rd International Caucasian Symposium on Polymers and Advanced Materials Tbilisi, Georgia.
20. S. Kiparoidze, D. Dzidziguri, E. Bakuradze, **I. Modebadze**, G. Nebieridze. HGF SIGNALING PATHWAY AND CELL POLYPLIODIZATION IN CHOLESTATIC LIVER. The International Liver Congress™ **2014**, 49th annual meeting of the European Association for the Study of the Liver. Journal of Hepatology 60 (1), S207-S208.
21. Diana Dzidziguri, Marina Rukhadze, **Irina Modebadze**, Nani Giorgobiani, Levan Rusishvili, Giorgi Mosidze, Elene Tavdishvili, Ekaterine Bakuradze, The comparative study of thermostable protein macromolecular complex (cell proteomics) from different organisms. Polymers and High Performance Materials, Nova Science Publisher, **2014** Chapter 30.
22. E. Bakuradze, **I. Modebadze**, G. Mosidze, E Peradze, D. Dzidziguri The influence of endogenous protein complex on morpho-functional activity of bone marrow cells (616.3), The FASEB Journal 28 (1 Supplement), **2014**.
23. G. Mosidze, **I. Modebadze**, E. Bakuradze, L. Rusishvili, N. Bedineishvili, M. Berulava, N. Giorgobiani, D. Dzidziguri. Action Mechanism and Function of Protein Complex Derived from Adult Rats Brain. The First SDSU – Georgia STEM WORKSHOP on Nanotechnology and Environmental Sciences **2015**, September 4-5, Tbilisi, Georgia.

24. E. Cherkezia, **I. Modebadze**, T. Labartkava, M. Miqava, A. Kordzadze, P. Tchelidze, D. Dzidziguri. The effect of endogenous proteins on spermatogenesis and the advantage of 3d reconstruction in evaluation of morphofunctional activity of testes. The First SDSU – Georgia STEM WORKSHOP on Nanotechnology and Environmental Sciences **2015**, September 4-5, Tbilisi, Georgia.
25. Z. Vadachkoria, L. Dzidziguri, G.Ghibradze, E. Bakuradze, **I. Modebadze**, N. Oganezovi, M. Mikadze, D. Dzidziguri The study of growth inhibitory protein complex derived from different forms of hemangioma. The First SDSU – Georgia STEM WORKSHOP on Nanotechnology and Environmental Sciences **2015**, September 4-5, Tbilisi, Georgia.
26. D.Dzidziguri, S.Kiparoidze, E.Bakuradze, **I.Modebadze**, G.Nebieridze The study of hepatocyte polyploidization using a model of cholestatic liver. The First SDSU – Georgia STEM WORKSHOP on Nanotechnology and Environmental Sciences **2015**, September 4-5, Tbilisi, Georgia. <http://eprints.tsu.ge/237/1/abstract%20book-final.pdf>
27. Diana Dzidziguri¹, **Irina Modebadze**¹, Ekaterine Bakuradze¹, N.Oganezovi¹, L.Rusishvili¹, L.Dzidziguri², Z.Vadachkoria². The Comparative Study of Growth regulating polymeric compounds in cells with different degree of transformation. 4th International Caucasian Symposium on Polymers and Advanced materials. **2015** 1-4 June, Batumi, Georgia. <http://www.gfp.asso.fr/events/4th-international-caucasian-symposium-on-polymers-and-advanced-materials>.
28. Tamar V. Sanikidze, Salome A.Kiparoidze, **Irina R.Modebadze**, Eka D.Bakuradze, Irina Dj. Pkhakadze, Diana V. Dzidziguri. Role of Reactive Oxygen and Nitrogen Species in Pathogenesis of Cholestasis (Experimental Model).Book of Abstracts:114. IEEE International Conference on e-Health and Bioengineering.EHB **2015**, IASI.
29. D. DZIDZIGIRI, M. RUKHADZE, **I. MODEBADZE**, N. GIORGOBIANI, L. RUSISHVILI, G. MOSIDZE, E. TAVDISHVILI, E. BAKURADZE. EXTRACTION AND COMPARATIVE CHARACTERIZATION OF THERMOSTABLE PROTEIN COMPLEXES. Physical Chemistry for the Chemical and Biochemical Sciences. CRC Press. 2016/3/30, p. 375.

Voluntary commitment:

- Annual Scientific Conference for students and pupils - Current issues of biology and medicine - Organizing Committee Member.
- Participate in workshop Children's University Summer Academy.
- Co-leader of the Georgian national team in the International Biology Olympiad.
- Organizing Committee Member of ENS 2018, TSU, Georgia.