

List of scientific works

Lela Topuria

1. Biosynthesis of fructofuranosidase (*Aspergillus niger* 147 A da *Allesheria terrestris*) by the transformant obtained by fusion of micromycetes. Bulletin of the Georgian Academy of Sciences, Biology Series, Vol. 21, **1995**. T. Buachidze, E. Adeishvili
2. Immobilization of Invertase Produced from Fusant onto Inorganic Carrier. Bull. Georgia Acad. Sci., 153, N1, **1996**. T. Buachidze
3. Purification and Partial Characterization of Invertase from Fungal Fusant. Bull. Georgia Acad. Sci., 154, N1, **1996**. T. Buachidze
4. Some Physicochemical and Enzymatic Properties of Fungal Fusant Invertase. Bull. Georgia Acad. Sci., 154, N2, **1996**. T. Buachidze
5. Acid Transformation of Derivatives of D-xylose. Bull. Georgia Acad. Sci., 156, N3, **1997**. R. Ghakhokidze, N. Sidamonidze, L. Tabatadze, A. Ghokidze.
6. Theoretical investigation of the rearrangement of 2-deoxyglucose semialdehyde into 3,4-dihydroxydipic acid within the scope of the ANB-matrices method. Georgian Engineering News N1(5), **1998**. R. Ghakhokidze, M. Gevdtseteli, A. Ghokidze.
7. Study of Acidic Isomerization of some Disaccharides by Gas-Liquid Chromatography. Bull. Georgia Acad. Sci., 158, No. 1, **1998**. R. Ghakhokidze, N. Sidamonidze, N. Okujava, N. Itriashvili, L. Tabatadze
8. Stereospecific Synthesis of α -substituted Derivatives of Glucose. Bull. Georgia Acad. Sci., 158, No. 2, **1998**. R. Ghakhokidze, N. Sidamonidze, L. Bedukadze, L. Gordeladze, L. Talakhadze
9. Educational scientific-research work of students (methodical instruction). ed. "Technical University", Tbilisi, **1999**. T. Buachidze
10. Theoretical study of the Rearrangement of Dihydroxyacetone into Glyceraldehyde within the scope of the Quasi-ANB-matrices method. Proceedings of young scientists with a scholarship of the President of Georgia I.SSN 1512-0430, N3, **2001**. M. Hvadtseteli, A. Ghakhokidze, N. Chimakadze
11. Algebraic chemical investigation of photosynthesis process. Scholarship of the President of Georgia for young professionals I.SSN 1512-0430, N4, **2002**. A. Ghokidze, M. Hvadtseteli

12. α - and β -glucosidases and β -fructofuranosidase of mutant strains. Plant microbioc enzymes, 2-5 July **2007**, Tbilisi, Georgia. M. Tsereteli, N. Zhdanova, M. Gomartheli N. Butskhrikidze, T. Buachidze
13. Algebraic-Chemical Investigation of the Structure-Properties Correlation for the Esters of Caproic Acid. Georgian Engineering News #1 (vol.49), **2009**, r. Ghakhokidze, M. Hvedtsiteli
14. Algebra-chemical study of the structure-property correlation for dialkyl sulfates within the framework of the quasi-PNS matrix method. Georgian Engineering News N1 (vol.49), **2009**. R. Ghakhokidze, M. Gvedtsiteli
15. Biochemistry of proteins (methodological guidelines). ed. "Technical University", Tb., **2009**. T. Buachidze
16. Microbiology (methodological guidelines). "Technical University" publishing house Teti", Tbilisi, **2009**. M. Sidamonidze- Eristavi, T. Buachidze
17. Mathematical and chemical study of unbranched carboxylic acids. Georgian Engineering News N4. **2010**. R. Ghakhokidze, K. Kupertadze, M. Hvedtsiteli
18. Enzyme preparations of β -galactosides and invertases of the mutant strain *Penicillium Canescens* TK-85 and prospects for their use in food crannies. international conference microbiology and ecology ways of integration problems and prospects t9 N1, Baku **2011**. Tsereteli A.K., Daushvili L.P., Butskhrikidze N.G.
19. Collection of laboratory works in immunology. "Technical University" publishing house, Tbilisi **2011**. Lasareishvili, T. Buachidze
20. Prospects for obtaining absolute extracts (not containing traces of residual solvents) from Georgian plant materials. Georgian Chemical Journal 13(1) **2013**. Matsaberidze M, Skhiladze R., Gakhokidze. R, Dzhincharadze M.
21. Filters and their use in pharmaceutical and microbiological technologies (manual). Assistant head. Faculty of Bioscience and Pharmacy, St. "Georgica" Tbilisi, **2013**
22. Visco-elastic properties of blood vessels and role of their change in the development of pathological processes. Материали за X Междун. научна практична конф. «Найновите Научни Постижения – 2014», 17-25 март 2014, том 24, Лекарство, София, **2014** . A.L. Isakadze, G.G. Eliava, T.G. Tsintsadze, T.Sh. Buachidze, L.G. Berulava

23. Normal and pathological respiratory system and broncholytic therapy with sympathomimetic drugs (manual). For students, residents and doctors, ed. "Georgika", tb., **2014**. Eliava, A. Isakadze, T. Tsintsadze

24. The importance of the mechanisms of influence of the respiratory tract at the rehabilitation stage of patients with cor pulmonale. Current problems of pathology, therapy and medical rehabilitation, Collection of scientific articles, publishers: Tbilisi balneologist. Tbilisi-SPA resort, National Scientific and Practical Center for Health and Medicine. rehabil., Acad. medicotex. Sciences Russian Fed., Tb-Moscow, TBK-RAM-TN, **2014**. Eliava G.G., Isakadze A.L., Tsintsadze T.G., Tabidze M.Sh., Buachidze T.Sh.

25. The role of reflectory influences in the activity of sino-atrial node. Actual problems of Pathology, Therapy and Medical Rehabilitation, Collection of scientific articles, Tbilisi Balneological resort Tb. SPA – Nat. Scient. and Pract. Centre of Health and Medical Rehabil., Sciences of Russian Feder, Tb-i-M: TBR-RAM-TS, **2014**. G. Eliava N. Saakashvili, T. Tsintsadze, M. Tabidze, T. Buachidze

26. Peculiarities of purification of enzymes when used in medicine and agriculture and comparative assessment of their use in laboratory and production conditions. Scientific periodical "Messenger" (**2014**, vol. 2, #3, Gam-Ba, "Georgika"). g. Eliava, T. Tsintsadze, T. Buachidze

27. Peculiarities of the design and operation mode of potato shredding machines in connection with raising the yield of starch. Science. period. Jur. "Messenger" **2014** T. 2, #3, Gam-ba "Georgika"). c. Eliava, T. Buachidze

28. Characteristics of clinical manifestations and laboratory signs of typical and atypical forms of myocardial infarction. science period. Jur. "Messenger" (**2014**, vol. 2, #3, Gam-Ba, "Georgika"). c. Eliava, A. Isakadze, T. Tsintsadze, T. Buachidze

29. Composition structure of bone tissue and its change during physical physical load and formation of pathological state. Materials of the X International Scientific and Practical Conference, "Prospects of World Science – 2014", July 30-August 7, **2014**, vol. 7, Medicine, Biological sciences, Chemistry and chemical technology, Ecology. Sheffield. United Kingdom, Science and Education Ltd., England&Wales. Eliava G., Isakadze A.L., Svanishvili T.G., Tsintsadze T.G

30. Cycle ergogram dynamics during dosed physical activity. XII National Scientific Conference "Actual Problems of Physiology and Biomedicine", September 25-27, **2014**, Kutaisi, conference theses. c. Eliava, R. Svanishvili, T. Tsintsadze, T. Buachidze

31. Determination of biomechanical criteria of human motion and their significance for assessment of pathological state. Modern Aspects of Medical Rehabilitation, Prevention and Healthy Lifestyle. Collection of scientific articles of International Symposium. Dedi. to 75th

Anniversary of Tbilisi balneological resort (now: Tbilisi Balneology Resort "Tbilisi-SPA" – Natl. Centre of Health and Rehabilitation) and to the 15th **2014**. G. Eliava, P. Kasradze, T. Tsintsadze, M. Tabidze

32. Dynamics of electroergogram during dosed physical exercise. *Sat. i know Acad. the messenger Biomedicine Series*, Volume 40, **2014**, N5-6. c. Eliava,, R. Svanishvili, T. Tsintsadze
33. Ways of bioconversion of vegetable matter. Scientific periodical "Messenger of the United Nations" **2015** Volume 2. N4, gam-ba "Georgika". c. Eliava, T. Tsintsadze, L. Topuria
34. Self-cleaning of the flotation device during the production of edible yeast. article. Scientific periodical "Messenger of Gaetni" (**2015**, Vol. 2, N4, Gam-Ba "Georgika". G. Eliava, T. Buachidze, L. Topuria
35. Peculiarities of operation of flotation devices for nutritional yeast during production. Scientific periodical "Messenger of Gaenati" (**2015**, Vol. 2, N4, Gam-Ba, "Georgika"). c. Eliava, T. Buachidze, E. Topuria
36. Comparative characterization of different theories of atherosclerosis development mechanisms. Scientific periodical "Messenger of Gaenati" (**2015**, Vol. 2, N4, Gam-Ba, "Georgika"). c. Eliava, D. Gabunia, T. Tsintsadze, R. Khavanadze
37. Antibiotics Penicillins. Part I. Helpful Handbook for Students, Residents, and Physicians, ed. "Georgika", Tbilisi, **2015**. G. Eliava, A. Isakadze, T. Tsintsadze
38. Change in activity of central and autonomic circuits of heart rhythm regulation in case of dysfunction of airways. Materials of the XI International scientific and practical conference "Modern Scientific Potential – 2015", February 28 – March 7, **2015**, v. 29, Medicine. G. Eliava, A. Isakadze, T. Tsintsadze
39. Ways of bioconversion of plant matter. Scientific periodical "Messenger of the United Nations" **2015** Volume 2. N4, gamba "Georgika". c. Eliava, T. Tsintsadze, E. Topuria
40. Dependence of Physical Activity on Functional Status of Airways and its Importance in Rehabilitation Processes. VII International Conference "Modern Aspects of Rehabilitation in Medicine" Armenia, Yerevan, 16-18.09. **2015**. Eliava G., Isakadze A., Tsintsadze T., Kasradze P., Mzhavanadze R., Buachidze T., Topuria E.
41. "Significance of anatomic-physiological and biotechnical criteria for assessment of functional status of gastrointestinal tract during full development of clinical picture and in post-rehabilitation period. In the international collection of scientific articles International Collection of scientific articles, "The Questions of Health resort managing, physiotherapy and rehabilitation", vol. 1, Tbilisi, TBR, **2016**. G. Eliava, T. Tsintsadze, R. Mzhavanadze, M. Balashvili, L. Topuria, T. Buachidze, L. Berulava

42. Action of professional factors on orlorgans and significance of rehabilitation of nasal breathing disorders in complex treatment of motor disturbances. International Scientific Review - April **2017**, N4(35), XXXIII International Scientific and Practical Conference. International Scientific Review of the problems and prospects of Modern Science and education. L. Isakadze, G.G. Eliava, T.R. Svanishvili, P.A. Kasradze, R.G. Mzhavanadze, M.I. Bakashvili, L.S. Topuria
43. Mechanisms of therapeutic action of electromagnetic radiation on the human body. Technical University of Georgia, State Educational University of Physical Education and Sports, Tbilisi **2017**. G. Eliava, T. Tsintsadze, P. Kasradze, R. Khavanadze, M. Balashvili, E. Topuria
44. Loatation and extraction processes and their use in chemical-pharmaceutical and microbiological production. Publishing house "Geor-Gika" 2017 ISBN 978-9941-0-9947-2 Tbilisi **2017**. G. Eliava, T. Tsintsadze, E. Topuria
45. Comparative analysis of some indicators and statistical assessment methods of physical development and their importance when conducting rehabilitation measures. International Collection of Scientific Articles "The Questions of Health Resport, Managing, Physiotherapy and Rehabilitation", Vol. II, Tbilisi, **2018**. M. Jashi, P. Kasradze, T. Tsintsadze, L. Topuria
46. Some issues of rehabilitation measures in case of osteogenesis mechanisms disturbance. International Colle-ction of Scientific Articles "The Questions of Health Resport, Managing, Physiotherapy and Rehabilitation", Vol. II, Tbilisi, **2018**. P. Kasradze, T. Tsintsadze, T. Svanishvili, E..
47. Drying in laboratory and chemical-pharmaceutical production conditions. Help Guide, ed. "Georgika", Tbilisi, **2018**. T. Tsintsadze, L. Topuria
48. Comparative characteristics of two outstanding Saxon persons and chronology of key milestones of Samuel Hahnemann's life. XXXIX International Scientific and Practi-cal Conference "European Research: Inno-vation in Scie-nce, Education and Technology", April 8-9, **2018**, London, UK. Isakadze A.L., Kasradze P.A., Mzhavanadze R.G., Balashvili M.I., Topuria L.S.
49. "Assessment of the scene of hot chocolate girl from the viewpoint of dynamic equilibrium according to Jean-Etienne Liotard's picture "La Belle Chocolatiere" XLI International Cor-respondence Scien-tific and Practical Conference: "European Research: Innovation in Science, Education and Technology", June 7-8, **2018**, London UK. Tsintsadze T.G., Kasradze P.A., Svanishvili T.R., Buachidze T.Sh., Topuria L.S.
50. On some recovery mechanisms of motional activity when con-ducting rehabilitation process. COLLECTION OF SCIENTIFIC ARTICLES OF INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE DEDICATED TO 80TH ANNIVERSARY OF TBILISI BALNEO-

LOGICAL RESORT, June 15, **2018**. Tbilisi. G.G. Eliava, T.G. Tsintsadze, P.A. Kasradze, T.R. Svanishvili, Z.G. Sopromadze, E.R. Tataradze, T.Sh. Buachidze, L.S. Topuria

51. Fundamentals of ultrasound therapy. auxiliary name-gift mediumcino for students of specialties, residents and doctors, ed. "Georgika", Tbilisi, **2019**. G. Eliava, N. Chabashvili, Z. Sopromadze, T. Svanishvili, E. Tataradze, M. Sopromadze, L. Topuria
52. Mechanisms of therapeutic effect of ultraviolet rays and their promoting factors. LVIII International Correspondence Sci-en-tific and Practical Conference "Interna-tional Scientific Revi-ew of the Problems and Prospects of Modern Science and Education", Boston, USA, 22-23 May, **2019**. Publishing Ho-use "Problems of Science" .Gabunia D.D., Eliava G.G., Mzhavanadze R.G. ,Balashvili M.I., Buachidze T.Sh.,Topuria L.S.
53. Osteoporosis and intergrated approach to its treatment. TBILISI BALNEOLOGICAL RESORT Intrenational Colletion Of Sientific Articles "The Questions Of Health Resort Managing, Physioteraphy And Rehabilitation" Volume III Tbilisi **2020**. G.G.Eliava, P.A.Kasradze, R.G.Mzhavanadze, M.I.Balashvili, T.Sh.Buachidze, L.S.Topuria
54. Taking the technical preparation of invertase. Georgia. Ceramics Association Magazine Vol. 22.2(44). **2020**. L. Topuria
55. Some aspects of osteoa-rthrosis spread prevention and treatment“. LXXI Interna. Corresp. Scientific and Practical Conference "International Scientific Review of the Problems and Prospects of Modern Science and Education", Boston, USA, June 22-23, **2020**). Publishing House "Problems of Science. P.Kasradze, R.Mzhavanadze, M.Balashvili, T. Buachidze, L.Topuria, E.Topuria
56. Flotation and extraction processes and their use in chemical-pharmaceutical and microbiological production. auxiliary name For students of medical and biological specialties, masters and doctoral students. ed. "Geor-Gika", Tb., **2020**. G. Eliava, T. Tsintsadze, L. Topuria, E. Topuria
57. Isolation, purification and characterization of β -fructofuranosidase. Monograph **2020**. L. Topuria, E. Topuria
58. Administration of invertase technical preparation. "Ceramics" magazine of the Association of Ceramicists of Georgia, **2020**. e. Topuria, L. Topuria
59. The role of anatomico-physiological peculiarities in pathogenetic mechanisms developmen. LXX International Correspondence Scientific and Practical Conference: "European Research: Innovation in Science, Education and Technology", March 10-11, **2021**, London UK. Eliava G.G. Tsintsadze T.G. Kasradze P.A. Mzhavanadze R.G. , Balashvili M.I. , Topuria L.S.

60. Use of spreadsheet editor MS Excel in the calculation of chemical-pharmaceutical production facilities. Auxiliary manual TBI-LIS, "Georgika" publishing house, **2021**. G. Eliava, T. Tsintsadze, L. Topuria

61. "Medical means and kinesitherapy in the disease of the anterior gland." Help Guide. "Georgika" publishing house, Tbilisi **2022**. ISBN 978-9941-8-4597-0. G. Eliava, P. Kasradze, T. Tsintsadze, L. Topuria, E. Topuria,

62. „Changes in culture medium composition during thermal sterilization and opportunities for its modeling“. LXXXVII International Scientific and Practical Conference “International Scientific Review of the Problems and Prospects of Modern Science and Education”, Boston, USA, **2022**. G. Eliava, T. Tsintsadze, L. Topuria

63. „THE ROLE OF THE UPPER RESPIRATORY TRACTS IN ORGANISM HOMEOSTATIC FUNCTION PRESERVATION. LXXIX International Correspondence Scientific and Practical Conference: “European Research: Innovation in Science, Education and Technology”, March 07-08, **2023**, London UK. ISBN 978-1-948507-04-02 UDC 08 .Eliava G. Tsintsadze T. Kasradze P. Mzhavanadze R. Balashvili M. Topuria L. Topuria

64. „TACTILE STIMULATION PECULIARITIES DURING DIFFERENT FUNCTIONAL STATUS OF THE BODY. LXXXIX International Correspondence Scientific and Practical Conference: “International Scientific Review Of The Problems And Prospects Of Modern Science And Education”, May 25-27, **2023**, Boston. USA ISBN 978-1-64655-143-9. Eliava G., Gabunia D., Kasradze P. , Balashvili M., Mzhavanadze R. Topuria L.

65. Importance of Laser Therapy in Homeostasis Preservation System and Psychoemotional Structures Activity. «International Scientific Review of the Problems and Prospects of Modern Science and Education» (collection of scientific articles. XC international correspondence scientific and practical conference. August 30-31, **2023**, Boston. USA. ISBN 978-1-64655-145-3. Eliava G.G., Tsintsadze T.G., Natroshvili I.G., Svanishvili T.R., Kvinikadze I.R., Gogokhia N.G., Topuria L.S.