

## Professor Ioseb Sh. Chikvaidze



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E-mail: [iosebchikvaidze@yahoo.com](mailto:iosebchikvaidze@yahoo.com)
- Date of birth:** 14. 01. 1946
- Education, academic status:**
- Higher education** 1964-1969 years, Ivane Javakhishvili Tbilisi State University
- Candidate of chemical science** 1981, Tbilisi State University, Tbilisi
- Senior lecturer** 1988, Tbilisi State University, Tbilisi
- Doctor of science** 1996, Tbilisi State University, Tbilisi
- Professor** 2000, Tbilisi State University, Tbilisi
- Labor activity** 1969-1971 years, military service, lieutenant;  
1972-1973 years, junior research assistant, Institute of Physical and Organic Chemistry;  
1973-1978 years, junior research assistant, Tbilisi State University (TSU)  
1978-1984 years, laboratory assistant, TSU;  
1984-1997 years, senior lecturer;  
1997-2006 years, professor;  
2006-present, associate professor.
- Lecturing** **1984-1988 years**, access course for foreign students, TSU;  
**Since 1988** “Organic Chemistry”, 3-rd year of TSU chemical department and I-II years of commerce and marketing department;  
**Since 2011** – **Practical Organic Chemistry** – “Organicum” - Bachelor of TSU chemical department;  
**Since 2011** – **Chemistry of Petrol and Natural Gases** - Bachelor of TSU chemical department;  
**Since 2011** – **Petrochemical Synthesis** - Bachelor of TSU chemical department;  
**Since 1992** “Chemistry of Heterocyclic Compounds”, magistracy of TSU chemical department;  
**1997-2006** “The Planning of Multiple Synthesis of Organic Compounds” magistracy of TSU chemical department;
- Scientific fields:** Chemistry of Heterocyclic Compounds,  
Delicate Organic and Petrochemical Synthesis  
Chemistry of the Biological Active Compounds.

- Knowledge of languages:** Georgian (native language), Russian (freely), German (with dictionary).
- Transactions:** 237 scientific publications, including 4 certificates of authorship, 7 books (see appendix)
- Grants:** **1993**, individual grant, International Scientific Found ( ISF, J.Soros),  
**1995-1998** – J.Soros Fellowship for doctors of Science  
**1998** - grant of scientific and technological department of Georgia – “The synthesis of new latent catalysts with purpose to increase the effectiveness of the technological process of consolidation of carbamide resins and aminoplastics” – Supervisor;  
**2011-2012** – Grant of Shota Rustaveli National Scientific Foundation – “Developing Methods of Synthesis of Some Pharm-Preparations Marked with Stable <sup>13</sup>C Isotope - Supervisor
- Certifications, awards, patents:** **1995**, certification of expert of the alcoholic drinks, reg. N858930;  
**1997**, certification of expert (foodstuff), reg.N268- 20 363472-014-117.  
**2012** – with co-authors **Georgian Scientific National Academy Petre Melikishvili Award** for series of work published in 2007-2011 – Nitrogen Containing Aromatic Heterocyclic Systems with Potential Biological Activities: Synthesis, Properties, Screening.  
**1990-1991 years**, four certificates of authorship (USSR).  
**2012** - **Order of Honor of the Republic of Georgia**
- Under my direction it was defended:** 9 Ph.D. thesis, 15 master's thesis and about 20 bachelor degree works.
- Membership of councils and unions:** Member of Georgian Chemical Society; The board member of Association of Professional Chemists of Georgia  
**1988 – 2006** Vice-chairman of the dissertation council in chemistry ch 02.03 N1 of Tbilisi State University  
**2006 – present – the member of** the dissertation council of the Faculty of Exact and Natural Sciences of Tbilisi State University
- Family:** **Wife – N.Targamadze**, born in 1949, Ph.D., Senior Researcher;  
**Son – Giorgi**, born in 1983, Doctor – Ophthalmologist;  
**Daughter – Nino**, born in 1985, Master of Chemistry;  
**Granddaughter – Lizi**, born in 2009, **Grandson – Luka**, born in 2014, **Grandson – Elene**, born in 2016,
- Publications:**
- Чикваидзе И.Ш.**, Медведев Б.А., Самсония Ш.А., Машковский М.Д., Суворов Н.Н. Синтез и фармакологическая активность бис-индольных четвертичных аммониевых солей. Химико-Фармацевтический Журнал, 1980, №5, с. 36-39.
  - Чикваидзе И.Ш.**, Самсония Ш.А., Козик Т.А., Суворов Н.Н. Бисиндолы 7. Синтез бис(индолил-5)сульфона. Интернациональный Журнал – Химия Гетероциклических Соединений, 1980, №11, с.1508-1510. Самсония Ш.А.
  - Чикваидзе И.Ш.**, Мегрелишвили Н.Ш., Самсония Ш.А., Суворов Н.Н. Производные индола. 138. Синтез некоторых новых серосодержащих производных индола.

- Интернац. Журнал – Химия Гетероциклических Соединений, 1991, №11, с. 1508-1511.
4. **Чикваидзе И.Ш.**, Мумладзе Э.А., Самсония Ш.А., Курковская Л.Н., Кереселидзе Дж. А., Суворов Н.Н. Бисиндолы 29. Реакции электрофильного замещения в ряду 2,5'-бис-1Н-индола. Инт. Журн. Химия Гетероцикл. Соединений, 1992, №10, с.1336-1341.
  5. **Chikvaidze I.Sh.**, Gogrichiani E.O., Kurkovskaya L.N., Baramidze L.V., Samsoniya Sh.A. "Indole Derivatives 140. Friedel-Crafts Acylation of Some 5-Substituted 2-Ethoxycarbonylindoles with p-Nitrobenzoylchloride". – Khim. Geterotsikl. Soedin. (Russ), 1993, N8, p.1055-1059.
  6. **Chikvaidze I.Sh.**, Targamadze N.L., Samsoniya Sh.A. et al. "Pyrroloindoles 16. Some Reactions of Electrophilic Substitution in 2,7-Diethoxycarbonyl-1H, 6H-Pyrrolo-[2,3-e]-indole" – Khim. Geterotsikl. Soedin. (Russ), 1994, N9, p.1197-1201.
  7. Gogrichiani E.O., **Chikvaidze I.Sh.**, Dzhibladze L.I., Tsotadze M.B., Samsoniya Sh.A., Suvorov N.N. "Synthesis of Some New Arylindoles" – Khim. Geterotsikl. Soedin. (Russ), 1994, N10, p. 1351-1354.
  8. Samsoniya Sh.A., **Chikvaidze I.Sh.**, Gogrichiani E.O., Machaidze N.N., Saliya Z.E. 1,7-Migration of benzyl group in 2-substituted N-benzylindoles. International Journal-Chemistry of Heterocyclic Compounds, 1997, Vol. 33, № 5, p. 527-531.
  9. **Chikvaidze I.Sh.**, Samsoniya Sh.A., Lomadze N.Sh., Targamadze N.L., Saliya Z.E. Pyrroloindoles. 18. An unexpected chlorination reaction during the synthesis of 2,7-diethoxycarbonyl-1H,8H-pyrrolo[3,2-g]indole. International Journal – Chemistry of Heterocyclic Compounds, 2000, v.36, №12, p.1421-1425
  10. Самсония Ш.А., **Чикваидзе И.Ш.**, Нариндошвили Т.Г., Суворов Н.Н. Производные индола. 141. Синтез и исследование новых 2-арилиндолов. Интернациональный Журнал – Химия Гетероциклических Соединений, 2001, №7, с. 899-905.
  11. Samsoniya Sh.A., **Chikvaidze I.Sh.**, Narindoshvili. "2-Phenylindole derivatives". - Selected methods for synthesis and modification of heterocycles, Kartsev V.G., Ed., Moscow: IBS Press, 2004, vol. 3, p. 219-259 (review).
  12. **Chikvaidze I.Sh.**, Samsoniya Sh.A., Narindoshvili T.G. Indole Derivatives 142. Some properties of 4-(indol-2-yl)diphenylmethane and 4-(indol-2-yl)(1,2-diphenylethane). International Journal Chemistry of Heterocyclic Compounds, 2004, No 4 (442), p. 524-529.
  13. Buder, I.; Schwitzgebel, G.; Samsoniya, Sh.; Gogrichiani, E.; **Chikvaidze, I.** Electrochemical behaviour of indole with methyl-, benzyl-, and dibenzyl- groups. – Khimiya Geterotsiklicheskih Soedinenii, 2005. 9(459), 1323-1332 (in Russian) / Chemistry of Heterocyclic Compounds, Ed. Engl. 41(9), 1121-1129 (in English).
  14. Kalatozishvili A.Z., Samsonia N.Sh., Targamadze N.L., **Chikvaidze I.Sh.**, Samsoniya Sh.A., Wesquet A.O., Kazmaier Uli, Bisindoles 41. A straightforward approach towards the synthesis of new bis-pyridazinoindoles. International Journal – Chemistry of Heterocyclic Compounds, 2010 (515), №5, p. 764-768 ([www.osi.lv/hgs/hgs.html](http://www.osi.lv/hgs/hgs.html)).
  15. Samsoniya Sh.A., **Chikvaidze I.Sh.**, Kadzhrishvili D.O., Targamadze N.L. Pyrroloindoles. 22. Optimization of methods of preparation of some isomeric pyrroloindoles. International Journal – Chemistry of Heterocyclic Compounds, 2010, v.515, №5, p. 679-685
  16. Samsoniya Sh. A., **Chikvaidze I. Sh.**, Kadzhrishvili D. O., Barbakadze N. N., Narimanidze N. O. Indole derivatives. Some aspects of E. Fisher reaction. International Journal – Chemistry of Heterocyclic Compounds, 2010, №6, p.944–946. ([www.osi.-lv/hgs/hgs.html](http://www.osi.lv/hgs/hgs.html)).
  17. Samsoniya Sh.A., **Chikvaidze I. Sh.**, Kadzhrishvili D.O., Targamadze N.L. Methods of Synthesis of pyrroloindoles. In: "Heterocyclic Compounds: Synthesis, Properties and Applications". Editor: Kristian Nylund and Peder Johansson. Nova Science Publishers,

- New-York, 2010, pp. 99-118 ([www.novapublishers.com/catalog/product\\_info.php?products\\_id=11450](http://www.novapublishers.com/catalog/product_info.php?products_id=11450)).
18. Samsoniya Sh.A., **Chikvaidze I.Sh.**, Ozdesh M. Pyrriidazinoindoles, Synthesis and Properties. In: "Heterocyclic Compounds: Synthesis, Properties and Applications". Editor: Kristian Nylund and Peder Johansson. Nova Science Publishers, New-York, 2010, pp. 147-170(review)
  19. Narimanidze N., Samsoniya Sh., **Chikvaidze I.** Some Conversions of 5-Acetyl-2-Ethoxycarbonyl-3-p-Nitrophenyl Indole. In: "Heterocyclic Compounds: Synthesis, Properties and Applications". Editor: Kristian Nylund and Peder Johansson. Nova Science Publishers, New-York, 2010, pp. 201-210
  20. Samsoniya Sh.A., Zurabishvili D.S., **Chikvaidze I.Sh.**, Lomidze M.O., Trapaidze M.V., Mamulashvili K.Kh., Lomtadze Z.Sh. Synthesis and Antimicrobial Activity of Some Adamantyl Containing Indoles and Benzopyrroloindole Derivatives. In: "Heterocyclic Compounds: Synthesis, Properties and Applications". Editor: Kristian Nylund and Peder Johansson. Nova Science Publishers, New-York, 2010, pp. 219-222 (review)
  21. Самсония Ш.А., Каджришвили Д.О., **Чикваидзе И.Ш.** Синтез и антимикробная активность некоторых производных пирролоиндолов. Химико-Фармацевтический Журнал, 2011, т.45, №1, с.24-27.
  22. **Chikvaidze I.S.**, Barbakadze N.N., Samsoniya Sh.A. Some new derivatives of 5-aryl-2,5-diaryl- and 2-ethoxycarbonylindoles. Arkivoc, 2012, v.VI, p. 143-154.
  23. Khitiri, G., **Chikvaidze, I.**, Gabunia, T., Tsurtsunia, M. Study and wasteless utilization of the residue after profilaxis of oil pipe-line. - Bulletin of the Georgian National Academy of Sciences, Volume 9, Issue 3, 2015, Pages 103-106.
  24. Samsoniya Sh., Kajrishvili D., Targamadze N., Narimanidze N., **Chikvaidze I.** Synthesis of some Novel Derivatives of Indole and Pyrroloindole. Bulletin of the Georgian National Academy of Sciences, Volume 10, Issue 4, 2016, Pages 50-55.

#### Conference Presentations:

1. XVI Mendeleev Congress in Fundamental and Applied Chemistry, Moscow, Russia, 1998: The New Rearrangement in N-Benzylindoles and Synthesis of New Arylindole Derivatives – by Samsoniya Sh.A., **Chikvaidze I.Sh.**, Narindoshvili T.G., Suvorov N.N. Book of Abstracts, p.262-263;
2. VII International Conference, Russia, Saratov, 1999: Synthesis of Indole-Containing Ligands – by **Chikvaidze I.Sh.**, Samsonia Sh.A., Mumladze E.A., Kobakhidze N.B. Book of Abstracts, p. 25.
3. Second Eurazian Meeting on Heterocyclic Chemistry "Heterocycles in Organic and Combinatorial Chemistry". Russia, Novgorod, 2002, "Synthesis and transformations of some aryl- indoles and bis-indole-aldehydes". – Targamadze N., Narimanidze N., Samsonia N., Tssetsadze N., **Chikvaidze I.Sh.**, Book of Abstracts, p.46.
4. 6<sup>th</sup> Annual Florida Heterocyclic Course and Conference. University of Florida, Gainesville, 2005, Unusual Reactions in the Series of Indole Derivatives and Some Indole-Containing Systems. – Tsikolia M.A., Samsoniya Sh.A., **Chikvaidze I.Sh.**, Targamadze N.L., Narindoshvili T.G., Mumladze E.A. Book of Abstracts. Fl .
5. 9<sup>th</sup> International Symposium on Pharmaceutical Sciences, ISOPS, 2009, 23-26 June, Ankara, Turkey, Samsoniya Sh., **Chikvaidze I.**, Kalatozishvili A., Özdes M. Syntheses of some new 3-arylderivatives of 3-aryl-4-oxo-3H,5H-pyridazino[4,5-b]indoles. P-81, p.203
6. The 11<sup>th</sup> Annual Florida Heterocyclic and Synthetic IUPAC-Sponsored Conference (FloHet-11). March 7<sup>th</sup> - 10<sup>th</sup>, 2010. Organized by ARKAT USA, Inc. And the University

- of Florida, Department of Chemistry. Kalatozishvili A., Katsadze E., **Chikvaidze I.**, Samsoniya Sh. Synthesis of Some Indolylquinazoline systems. p.106 ([www.arkat-usa.org](http://www.arkat-usa.org)).
7. The 12<sup>th</sup> Annual Florida Heterocyclic and Synthetic IUPAC-Sponsored Conference (FloHet-12). Organized by ARKAT USA, Inc. And the University of Florida, Department of Chemistry. USA, FL., 6<sup>th</sup> - 9<sup>th</sup> March, 2011. Kalatozishvili A., Samsoniya Sh., **Chikvaidze I.**, Barbakadze N. Investigation for the Synthesis of Three and Pentacyclic Systems Containing Nitrogen. p.124 ([www.arkat-usa.org](http://www.arkat-usa.org)).
  8. 14<sup>th</sup> French American Chemical Society Symposium, Nantasket Beach Resort Hull, MA. June 10-14, 2012, Kalatozishvili A., Samsoniya Sh., **Chikvaidze I.** Synthesis of Some New Indole Ring Containing Hydrazide-Hydrazones. p.40.
  9. 8-th Eurasian meeting on Heterocyclic Chemistry (EAMHS-2014), 20-24 September, Tbilisi, Georgia, 2014, **I.Chikvaidze**, Sh.Samsonia, N.Narimanidze, N.Targamadze, D. KadzrHrshvili. Synthetic Investigations in the Field of Non-symmetric Bisindoles and Triindoles. Book of Abstracts, p. 84-85.
  10. Notebook 3-rd International Conference on Organic Chemistry „Organic Synthesis-Driving Force of Live Development (ICOC).” 25-28 September, Tbilisi, Georgia, 2014, N.Targamadze, N.Karchava, **I.Chikvaidze**, Sh.Samsonia. Synthesis and Transformations of Some Symmetrical Bis-Pyridazinoindoles. Book of Abstracts, p. 184-186.
  11. International Conference on Organic Chemistry „Organic Synthesis-Driving Force of Live Development” (ICOC). 25-28 September, Tbilisi, Georgia, 2014, G.Khitiri, **I.Chikvaidze**, T.Gabunia, M.Tsurtsunia. Investigation of Konstituent Parafins Precipitated Residual in Oil Pipes. Book of Abstracts, p. 206-207.
  12. International Scientific Conference. „Modern Researches and Prospects of Their Use Chemistry, Chemical engineering and related Fields”. 21-23 September, Tbilisi, 2016. Sh. Samsoniya, **I. Chikvaidze**, N. Chikvaidze, Z. Pachulia, T.Tevzadze.”Regarding some Steps of E. Fisher Reaction Mechanizm”. Book of Abstracts, p.118.