

Academician Shota Samsoniya



Birthed in 1941 in Tbilisi

E-meil shota.samsonia@tsu.ge

Education

1958 – Graduated from Secondary school #60, Tbilisi with a gold medal

1963 - Graduated from Tbilisi State University

1964-1967 - Graduated from the post-graduate studies at Mendeleev Institute of Chemical Technology, Moscow

1967 – Received a degree of candidate in Chemistry at Mendeleev Institute of Chemical Technology, Moscow

1970 – Awarded the title of associate professor at Tbilisi State University

1974-1976 - Doctoral programme at Mendeleev Institute of Chemical Technology, Moscow

1984 - Received a degree of Doctor in Chemistry at Mendeleev Institute of Chemical Technology, Moscow

1985 – Awarded the scientific title of professor at Tbilisi State University

Certificates, Awards, Prizes,

1995 – Expert of Oil products, reg. #1358898;

1997 - Certificate of expert (Food products certification), # 268-20363472-014-112;

1967 – Diploma of Mendeleev Society of USSR

1980 - Petre Melikishvili Scientific Prize of the Tbilisi State University

1986 – Medal of Inventor of USSR

1991 – Ivane Javakhishvili Medall

1988 – Medal of Honor, certificate # 01090

2012 - Petre Melikishvili Academic Prize of the Georgian National Academy of Sciences

2013 – Order of Honor #677, certificate # 07120

Work e experience

1967-1969 – Assistant at the chair of Organic chemistry, Tbilisi State University

1970-1997 – Associate professor at the chair of Organic chemistry, Tbilisi State University

1978-1990 - Head of the department of Organic chemistry, Faculty of Chemistry, Tbilisi State University

1987-2006 – Head of Scientific-Research Laboratory in Organic Synthesis
1990-2006– Professor, Head of the Department of Organic chemistry and Natural Compounds Chemistry, Faculty of Chemistry, Tbilisi State University
2006-2007– Acting Deputy Dean of Faculty of Exact and natural sciences of Tbilisi State University
1995-2010– Science Consultant, National Centre of Intellectual Property of Georgia “Sakpatenti”
From 2006 to this day – Full professor, Faculty of Exact and natural sciences of I.Javakhishvili Tbilisi State University
From 2006 to this day – Chief of subdirection of Organic Chemistry, Faculty of Exact and natural sciences of I.Javakhishvili Tbilisi State University
From 2009 to this day – Director of Institute of Organic Chemistry, Faculty of Exact and natural sciences of I.Javakhishvili Tbilisi State University
From 2012 to this day - Chief of Department of Chemistry, Faculty of Exact and natural sciences of I.Javakhishvili Tbilisi State University

Scientific interests

Organic chemistry (chemistry of nitrogen-containing heterocyclic compounds, indole and adamantan fragment containing compounds); chemistry of natural compounds (alcaloids); chemistry of macromolecules, biologically active polymers among them; photochemistry (bis-spirocompounds); chemistry of peptides; petrochemical synthesis..

Supervisor of doctoral candidates

28 candidates, 3 academic doctors in chemistry, science consultant of 6 doctors of chemistry.

Grants, Projects, contracts

- Grant of Gottenberg University (Meinc, Germany, professors V.Kern and V.Heitz. “ Gel-penetrating chromatography”, 1971-1972;
- Schiller University, Yena (GDR) - 1987, 1988, 1990; Saarbruken Univesity - 1987, 1992, 1993, 1996, 1998, 2003, 2005, 2007, 2009, 2011, 2014 – grants of Academic exchange program (DAAD) between Universities – 1 -3 months;
- Individual grant of International Scientific Society (ISF, J.Soros), 1994;
- Soros professorial grant, 1995-1999;
- Project of German Scientific Society (Deutsche Forschungs Gemeinschaft) "436 GEO 113/3/0-2 R/S" „Photochemistry, spyrocompounds“ in collaboration with Saarbrücken University, 1996-2000;
- Research grant of Greece (in collaboration with Thessaloniki University) „Development methods for obtaining agrochemical safe compounds and determinatiot their probable biological effect with the aim of environmental protection“, 2003-2005;
- Contract with medical corporation ZENTARIS GmbH, Frankfurt, Germany „Screening of heterocyclic compounds“, 1999 – 2005;
- Joint project with Yena Hans Knoell Institute of Natural compounds, Germany, “Synthesis and screening of novel physiologically active compounds”, 1999 –2006;

- Research grant of the Georgian Academy of Sciences (together with I.Kutateladze Institute of Pharmaceutical Chemistry), 2003-2004;
- State grant of the Ministry of Education and Science of Georgia, financing of the third level, #94, 2005;
- Grant of the Georgia National Science Foundation #GNSF/-ST07/4-181, contract #181, 4.03.2008. "Novel potential physiologically active arylindole, pyrrolindole and bisindole systems and their derivatives. Synthesis and study, 2008-2010, 150000GL;
- Grant of the LEPL - Georgia National Science Foundation #GNSF/-ST08/4-413, contract #413, 7.04.2009. "Novel derivatives of biologically active 2-, 5(6)-adamantoxibenzimidazole. Synthesis and study. Duration 12 quarters, 150000GL;
- Conference grant of the Shota Rustaveli National Science Foundation. Contract #GF/21/6-420/11, 28.04.11. The 2nd International conference on Organic Chemistry "Achievements in Chemistry of Heterocyclic compounds", GF/21/6-420/11, Tbilisi, 28.04.11Sept,24-28, 2011, Tbilisi. Financing 14,000 GL;
- Joint project, contract with The United States Army Medical Research Institute of Infectious Diseases (USAMRIID), "Screening of antibacterial activity". Synthesis of substances – TSU, Tbilisi; screening – USAMRIID, Bethesda, USA, from 2010 to the present day;
- State research grant for applying studies of Shota Rustaveli National Science Foundation AR/311/6-420/11, contract 10/23 05.04.2012. "Development of a method for obtaining some pharmpreparations marked by isotope", duration 2 years, 138,000 GL, chief researcher Sh.Samsoniya;
- Travel grant of Rustaveli National Fund, doctoral candidate Akaki Kalatozishvili, 2012, supervisor Sh.Samsoniya;
- Grant of the Shota Rustaveli National Science Foundation – Scientific-research training course for young scientists abroad. Joint scientific research with the Saarland University (supervisors prof. Sh.Samsoniya, prof.U. Kazmaier). Doctoral candidate Tinatin Bukia, grant YS/33/6-420/11, contract # 04/19, 10.11.2011, "Synthesis of adamantan fragment containing biologically active novel peptides via Ugi reaction", 01.12.2011-01.03.2012, 10234 GL;
- Grant of the Shota Rustaveli National Science Foundation – Scientific-research training course for young scientists abroad. Collaboration with the Saarland University (supervisors prof. Sh.Samsoniya, prof.U. Kazmaier). Doctoral candidate Tinatin Bukia, grant YS/33/6-420/12, contract # 04/15 14.12.2012, 9450 GL;
- Doctoral candidate grant of Rustaveli National Fund, candidate Tinatin Bukia (12.2013-12.2014), supervisor Sh.Samsoniya;
- Conference grant of the Shota Rustaveli National Science Foundation. Contract # CF/50/6-420/14. The 3rd International conference on Organic Chemistry (ICOC-2014), Sept,24-28, 2014, Tbilisi. Financing 30,000 GL. Co-Chair of Organizing Committee Sh.Samsoniya.

Membership of Scientific Councils, Commissions, Editorial boards and professional unions

- Academic council of I.Javakhishvili Tbilisi State University (2014)
- Corresponding member of the Georgian National Academy of Sciences (2001-20012)

- Academician of the Georgian National Academy of Sciences (from 20013)
- Chemical society of Georgia
- Member of Academy of Natural Sciences of Georgia, Academician secretary
- New York Academy of Sciences
- Senate of I.Javakhishvili Tbilisi State University (2006-2010)
- Chief of dissertation council at special section of chemistry direction, I.Javakhishvili Tbilisi State University
- Editorial board of the journal „Matsne“ of Georgian National Academy of sciences (Series of Chemistry)
- Issues of TSU „Chemistry“, Supervisory board
- Editorial board of the University science Journal, TSU
- Editorial board of Bulletin of Higher Schools “Chemistry and Chemical Technology” (Ivanovo, Russia)
- Bureau of Department of Chemistry and Chemical Technologies of the Georgian National Academy of Sciences
- Commission of Ecological safety at the Academic council of the Georgian National Academy of Sciences
- Interim special expert commission of petrol chemical problems at the Academic Council of the Georgian National Academy of Sciences;
- Special commission „Chemistry“, Chairman, and Special commission „Pharmacochemistry“, Deputy chairman, Department of Chemistry and Chemical Technologies of the Georgian National Academy of Sciences
- Scientific council of Ministry of Education and Sciences of Georgia (2014)
- Various commissions at Faculty of Exact and natural sciences of I.Javakhishvili Tbilisi State University.

Works

625 publications in chemistry, among them: 30 books, monographs, handbooks; 18 patents and author certificates on invention;

Some scientific publications of last years

1. **Samsoniya Sh.A.**, Kadzhrishvili D.O., Chikvaidze I.Sh. Synthesis and Antimicrobial Activity of some Pyrroloindole Derivatives. *Pharmaceutical Chemistry Journal*, 2011, v.45, 1, pp.22-25.
2. **Samsoniya Sh.A.**, Trapaidze M.V., Nikoleishvili N.N., Japaridze K.G., Maisuradze J.P. and Kazmaier U. New Condensed Indoline Bis-spyropyranes. *International Journal - Chemistry of Heterocyclic Compounds*, 2011, v. 47, 9, 1098-1104.
3. Doroshenko T., **Samsoniya Sh.**, Chikvaidze I. Bisindole Derivatives. Synthesis of bis(1H-Indol-5-yl)methane new derivatives. Lambert Academic Publishing, Saarbruecken. Printed in the U.S.A., 2011.
4. Chikvaidze I.S., Barbakadze N.N., **Samsoniya Sh.A.** Some new derivatives of 5-aryl-, 2,5-diaryl- and 2-ethoxycarbonyl-5-aryl-indoles. *Arkivoc (USA, Florida)*, 2012, (Vi), pp.143-154.
5. **Samsoniya Sh.A.**, Trapaidze M.V., Nikoleishvili N.N. Bisindoles. 43. Dipyrroloxinoxalines. 2. Synthesis of bis-analogs of „Fischer aldehyde” at the Vilsmeier reaction. *International Journal Chemistry of Heterocyclic Compounds*, 2013, #4, p.580-

- 584.
6. Davit S. Zurabishvili, Tinatin J. Bukia, Medea O. Lomidze, Marina N. Trapaidze, Elizbar N. Elizbarashvili, **Shota A. Samsoniya**, Tamara V. Doroshenko, Uli Kazmaier. Preparation of 2-(1-adamantyl)-1H-benzimidazole and novel derivatives thereof. *International Journal-Chemistry of Heterocyclic Compounds*, 2015, v.51, 2, pp.139-145.
 7. Kereselidze K., **Samsonia S.**, Tugushi d., Caganava R. Stored Chemical Compositions in "The Medicalo Book". *Proceedings of the Georgian Academy of Sciences, chemical series*, 2016, v.42, 2, pp.231-235.
 8. **Samsoniya Sh.**, Trapaidze M., Shonia T., Kazmaier Uli. Hexamethyldimethylenindolino[4,5-e]indoline. Reaction with Nitrous Acid. *Bulletin of the Georgian national Academy of sciences*, 2016, v.10, 2, pp. 91-97.
 9. Kazmaier Uli, **Samsoniya Shota**, Katsacze Elene. Ugi with Piv-Aldehyde and S-4-Methoxyphenyl Ethylamine as Amine. *Bulletin of the Georgian national Academy of sciences*, 2016, v.10, 3, pp. 75-78.
 10. **Samsoniya Shota**, Dali Kajrishvili Dali, Targamadze Nana,, Narimanidze Naira, Chikvaidze Ioseb. Synthesis of some Novel Derivatives of Indole and Pyrroloindole. *Bulletin of the Georgian national Academy of sciences*, 2016, vol. 10, №4, pp.50-55.
 11. Zurabishvili David, Lomidze Medea, Gogolashvili Ivane, Trapaidze Marina, **Samsoniya Shota**, Kazmaier Uli. Synthesis of Derivatives of Acylaminoadamantane Carboxylic Acids and some Transformations. *Bulletin of the Georgian national Academy of sciences*, 2017, vol., 11, №1, pp. 61-66.