

Curriculum Vitae

Name	Tinatin
Surname	Sadunishvili
Date and place of birth	22 December, 1952, Tbilisi
Address:	Work 10 th km., David Aghmashenebeli Avenue
Higher education:	
1970-1975	Faculty of Biology, Tbilisi State University
Scientific degree and title:	
1980	Candidate of Biological Sciences
1995	Doctor of Biological Sciences
2009	Corresponding Member of the Georgian National Academy of Sciences
Positions held:	
1974-1978	Senior Laboratory Assistant, S.Durmishidze Institute of Biochemistry and Biotechnology (at the time: Institute of Plant Biochemistry, Georgian Academy of Sciences)
1978-1985	Junior Research Worker
1986-1994	Senior Research Worker
1994-1996	Leading Research Worker
1994-2004	Professor of the Biotechnology Chair, Georgian Technical University
1996-2005	Chief Research Worker
2005	to the present day – Head of Laboratory
Sphere of scientific interests:	nitrogen uptake and metabolism in plants; primary assimilation of ammonium; physico-chemical properties of nitrogen and enzymes of energy exchange, kinetics and regulation
Number of published works	over 100, in international and national journals
List of principal scientific works:	<ol style="list-style-type: none">1. Sadunishvili, T.A., Nutsubidze, N.N. Multiple molecular forms of glutamate dehydrogenase in kidney bean. <i>Prikl. Biokhim. Mikrobiol.</i>, 1986, 22, 337-340.2. Sadunishvili T.A., Gvarliani N.Z., Nutsubidze N.N. Primary assimilation of ammonia in kidney bean leaves. <i>Biochemistry</i> (Moscow). 1989, 3, 397-401.3. Sadunishvili, T., Gvarliani, M. Nutsubidze, N., Kvesitadze, G. Enzymatic mechanism of ammonia excess detoxication in kidney bean. <i>Fresenius Environmental Bulletin</i>. 1993, 2, 534-539.4. Kvesitadze, G.I., Kokonashvili, G.N., Sadunishvili, T.A. Enzymes of nitrogen and energy metabolism from the liver of spiny dogfish and in the preparation Katrex. <i>Applied Biochem. Microbiol.</i> 1993, 29, 1, 102-106.5. Sadunishvili, T., Gvarliani N., Nutsubidze, N., Kvesitadze, G. Effect of methionine sulfoximine on nitrogen metabolism and externally supplied ammonium assimilation in kidney bean. <i>Ecotoxicol. Environ. Safety</i>. 1996, 34, 70-75.6. Sadunishvili T. Effects of light, nitrate and ammonium on bean ferredoxin- and NADH-dependent glutamate synthases. <i>Applied Biochem. Microbiol.</i> 1996, 32, 2, 231-233.7. Buadze, O., Sadunishvili, T., Kvesitadze, G. The effect of 1,2-benzanthracene and 3,4-benzpyrene on the ultrastructure of maize cells. <i>International Biodeterioration and Biodegradation</i>. 1998, 41, 119-1258. Zaalishvili, G., Sadunishvili, T., Scalla, R. Laurent, F. and Kvesitadze, G. Electron Microscopic Investigation of Nitrobenzene Distribution and Effect on Plant Root Tip Cells Ultrastructure. <i>Ecotoxicol. Environ. Safety</i>, 2002, 52, 3, 190-197.

9. Betsiashvili M., Sadunishvili T., Gigolashvili G., Nutsbidze N., Kvesitadze G. Valuable food protein preparation from soybean. *Advances in Food Sciences*, 2002, 24, 1, 20-23.
10. Omiadze N., Parlar H., Leupold G., Mchedlishvili N., Gulua L. Akhvlediani K., Abutidze M., Sadunishvili T., Rodriguez-Lopez J.N., Kvesitadze G. Inhibition of apple phenoloxidase and peroxidase by phenolics of tea leaves. *Advances in Food Sciences*. 2004, 26, 1, 26-31.
11. Alyabyev A., Gordon L., Loseva N., Rachimova G., Tribunskih V., Estrina R., Sadunishvili T., Gulua L., Mchedlishvili N., Rodriguez-Lopez J.N. A natural inhibitor isolated from tea leaves and its effect on energy processes in model plants. *Thermochimica Acta* 2004, 422,109-113.
12. Mchedlishvili N., Omiadze N., Gulua L., Abutidze M., Sadunishvili T., Zamtaradze R, Kvesitadze G., & Bendeliani E. Thermostability of Plant Phenoloxidase and Peroxidase Determining the Technology of their Use in Food Industry. *Appl. Biochem. Microbiol* 2005, 41, 2, 165-170.
13. Elly P.H. Best , G.Kvesitadze, G. Khatisashvili, T. Sadunishvili. Plant processes important for the transformation and degradation of explosives contaminants. *Zeitschrift für Naturforschung 60c*, 340-348, 2005.
14. Navaro Peran E., Cabezas-Herrera J., Hiner A.N.P., Sadunishvili T. Garcia-Canovas F., Rodrigues-Lopez J.N. Kinetics of the inhibition of bovine liver dihydrofolate reductase by tea catechins: origin of slow-binding inhibition and ph studies. *Biochemistry*, 44 (20), 7512 -7525, 2005.
15. Chrikishvili D., Sadunishvili T., Zaalishvili G. Benzoic acid conjugation and the final fate of conjugates in higher plants. *Ecotoxicol. Environ. Safety*, 2006, 64, 3, 390-399.

Monographs:

1. Квеситадзе Г.И., Хатисашвили Г.А., Садунишвили Т.А. Евстигнеева З.Г. *Метаболизм Антропогенных Токсикантов в Высших Растениях*. Наука, 2005. 200с. ISBN 5-02-033440-5.
2. Kvesitadze, G., Khatisashvili, G., Sadunishvili, T, Ramsden, J.J. *Biochemical Mechanisms of Detoxification in Higher Plants. Basis of Phytoremediation*. 262p. Springer, 2006.
3. Papunidze, I., Khatisashvili, G., Sadunishvili, T. Plant for a Healthy Environment. Adjara, Batumi, 2005, 229 p.

Awards, Prizes:

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