

Faculty Vitae

1. Name - **Elene Davitashvili**
2. Education – **Doctor of Biology, Associate Professor, Division of Biochemistry, Department of Biology Faculty of Exact and Natural Sciences, Iv. Javakhishvili Tbilisi State University**
3. Academic experience –from **1995 to day**
 - 1975-1983 – Iv. Javakhishvili Tbilisi State University, Biotechnog.Labor N2, Senior lab.worker, Science researcher, Sen.sci.researcher
 - 1983- 1985 - Iv. Javakhishvili Tbilisi State University, Biotechnog.Labor N1, Sen.sci.res.
 - 1988-1999 - Iv. Javakhishvili Tbilisi State University, Department of biochemistry and biotechnology “Biolog. active substances laboratory” Sen.sci.res.
 - 1999-2006 - Iv.Javakhishvili Tbilisi State University, Department of biochemistry and biotechnology, Professore
 - 2006-2007 - Iv.Javakhishvili Tbilisi State University, Faculty of Exact and Nature Sciences, Biology depart.phys-chem.biol., Invited Lecture
 - 2007-2008 - Iv.Javakhishvili Tbilisi State University, Faculty of Exact and Nature Sciences, Biology depart.phys-chem.biol., sen.lab.worker
 - 2008-2016 - Iv.Javakhishvili Tbilisi State University, Faculty of Exact and Nature Sciences, Biology depart. Biochemistry, Assist Profesore
 - 2016 - Iv.Javakhishvili Tbilisi State University, Faculty of Exact and Nature Sciences, Biology depart. Biochemistry, Associate Professor
4. Non-academic experience –
 - 1985-1988 – M.Asatiani Psychiatric Science Inst., Biophys. and Biochem.Lab. of Chromatography Center, Labor., Sen.sci.res
5. Certifications or professional registrations (if any) -
6. Current membership in professional organizations - **FEBS**
7. Honors and awards – **Acadec. Petre Kometiani award, 2002**
8. Briefly list the most important publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation


1. N. Kvitsinadze, **E. Davitashvili**, I. Megrelishvili, K.Chubinidze, N.Koshoridze, M. Gogvadze, O.Tsintsadze, G.Karazanashvili, R.Solomonias. The Role of Microsomal Galactose-Specific Lectins from Prostate Tissues in Gland Peroxidation. International Journal of Biochemistry and Biophysics 4(4): 37-44, **2016** <http://www.hrpub.org> DOI: 10.13189/ijbb.2016.040401

2.E. Davitashvili, E. Kapanadze, E. Kachlishvili, N. Mikiashvili, Vl. Elisashvili Isolation and Characterization of Lectins Formed by *Cerrena unicolor* (Higher Basidiomycetes) in Solid-State Fermentation of *Sorghum* and Wheat Straw. Int J MedMushrooms.**2015**, 17, i5 (20): **427-434** .DOI: 10.1615/**Impact factor: 0.93**, <http://www.dl.begellhouse.com>

3.Chubinidze K, Partsvania B, Sulaberidze T, Khuskivadze A, **Davitashvili E**, Koshoridze N. Luminescence enhancement in nanocomposite consisting of polyvinyl alcohol incorporated gold

nanoparticles and Nile blue 690 perchlorate". *Applied Optics* 2014. 1;53(31):7177-81. doi: 10.1364/AO.53.007177.. **Impact factor: 1.784**

4.**Davitashvili E**, Kapanadze E,Kachishvili E, Metreveli E.,Elisashvili V. Lectin Activity of Species of Genus *Cerrena* S.F. Gray (Aphyllphoromycetidae) in Submerged Fermentation of Lignocellulosic Materials. *International Journal of Medicinal Mushrooms*, 2011. 13(2): 159–166 1521-1437/1 © Begell House, Inc 159-166. **Impact factor: 0.661**

5.**Davitashvili E**, Kapanadze E,Kachishvili E, Metreveli E.,Elisashvili V. Comparative Study of the Hemagglutinating Activity of Lectins isolated from Different Developmental Stages of *Pleurotus ostreatus* (Jacq.: Fr.) Kumm. *Internat. J. of Medicinal Mushroom. (Begell House)*. 2010  12(Is.1):43-50. Impact factor: 0.661

6.**E.Davitashvili**¹, N.Kvitsinadze¹, I.Megrelishvili¹, G.Karazanashvili², R.Solomonias³N. Aleksidze¹ . Influence of beta-galactose-specific mitochondrial lectins from prostate hyperplastic tissue on mitochondrial properties. *Scand.J.Clin and Lab Invest*. 2010, 70(1):33-39(7) **Impact Factor 1.363**

7.N.Mikiashvili, ElisashviliV, M.Vorku, E. Davitashvil, O.Isikhuemhen. Purification and Characterization of a Lectin Isolated from the Submerged Cultivated Mycelium of Grey Polypore *Cerrena unicolor* (Bull.) Murrill (Aphyllphoromycetidae). *Internat. J. of Medicinal Mushrooms*. 2009 , v.11, Is. 1.51-68. Impact factor: 0.661

8.**Davitashvili E.**, Kapanadze E.,Kachishvili E., Khardziani T.,Elisashvili V. Basidiomycetes Lectin activity evaluation in submerged and solid-state fermentation of agro-industrial residues. *Internat. J. of Medicinal Mushroom*. 2008, v.10, Is. 2.80,171-179. (Begell House). **Impact Factor 1.703**

3. Briefly list the most recent professional development activities (workshops/seminars/conferences attended, technical projects, etc.

- 2013, 8-9 october, Workshop on Molecular Life Sciences Education (Organised by FEBS in cooperation with Association of Georgian Biochemists (AGB))
- 2009, 4-9 july. 34thFEBS Congress, Life's Molecular Interactions, Correlation between the increase of lectin activity and complication of benign prostate hyperplasia YSF-52, p.374, , Prague, Czech Republic
- 2009, 1 may. Intern.Confer. of Morphologists in Memory of G.Tumanishvili "From molecule to organism" 27-28..Tbilisi, Georgia. E.Davitashvili¹,N.Giorgobiani²,E. Kapanadze¹, N. Kvitsinadze³ THE EVALUATION OF PERMEABILITY OF LECTINES IN THE CELLS OF RAT'S ORGANS
- 2008, 23-25 october. Europ.Urology Assot. VIII Central Europ.Meeting, Influence of mitochondrial Gal-lectin from prostate BPH complicated tissues on peroxidation processes , , Wars awa, Poland

Projects:

2006-2009 Higher Education Grants of Georgia Basidiomycetes as the biological factories for bioconversion of agro-indust. wastes into value-added products (enzymes, polysaccharides, lectins, any others) GNSF/ST 06/6-092

2009-2012  - GNSF №08/2-373

4. Citation for most recent publication

Davitashvili E, Kapanadze E, Kachishvili E, Metreveli E., Elisashvili V. Lectin Activity of Species of Genus *Cerrena* S.F. Gray (Aphyllphoromycetidae) in Submerged Fermentation of Lignocellulosic Materials. *International Journal of Medicinal Mushrooms*, 2011. 13(2): 159–166 1521-1437/1 © Begell House, Inc 159-166. **Impact factor: 0.661**

5. Citation for most impactful publication –

6. E.Davitashvili¹, N.Kvitsinadze¹, I.Megrelishvili¹, G.Karazanashvili², R.Solomonias³N. Aleksidze¹ . Influence of beta-galactose-specific mitochondrial lectins from prostate hyperplasic tissue on mitochondrial properties. *Scand.J.Clin and Lab Invest.* 2010, 70(1):33-39(7) **Impact Factor 1.363**

7. List of courses taught in 2013-18

- Lectures **Glycobiology, Modules of Medical Biochemistry, Ecological Biochemistry, Methods of Clinical Biochemistry,**
- Seminars
- Practicals
- Lab

8. Advising students, 2015-17

- Number of undergraduate students - 4
- Number of graduate students -3
- Number of PhD students - 2