

### **Active oxygen intermediates in the degradation of hematoporphyrin derivative in tumor cells subjected to photodynamic therapy**

**Tšekulajeva, Ludmilla; Tšekulajev, Vladimir; Ševtšuk, Igor** Journal of photochemistry and photobiology B : biology 2008 / p. 94-107 : ill <https://www.sciencedirect.com/science/article/pii/S1011134408001474>

### **Adaptation of striated muscles to Wolframin deficiency in mice : alterations in cellular bioenergetics**

Tepp, Kersti; Puurand, Marju; Timohhina, Natalja; **Aid-Vanakova, Jekaterina**; Reile, Indrek; Ševtšuk, Igor; Tšekulajev, Vladimir; Eimre, Margus; Peet, Nadežda; Kadaja, Lumme; Paju, Kalju; Käämbre, Tuuli Biochimica et biophysica acta 2020 / art. 129523 <https://doi.org/10.1016/j.bbagen.2020.129523>

### **Analysis of energy fluxes in colorectal cancer saponin skinned tissues and Caco-2 cells**

Ševtšuk, Igor; Kaldma, Andrus; Tšekulajev, Vladimir; Klepinin, Aleksandr; **Õunpuu, Ljudmila** MiP 2015 : 11th Conference on Mitochondrial Physiology : Lucni Bouda, Giant Mountains National Park, Czech Republic, 7-11 September 2015 2015 / p. 35-36 : ill [http://www.bioblast.at/index.php/Shevchuk\\_2015\\_Abstract\\_MiP2015](http://www.bioblast.at/index.php/Shevchuk_2015_Abstract_MiP2015)

### **Association of CD2 with fibrinogen in human plasma : depletion of the soluble E-receptor in blood clotting**

Smorodin, Eugeniy P.; Kurtenkov, O.A.; **Ševtšuk, Igor** Journal of immunoassay and immunochemistry 2007 / 4, p. 359-369 <https://www.tandfonline.com/doi/abs/10.1080/15321810701603708>

### **The changes in the optical properties of Ehrlich carcinoma cells treated with hematoporphyrin derivative and light**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 24 [https://www.ester.ee/record=b1059312\\*est](https://www.ester.ee/record=b1059312*est)

### **Colorectal polyps increase the glycolytic activity**

**Rebane-Klemm, Egle; Reinsalu, Leenu**; Puurand, Marju; Ševtšuk, Igor; Bogovskaja, Jelena; Suurmaa, Külliki; Valvere, Vahur; Moreno-Sanchez, Rafael; Käämbre, Tuuli Frontiers in oncology 2023 / art. 1171887, 11 p. : ill <https://doi.org/10.3389/fonc.2023.1171887> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The complexity of mitochondrial outer membrane permeability and VDAC regulation by associated proteins**

Klepinin, Aleksandr; Õunpuu, Ljudmila; Mädo, Kati; **Truu, Laura**; Tšekulajev, Vladimir; Puurand, Marju; Ševtšuk, Igor; Tepp, Kersti; Planken, Anu; Käämbre, Tuuli Journal of bioenergetics and biomembranes 2018 / p. 339-354 : ill <https://doi.org/10.1007/s10863-018-9765-9>

### **Eesti väliskeskkonna saastatusest nitroareenidega**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 147

### **Effects of light exposure on the uptake and destruction of hematoporphyrin derivative in Ehrlich carcinoma cell suspension**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 22

### **Energy metabolic plasticity of colorectal cancer cells as a determinant of tumor growth and metastasis**

**Reinsalu, Leenu**; Puurand, Marju; Tšekulajev, Vladimir; **Miller, Sten**; Ševtšuk, Igor; Tepp, Kersti; **Rebane-Klemm, Egle**; Timohhina, Natalja; Terasmaa, Anton; Käämbre, Tuuli Frontiers in Oncology 2021 / Art. nr. 698951 <https://doi.org/10.3389/fonc.2021.698951> [Journal metrics at Journal](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Feoforbiid-a kompleks diaminobutaan-polüpropüleenimiinse dendrimeeriga - uus fotodünaamilise teraapia fotosensibilisaator**

**Ševtšuk, Igor; Tšekulajeva, Ludmilla; Tšekulajev, Vladimir** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 109-110

### **Hematoporfüriini ja albumiini fotoindutseeritud muutuste uurimine vee keskkonnas**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 145 [https://www.ester.ee/record=b1059313\\*est](https://www.ester.ee/record=b1059313*est)

### **Hematoporfüriini ja valguse mõju Ehrlichi kartsinoomi rakkude optilistele omadustele**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 146 [https://www.ester.ee/record=b1059313\\*est](https://www.ester.ee/record=b1059313*est)

### **Hydrogen peroxide, superoxide, and hydroxyl radicals are involved in the phototoxic action of hematoporphyrin derivative against tumor cells**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir; Ilmarinen, Kaja** Journal of environmental pathology, toxicology, and oncology 2006 / p. 51-77 : ill <https://pubmed.ncbi.nlm.nih.gov/16566710/>

### **Influence of heating on the activity of xanthine oxidase in tumor cells subjected to the phototoxic action of**

#### **hematoporphyrin derivative**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir;** Oginskaya, E. Neoplasma 2007 / p. 229-234

[https://www.academia.edu/49855199/Influence\\_of\\_heating\\_on\\_the\\_activity\\_of\\_xanthine\\_oxidase\\_in\\_tumor\\_cells\\_subjected\\_to\\_the\\_phototoxic\\_action\\_of\\_hematoporphyrin\\_derivative](https://www.academia.edu/49855199/Influence_of_heating_on_the_activity_of_xanthine_oxidase_in_tumor_cells_subjected_to_the_phototoxic_action_of_hematoporphyrin_derivative)

#### **Influence of pH and glucose administration on the phototoxicity of chlorine-e6 towards Ehrlich carcinoma cells**

**Ševtšuk, Igor; Tšekulajev, Vladimir; Tšekulajeva, Ludmilla** Experimental oncology 2002 / p. 135-141 : ill

[https://www.researchgate.net/publication/233920567\\_INFLUENCE\\_OF\\_pH\\_AND\\_GLUCOSE\\_ADMINISTRATION\\_ON\\_THE\\_PHOTOTOXICITY\\_OF\\_CHLORIN-e6\\_TOWARDS\\_EHRlich\\_CARCINOMA\\_CELLS](https://www.researchgate.net/publication/233920567_INFLUENCE_OF_pH_AND_GLUCOSE_ADMINISTRATION_ON_THE_PHOTOTOXICITY_OF_CHLORIN-e6_TOWARDS_EHRlich_CARCINOMA_CELLS)

#### **Influence of temperature on the efficiency of photodestruction of Ehrlich ascites carcinoma cells sensitized by**

#### **hematoporphyrin derivative**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** Experimental oncology 2004 / p. 125-139

<https://pubmed.ncbi.nlm.nih.gov/15273663/>

#### **Investigation of photoinduced alterations of hematoporphyrin derivative and serum albumin in aqueous media**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 23

#### **The isolation and characterization of human natural [alpha]-gal-specific IgG antibodies applicable to the detection of [alpha]-gal-glycosphingolipids**

**Smorodin, Eugeniy P.; Kurtenkov, O.A.; Ševtšuk, Igor; Tanner, R.H.** Journal of immunoassay and immunochemistry 2005 / p. 145-156 <https://pubmed.ncbi.nlm.nih.gov/15794123/>

#### **Kasvajarakkude pinna morfoloogilised muutused hematoporfüriini derivaadi (HPD) fotodünaamilisel toimel on seotud ATP alanemisega ja tsütoskeleti proteiinide sulfhüdriilsete rühmade oksüdatsiooniga**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 146-147 : ill [https://www.ester.ee/record=b1761049\\*est](https://www.ester.ee/record=b1761049*est)

#### **Kinetic studies on the mechanism of haematoporphyrin derivative photobleaching**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir; Jäälaid, Raissa** Proceedings of the Estonian Academy of Sciences. Chemistry 2002 / p. 49-70 : ill [https://artiklid.elnet.ee/record=b1009280\\*est](https://artiklid.elnet.ee/record=b1009280*est)

#### **Lonidamiini fotodünaamiliste ja antineoplastiliste omaduste uurimine**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla; Kahru, Anne** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 139-141

[https://www.ester.ee/record=b1067568\\*est](https://www.ester.ee/record=b1067568*est)

#### **Mitochondrial respiration in human colorectal and breast cancer clinical material is regulated differently**

**Koit, Andre; Ševtšuk, Igor; Ōunpuu, Ljudmila; Klepinin, Aleksandr; Tšekulajev, Vladimir; Timohhina, Natalja; Tepp, Kersti; Puurand, Marju; Truu, Laura; Heck, Karoliina; Valvere, Vahur; Guzun, Rita; Käämbre, Tuuli** Oxidative medicine and cellular longevity 2017 / art. 1372640, 16 p. : ill <https://doi.org/10.1155/2017/1372640>

#### **Mitochondrial respiration in KRAS and BRAF mutated colorectal tumors and polyps**

**Rebane-Klemm, Egle; Truu, Laura; Reinsalu, Leenu; Puurand, Marju; Ševtšuk, Igor; Tšekulajev, Vladimir; Timohhina, Natalja; Tepp, Kersti; Bogovskaja, Jelena; Afanasjev, Vladimir; Suurmaa, Külliki; Valvere, Vahur; Käämbre, Tuuli** Cancers 2020 / art. 815 <https://doi.org/10.3390/cancers12040815> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **On the contamination of Estonian environment by nitroarenes**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 25 [https://www.ester.ee/record=b1059312\\*est](https://www.ester.ee/record=b1059312*est)

#### **On the mechanism of cellular death under photoexcitation of haematoporphyrin derivate**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** Proceedings of the Estonian Academy of Sciences. Biology. Ecology 2003 / p. 55-72 : ill [https://artiklid.elnet.ee/record=b1011901\\*est](https://artiklid.elnet.ee/record=b1011901*est)

#### **On the mechanism of cytotoxic action of UVA radiation towards mammalian cells**

**Ševtšuk, Igor; Tšekulajev, Vladimir; Tšekulajeva, Ludmilla; Kahru, Anne** Joint Conference of Scandinavian Society of Cell Toxicology and Estonian Society of Toxicology : (SSCT & ETS 98) : Tallinn, October 23-26, 1998 : program and abstracts 1998 / l. 83

#### **On the mechanism of reactive oxygen species generation in tumour cells subjected to the phototoxic action of haematoporphyrin derivative : effect of heating**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir; Oginskaja, Jelena** Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / p. 14-37 : ill [https://artiklid.elnet.ee/record=b2367405\\*est](https://artiklid.elnet.ee/record=b2367405*est)

#### **On the mechanism of the phototoxic action of haematoporphyrin derivative towards tumour cells**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** Proceedings of the Estonian Academy of Sciences. Biology. Ecology

2005 / p. 83-119 : ill [https://artiklid.elnet.ee/record=b2345867\\*est](https://artiklid.elnet.ee/record=b2345867*est)

**Photodynamic therapy of tumours with chlorin-e6 is pH dependent**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** Proceedings of the Estonian Academy of Sciences. Biology. Ecology 2003 / p. 40-54 : ill [https://artiklid.elnet.ee/record=b1011900\\*est](https://artiklid.elnet.ee/record=b1011900*est)

**Photosensitized inactivation of tumor cells by porphyrins and chlorins**

**Tšekulajeva, Ludmilla** 2006 <https://digi.lib.ttu.ee/i/?96> [https://www.ester.ee/record=b2146047\\*est](https://www.ester.ee/record=b2146047*est)

**Porfüriinid ja bilirubiin pärsivad Alzheimeri amüloid beta peptiidi agregatsiooni**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir; Palumaa, Peep** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 165-166 [https://www.ester.ee/record=b2314480\\*est](https://www.ester.ee/record=b2314480*est)

**Quantitative characterization of respiratory parameters of human colorectal and breast cancer clinical material**

Ševtšuk, Igor; Koit, Andre; Kaldma, Andrus; Tšekulajev, Vladimir; Klepinin, Aleksandr; **Õunpuu, Ljudmila** MiP 2015 : 11th Conference on Mitochondrial Physiology : Lucni Bouda, Giant Mountains National Park, Czech Republic, 7-11 September 2015 2015 / p. 28-29 : ill [http://www.bioblast.at/index.php/Kaambre\\_2015\\_Abstract\\_MiP2015](http://www.bioblast.at/index.php/Kaambre_2015_Abstract_MiP2015)

**The role of lipid peroxidation and protein degradation in the photodestruction of Ehrlich ascites carcinoma cells sensitized by hematoporphyrin derivative**

**Ševtšuk, Igor; Tšekulajev, Vladimir; Tšekulajeva, Ludmilla** Experimental oncology 2002 / p. 216-224

**Temperatuuri mõju hematoporfüriini derivaadi (HPD) fototoksilisusele kasvajakakkudes**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 148-149 : ill

**Valguse mõju hematoporfüriini absorptsioonile ja destruktsioonile Ehrlichi kartsinoomi rakkude suspensioonis**

**Tšekulajev, Vladimir; Ševtšuk, Igor; Tšekulajeva, Ludmilla** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 144 [https://www.ester.ee/record=b1059313\\*est](https://www.ester.ee/record=b1059313*est)

**Vesinikperoksiidi, superoksiidi ja hüdroksüülradikaalide osalus hematoporfüriini derivaadi (HPD) fototoksilises toimes kasvajakakkudele**

**Tšekulajeva, Ludmilla; Ševtšuk, Igor; Tšekulajev, Vladimir** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 117-118 : ill [https://www.ester.ee/record=b2096462\\*est](https://www.ester.ee/record=b2096462*est)

**Wolframin deficiency is accompanied with metabolic inflexibility in rat striated muscles**

Tepp, Kersti; **Aid-Vanakova, Jekaterina**; Puurand, Marju; Timohhina, Natalja; **Reinsalu, Leenu**; Tein, Karin; Plaas, Mario; Ševtšuk, Igor; Terasmaa, Anton; Käämbre, Tuuli Biochemistry and Biophysics Reports 2022 / art. 101250 <https://doi.org/10.1016/j.bbrep.2022.101250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)