

**The absence of active creatine kinase system influences cardiac calcium handling**  
**Laasmaa, Martin; Branovets, Jelena; Karro, Niina; Birkedal Nielsen, Rikke; Vendelin, Marko** Biophysical journal 2019 / Poster 484 ; p. 96a <https://doi.org/10.1016/j.bpj.2018.11.558>

#### **Adenylate kinase and metabolic signaling in cancer cells**

Klepinin, Aleksandr; Zhang, Song; Klepinina, Ljudmila; Rebane-Klemm, Egle; Terzic, Andre; Käämbre, Tuuli; Dzeja, Petras Frontiers in oncology 2020 / art. 660, 9 p <https://doi.org/10.3389/fonc.2020.00660>

**Analysis of ADP compartmentation in cardiomyocytes and its role in protection against mitochondrial permeability transition pore opening = ADP kompartmentatsiooni analüüs südamelihasrakkudes ja selle roll mitokondriaalse suure läbitavusega poori avanemise eest kaitsmisel**

**Karro, Niina** 2015 <https://digi.lib.ttu.ee/i/?3423> [https://www.ester.ee/record=b4500337\\*est](https://www.ester.ee/record=b4500337*est)

**Comparative analysis of some aspects of mitochondrial metabolism in differentiated and undifferentiated neuroblastoma cells**

Klepinin, Aleksandr; **Kaldma, Andrus; Koit, Andre** Journal of bioenergetics and biomembranes 2014 / p. 17-31 : ill

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

Klepinin, Aleksandr; Ōunpuu, 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 <http://doi.org/10.1007/s10863-018-9765-9>

**Different kinetics of the regulation of respiration in permeabilized cardiomyocytes and in HL-1 cardiac cells : importance of cell structure/organization for respiration regulation**

**Anmann, Tiia; Guzun, Rita; Beraud, Nathalie; Pelloux, Sophie; Kuznetsov, Andrey V.; Kogerman, Lembi; Käämbre, Tuuli; Sikk, Peeter; Paju, Kalju; Peet, Nadja; Seppet, Enn; Ojeda, Carlos; Tourneur, Yves; Saks, Valdur** Biochimica et biophysica acta 2006 / 12, p. 1597-1606 : ill <https://www.sciencedirect.com/science/article/pii/S0005272806003070>

#### **Energia, elu ja tervis : süsteembioloogiast, bioenergeetikast ja biomeditsiinist**

Käämbre, Tuuli; **Varikmaa, Minna** Horisont 2013 / lk. 16-23 : ill

#### **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](#)

#### **Formation of [4Fe-4S] clusters in the mitochondrial iron-sulfur cluster assembly machinery**

Brancaccio, Diego; **Zovo, Kairit; Palumaa, Peep** Journal of the American Chemical Society 2014 / p. 16240-16250 : ill

#### **Integrated and organized cellular bioenergetic systems in heart and brain**

Anmann, Tiia 2007 [http://www.ester.ee/record=b2281020\\*est](http://www.ester.ee/record=b2281020*est)

**Interplay between creatine kinase and adenylate kinase networks in health and disease = Kreatiinkinaasi ja adenülatkinaasi energiaülekande võrgustike vaheline koosmõju normis ja patoloogias**

Klepinin, Aleksandr 2018 <https://digi.lib.ttu.ee/i/?9963>

**Metabolic remodeling of human colorectal cancer : alterations in energy fluxes = Soolevähi metaboolne remodelleerimine : muutused energiavoogudes**

**Kaldma, Andrus** 2017 <https://digi.lib.ttu.ee/i/?7372>

**Metallothionein 2A affects the cell respiration by suppressing the expression of mitochondrial protein cytochrome c oxidase subunit II**

**Bragina, Olga; Gurjanova, Karina; Krištal, Jekaterina; Kulp, Maria; Karro, Niina; Tõugu, Vello; Palumaa, Peep** Journal of bioenergetics and biomembranes 2015 / p. 209-216 : ill <http://dx.doi.org/10.1007/s10863-015-9609-9>

#### **Mitochondria–cytoskeleton interaction : distribution of β-tubulins in cardiomyocytes and HL-1 cells**

Guzun, Rita; Karu-Varikmaa, Minna; Gonzalez-Granillo, Marcela; Kuznetsov, Andrey V.; Michel, Laurianne; Cottet-Rousselle, Cecile; **Saaremäe, Merle; Käämbre, Tuuli; Metsis, Madis;** Grimm, Michael; Auffray, Charles; Saks, Valdur Biochimica et biophysica acta 2011 / p. 458-469 : ill

#### **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 <http://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, Külli; 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

## Molecular dynamics simulations of creatine kinase and adenine nucleotide translocase in mitochondrial membrane patch

Karo, Jaanus; Peterson, Pearu; Vendelin, Marko The journal of biological chemistry 2012 / p. 7467-7476 : ill  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3293576/>

## Molecular mechanism of mitoquinol mesylate in mitigating the progression of hepatocellular carcinoma - in silico and in vivo studies

Sulaimon, Lateef Adegboyega; Adisa, Rahmat Adetutu; Samuel, Titilola Aderonke; Joel, Ireoluwa Yinka; Ayankojo, Akinrinade George; Abdulkareem, Fatimah Biade; Olaniyi, Timothy Olajire Journal of Cellular Biochemistry 2021 / p. 1157-1172  
<https://doi.org/10.1002/jcb.29937> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## Molecular system bioenergetics of cardiac cells : quantitative analysis of structure-function relationship

Tepp, Kersti 2011

## Number of open mitochondrial voltage-dependent anion channels and intracellular diffusion coefficient in heart muscle

Simson, Päivo; Jepihhina, Natalja; Laasmaa, Martin; Branovets, Jelena; Peterson, Pearu; Birkedal Nielsen, Rikke; Vendelin, Marko Biophysical journal 2016 / p. 475a <https://doi.org/10.1016/j.bpj.2015.11.2540>

## Pharmacological significance of MitoQ in ameliorating mitochondria-related diseases

Sulaimon, Lateef Adegboyega; Afolabi, Lukman Olalekan; Adisa, Rahmat Adetutu; Ayankojo, Akinrinade George; Afolabi, Mariam Olanrewaju; Adewolu, Abiodun Mohammed; Wan, Xiaochun Advances in Redox Research 2022 / art. 100037  
<https://doi.org/10.1016/j.arres.2022.100037>

## Restricted ADP movement in cardiomyocytes : cytosolic diffusion obstacles are complemented with a small number of open mitochondrial voltage-dependent anion channels

Simson, Päivo; Jepihhina, Natalja; Laasmaa, Martin; Peterson, Pearu; Birkedal Nielsen, Rikke; Vendelin, Marko Journal of molecular and cellular cardiology 2016 / p. 197-203 : ill <https://doi.org/10.1016/j.yjmcc.2016.04.012>

## Structural and functional studies of mitochondrial respiration regulation in muscle cells = Lihasrakkude mitokondriaalse hingamise regulatsiooni struktuursed ja funktsionaalsed uuringud

Varikmaa, Minna; Saks, Valdur; Metsis, Madis 2013 [https://www.esther.ee/record=b3035829\\*est](https://www.esther.ee/record=b3035829*est)

## The permeability of mitochondrial outer membrane and metabolic plasticity in colorectal cancer = Mitokondrite välismembraani läbitavus ja metaboolne plastilisus käärsoolevähis

Truu, Laura 2024 [https://www.esther.ee/record=b5679407\\*est](https://www.esther.ee/record=b5679407*est) <https://digikogu.taltech.ee/et/item/1c47ea05-9ec9-4a0b-a7c2-28e8a79afc1e>  
<https://doi.org/10.23658/taltech.19/2024>

## The role of the mitochondrial outer membrane in in vivo regulation of respiration in normal heart and skeletal muscle cells = Étude du contrôle de la respiration mitochondrial des cellules musculaires - rôle de la membrane externe

Tivel, Toomas 2002 [https://www.esther.ee/record=b1655726\\*est](https://www.esther.ee/record=b1655726*est)

## Unchanged mitochondrial organization and compartmentation of high-energy phosphates in creatine-deficient GAMT(-/-) mouse hearts

Branovets, Jelena; Sepp, Mervi; Kotlyarova, Svetlana; Jepihhina, Natalja; Sokolova, Niina; Aksentijevic, Dunja; Neubauer, Stefan; Lygate, Craig A.; Vendelin, Marko; Birkedal Nielsen, Rikke American journal of physiology - heart and circulatory physiology 2013 / p. H506-H520 : ill <https://doi.org/10.1152/ajpheart.00919.2012>

## 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

## Химический синтез и влияние олигомеров 16, 16-диметил-15-кето аналога простагландина B1 на окислительное фосфорилирование в митохондриях : автореферат ... кандидата химических наук (02.00.03)

Martin, Ivar 1991 [https://www.esther.ee/record=b1205941\\*est](https://www.esther.ee/record=b1205941*est)