

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 südamelihaskududes ja selle roll mitokondriaalse suure läbitavusega poori avanemise eest kaitsmisel

Karro, Niina 2015 <https://digi.lib.ttu.ee/ii/?3423> 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

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; Tournier, 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 : süsteemibioloogiast, 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

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

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

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

Kaldma, Andrus 2017 <https://digi.lib.ttu.ee/ii/?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 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](#)

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.ester.ee/record=b3035829*est

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 mitochondriale des cellules musculaires - rôle de la membrane externe

Tiivel, Toomas 2002 https://www.ester.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; Shevchuk, Igor; Terasmaa, Anton; Kaambre, 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 В1 на окислительное фосфорилирование в митохондриях : автореферат ... кандидата химических наук (02.00.03)

Martin, Ivar 1991 https://www.ester.ee/record=b1205941*est