

Altered calcium handling in cardiomyocytes from arginine-glycine amidinotransferase-knockout mice is rescued by creatine

Laasmaa, Martin; Branovets, Jelena; Barsunova, Karina; Karro, Niina; Lygate, Craig A.; Birkedal Nielsen, Rikke; Vendelin, Marko American journal of physiology-heart and circulatory physiology 2020 / p. H805-H825 <https://doi.org/10.1152/ajpheart.00300.2020>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Karro, Niina 2015 <https://digi.lib.ttu.ee/?3423> https://www.ester.ee/record=b4500337*est

Analysis of molecular movement reveals latticelike obstructions to diffusion in heart muscle cells

Illaste, Ardo; Laasmaa, Martin; Peterson, Pearu; Vendelin, Marko Biophysical journal 2012 / p. 739-748 : ill <https://www.sciencedirect.com/science/article/pii/S0006349512000859>

Analysis of molecular movements in cardiac myocytes = Molekulaarsete liikumiste analüüs südamelihaskudedes

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Biofüüsikud loodavad südamerakkude segadusse ajamisega haigusi ennetada

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Cardiac volume related energy consumption

Min, Mart Estonian Science Foundation 2010-2011 2011 / p. 17-18 : phot

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>

Heterogeneity of diffusion restrictions in cardiomyocytes = Difusioonitakistuste heterogeensus südamelihaskudedes

Jepihhina, Natalja 2017 <https://digi.lib.ttu.ee/?8085> https://www.ester.ee/record=b4681847*est

The influence of alternative energy transfer systems on respiration in creatine-deficient mouse cardiomyocytes

Branovets, Jelena; Jugai, Svetlana; Vendelin, Marko; Birkedal Nielsen, Rikke Biophysical journal 2016 / p. 474a-475a <https://doi.org/10.1016/j.bpj.2015.11.2538>

Integrated and organized cellular bioenergetic systems in heart and brain

Anmann, Tiia 2007 http://www.ester.ee/record=b2281020*est

IOCBIO Sparks detection and analysis software

Laasmaa, Martin; Karro, Niina; Birkedal Nielsen, Rikke; Vendelin, Marko PeerJ 2019 / art. e6652, 28 p. : ill <https://doi.org/10.7717/peerj.6652> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Kaasaagne mikroskoopia paljastab südame soopõhised struktuurierisused

Vendelin, Marko; Laasmaa, Martin novaator.err.ee 2024 [Kaasaagne mikroskoopia paljastab südame soopõhised struktuurierisused](https://www.ester.ee/record=b4500337*est)

Mechanoenergetics of a single cardiomyocyte = Ühe südameraku mehaanoenergeetika

Kalda, Mari 2015 https://www.ester.ee/record=b4525654*est

Metabolic compartmentation in rainbow trout cardiomyocytes : coupling of hexokinase but not creatine kinase to mitochondrial respiration

Karro, Niina; Sepp, Mervi; Jugai, Svetlana; Laasmaa, Martin; Vendelin, Marko; Birkedal Nielsen, Rikke Journal of comparative physiology B 2017 / p. 103-116 : ill <https://doi.org/10.1007/s00360-016-1025-x>

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 <https://core.ac.uk/download/pdf/82551314.pdf>

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

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Multi-nodal nano-actuator pacemaker for energy-efficient stimulation of cardiomyocytes

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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>

Ontogeny of cardiomyocytes : ultrastructure optimization to meet the demand for tight communication in excitation–contraction coupling and energy transfer

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Prolonged β -adrenergic stimulation disperses ryanodine receptor clusters in cardiomyocytes and has implications for heart failure

Shen, Xin; Brink, J.W.van den; Bergan-Dahl, Anna; Kolstad, Terje R.; Norden, Einar S.; Hou, Yufeng; **Laasmaa, Martin**; Aguilar-Sanchez, Yuriana; Quick, Ann P.; Espe, Emil K. S. eLife 2022 / art. e77725 <https://doi.org/10.7554/eLife.77725>

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Vendelin, Marko; **Laasmaa, Martin** nauka.err.ee 2024 [Современная микроскопия выявила гендерные структурные различия в сердце](#)