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 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

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 südamelihasrakkudes
Illaste, Ardo 2012 https://digi.lib.ttu.ee/i/?648

Biofüüsikud loodavad südamerakkude segadusse ajamisega haigusi ennetada
Alvela, Ain novaator.err.ee 2023 Biofüüsikud loodavad südamerakkude segadusse ajamisega haigusi ennetada

Cardiac volume related energy consumption
Min, Mart Estonian Science Foundation 2010-2011 2011 / p. 17-18 : phot

Compartmentalization in cardiomyocytes modulates creatine kinase and adenylate kinase activities
Birkedal, Rikke; **Branovets, Jelena**; **Vendelin, Marko** FEBS letters 2024 / p. 2623-2640 https://doi.org/10.1002/1873-3468.14994

Compartmentalization in cardiomyocytes modulates kinase activities
Birkedal, Rikke; **Branovets, Jelena**; **Jaska, Lucia**; **Shikha, Divya**; **Bernasconi, Romain**; **Vendelin, Marko** FEBS Open Bio 2024 / p. 34 https://doi.org/10.1002/2211-5463.13836

Cutting-edge imaging unravels sex-specific structural variations in the heart
Vendelin, Marko; **Marko Vendelin, Laasmaa, Martin** Medical Xpress 2024 https://medicalxpress.com/news/2024-06-edge-imaging-unravels-sex-specific.html https://physoc.onlinelibrary.wiley.com/doi/10.1113/JP284515

Cutting-edge imaging unravels sex-specific structural variations in the heart
Vendelin, Marko eurekalert.org 2024 https://www.eurekalert.org/news-releases/1047671 https://doi.org/10.1113/JP284515

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, Nadežda; Seppet, Enn; Ojeda, Carlos; Tourneur, Yves; Saks, Valdur Biochimica et biophysica acta 2006 / p. 1597-1606 : ill https://www.sciencedirect.com/science/article/pii/S0005272806003070

Formation of highly organized intracellular structure and energy metabolism in cardiac muscle cells during postnatal development of rat heart
Anmann, Tiia; **Varikmaa, Minna**; Timohhina, Natalja; Tepp, Kersti; Shevchuk, Igor; Chekulayev, Vladimir; Saks, Valdur; Kaambre, Tuuli Biochimica et biophysica acta - Bioenergetics 2014 / p. 1350-1361 : ill https://doi.org/10.1016/j.bbabio.2014.03.015 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Heterogeneity of diffusion restrictions in cardiomyocytes = Difusioonitakistuste heterogeensus südamelihasrakkudes
Jepihhina, Natalja 2017 https://digi.lib.ttu.ee/i/?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

IOCBIO Sparks detection and analysis software

Laasmaa, Martin; **Karro, Niina**; **Birkedal Nielsen, Rikke**; **Vendelin, Marko** Biophysical journal 2019 / art. 1900-Pos ; p. 384a https://doi.org/10.1016/j.bpj.2018.11.2080

Kaasaaegne mikroskoopia paljastab südame soopõhised struktuurierisused
Vendelin, Marko; **Laasmaa, Martin** novaator.err.ee 2024 Kaasaaegne mikroskoopia paljastab südame soopõhised struktuurierisused

Kuidas saab südamelihas energiat? CENSi südamelabor. Energia ülekanne südamerakkudes
Engelbrecht, Jüri; **Vendelin, Marko** Keeruka maailma võlu 2015 / lk. 71-74 : ill https://www.ester.ee/record=b4488344*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 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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
Tepp, Kersti 2011

Multi-nodal nano-actuator pacemaker for energy-efficient stimulation of cardiomyocytes
Lu, Pengfei; Veletic, Mladen; **Laasmaa, Martin**; **Vendelin, Marko** Nano Communication Networks 2019 / art. 100270, 11 p. : ill https://doi.org/10.1016/j.nancom.2019.100270 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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
Birkedal Nielsen, Rikke; **Laasmaa, Martin**; **Branovets, Jelena**; **Vendelin, Marko** Philosophical Transactions of the Royal Society B : Biological Sciences 2022 / art. 20210321 https://doi.org/10.1098/rstb.2021.0321 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Prolonged ß-adrenergic stimulation disperses ryanodine receptor clusters in cardiomyocytes: Implications for heart failure
Shen, Xin; van den Brink, Jonas; Bergan-Dahl, Anna; Kolstad, Terje; Norden, Einar; Hou, Yufeng; **Laasmaa, Martin**; Quick, Ann; Espe, Emil; Sjaastad, Ivar Journal of molecular and cellular cardiology 2022 / p. S151 https://doi.org/10.1016/j.yjmcc.2022.08.297

Prolonged β-adrenergic stimulation disperses ryanodine receptor clusters incardiomyocytes 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

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 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Revealing aspects of cardiac function from fluorescence and electrophysiological recordings = Südametalituse uuringud fluorestsentsi ja elektrofüsioloogiliste mõõtmiste abil
Laasmaa, Martin 2016 http://www.ester.ee/record=b4632325*est https://digikogu.taltech.ee/et/Item/5e9f5bd2-8295-4f7e-8f6d-65d0b8002a74

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

Südame täitumismahuga seostuv energiatarve : projekt ETF212 "Südame täitumismahuga seostuv energiatarve", 2007-2009

Min, Mart Eesti Teadusfondi aastaraamat 2010-2011 2011 / lk. 17-18 : fot

Süstemaatiline lähenemine aitab mõista ka inimese südant : [heategevusfondi Wellcome Trust toetusest TTÜ Küberneetika Instituudi vanemteaduri Marko Vendelini juhitud südamelihaste energiategevust uurivale teadlaste rühmale]
Kändler, Tiit Eesti Päevaleht 2007 / lk. 24 https://epl.delfi.ee/artikkel/51090822/susteemne-lahenemine-aitab-moista-ka-inimese-sudant

The location of energetic compartments affects energetic communication in cardiomyocytes
Birkedal, Rikke; **Laasmaa, Martin**; **Vendelin, Marko** Frontiers in physiology 2014 / art. 376, 9 p.: ill
https://doi.org/10.3389/fphys.2014.00376 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Using action potential clamp data to determine the calcium fluxes and contributions in excitation-contraction coupling in vivo in cardiomyocytes
Laasmaa, Martin; **Vendelin, Marko**; **Birkedal Nielsen, Rikke** Biophysical journal 2016 / p. 100a-101a
http://dx.doi.org/10.1016/j.bpj.2015.11.600

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