

**Cardiomyocytes from female compared to male mice have larger ryanodine receptor clusters and higher calcium spark frequency**

**Laasmaa, Martin; Branovets, Jelena; Stolova, Jekaterina; Shen, Xin; Rätsepso, Triinu; Balodis, Mihkel Jaan; Grahv, Cärolin; Hendrikson, Eliise; Louch, William Edward; Birkedal Nielsen, Rikke; Vendelin, Marko** Journal of Physiology 2023 / p. 4033-4052  
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**Compromised creatine kinase energy transfer affects cardiac excitation-contraction coupling**

**Branovets, Jelena; Kalda, Mari; Laasmaa, Martin; Stolova, Jekaterina; Shen, Xin; Grahv, Cärolin; Hendrikson, Eliise; Louch, William Edward; Birkedal, Rikke; Vendelin, Marko** Acta Physiologica 2022 / p. 594-595  
<https://onlinelibrary.wiley.com/doi/epdf/10.1111/apha.13878>

**Compromised creatine kinase energy transfer leads to adaptations in cardiac excitation-contraction coupling that are distinct from changes associated with heart failure : [manuscript]**

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**Energy-efficiency of cardiomyocyte stimulation with rectangular pulses**

**Laasmaa, Martin; Lu, Pengfei; Veleic, Mladen; Louch, William Edward; Bergsland, Jacob; Balasingham, Ilango; Vendelin, Marko** Scientific reports 2019 / art. 13307, p. 1–9 <https://doi.org/10.1038/s41598-019-49791-w> [Journal metrics at Scopus](#) [Article at Scopus](#)  
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**Life-long creatine deficiency leads to adaptations in calcium handling but not heart failure**

**Branovets, Jelena; Laasmaa, Martin; Stolova, Jekaterina; Shen, Xin; Rätsepso, Triinu; Balodis, Mihkel Jaan; Grahv, Carolin; Hendrikson, Eliise; Louch, William Edward; Birkedal, Rikke** Biophysical Journal 2024 / p. 458A-459A  
<https://doi.org/10.1016/j.bpj.2023.11.2785>

**Live-cell photoactivated localization microscopy correlates nanoscale ryanodine receptor configuration to calcium sparks in cardiomyocytes**

**Hou, Yufeng; Laasmaa, Martin; Li, Jia; Shen, Xin; Manfra, Ornella; Nordén, Einar S.; Le, Christopher; Zhang, Lili; Sjaastad, Ivar; Jones, Peter P.; Soeller, Christian; Louch, William Edward** Nature cardiovascular research 2023 / p. 251-267  
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