

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

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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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Life-long creatine deficiency leads to adaptations in calcium handling but not heart failure

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

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Localized CaMKII movement towards the Z-line mediates RyR phosphorylation in cardiomyocytes

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Prolonged β -adrenergic stimulation disperses ryanodine receptor clusters in cardiomyocytes: Implications for heart failure

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

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