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2023

Cardiovascular Mechano-Epigenetics: Force-Dependent Regulation of Histone Modifications and Gene Regulation.

Swiatlowska P and Iskratsch T. *Cardiovascular Drugs and Therapy* vol. 38, (2) 215-222. Springer Nature.

2022

Intrinsic cell rheology drives junction maturation.

Sri-Ranjan K, Sanchez-Alonso JL, Swiatlowska P, Rothery S, Novak P, Gerlach S, Koeninger D, Hoffmann B, Merkel R, Stevens MM, Sun SX, Gorelik J and Braga VMM. *Nature Communications* vol. 13, (1).

Pressure and stiffness sensing together regulate vascular smooth muscle cell phenotype switching.

Swiatlowska P, Sit B, Feng Z, Marhuenda E, Xanthis I, Zingaro S, Ward M, Zhou X, Xiao Q, Shanahan C, Jones GE, Yu C-H and Iskratsch T. *Science Advances* vol. 8, (15).

2021

Cardiovascular mechanobiology Special Issue to look at the state of the art and the newest insights into the role of mechanical forces in cardiovascular development, physiology and disease.

Swiatlowska P and Iskratsch T. *Biophysical Reviews* vol. 13, (5) 575-577. Springer (Part of Springer Nature).

Tools for studying and modulating (cardiac muscle) cell mechanics and mechanosensing across the scales.

Swiatlowska P and Iskratsch T. *Biophysical Reviews* vol. 13, (5) 611-623. Springer Nature.

Announcing the call for the Special Issue on Cardiovascular mechanobiology special issue to look at the state of the art and the newest insights into the role of mechanical forces in cardiovascular development, physiology, and disease.

Swiatlowska P and Iskratsch T. *Biophysical Reviews* vol. 13, (3) 307-308. Springer Nature.

2020

Microtubules regulate cardiomyocyte transversal Young's modulus.

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