Franois Bordeleau

List of Publications by Citations

34 papers	1,267 citations	20 h-index	35 g-index
39 ext. papers	1,629 ext. citations	5.9 avg, IF	4.53 L-index

#	Paper	IF	Citations
34	Matrix stiffening promotes a tumor vasculature phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 492-497	11.5	197
33	Microvesicles provide a mechanism for intercellular communication by embryonic stem cells during embryo implantation. *Nature Communications*, **2016**, 7, 11958	17.4	123
32	Cooperative effects of matrix stiffness and fluid shear stress on endothelial cell behavior. *Biophysical Journal*, **2015**, 108, 471-8	2.9	95
31	Targeted inhibition of fascin function blocks tumour invasion and metastatic colonization. *Nature Communications*, **2015**, 6, 7465	17.4	81
30	Energetic regulation of coordinated leader-follower dynamics during collective invasion of breast cancer cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7867-7872	11.5	73
29	Keratin 8/18 modulation of protein kinase C-mediated integrin-dependent adhesion and migration of liver epithelial cells. *Molecular Biology of the Cell*, **2010**, 21, 1698-713	3.5	63
28	Tissue stiffness regulates serine/arginine-rich protein-mediated splicing of the extra domain B-fibronectin isoform in tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8314-9	11.5	61
27	Regulation of ATP utilization during metastatic cell migration by collagen architecture. *Molecular Biology of the Cell*, **2018**, 29, 1-9	3.5	60
26	Energetic costs regulated by cell mechanics and confinement are predictive of migration path during decision-making. *Nature Communications*, **2019**, 10, 4185	17.4	48
25	Keratin 8/18 regulation of cell stiffness-extracellular matrix interplay through modulation of Rho-mediated actin cytoskeleton dynamics. *PLoS ONE*, **2012**, 7, e38780	3.7	47
24	Matrix Stiffness Enhances VEGFR-2 Internalization, Signaling, and Proliferation in Endothelial Cells. *Convergent Science Physical Oncology*, **2017**, 3,		44
23	Improving fascin inhibitors to block tumor cell migration and metastasis. *Molecular Oncology*, **2016**, 10, 966-80	7.9	44
22	Vinculin Regulates Directionality and Cell Polarity in 2D, 3D Matrix and 3D Microtrack Migration. *Molecular Biology of the Cell*, **2016**,	3.5	43
21	Topographical guidance of 3D tumor cell migration at an interface of collagen densities. *Physical Biology*, **2013**, 10, 065004	3	31
20	Substrate Stiffness Regulates PDGF-Induced Circular Dorsal Ruffle Formation Through MLCK. *Cellular and Molecular Bioengineering*, **2013**, 6, 138	3.9	30
19	Simvastatin Ameliorates Matrix Stiffness-Mediated Endothelial Monolayer Disruption. *PLoS ONE*, **2016**, 11, e0147033	3.7	29
18	Physical biology in cancer. 5. The rocky road of metastasis: the role of cytoskeletal mechanics in cell migratory response to 3D matrix topography. *American Journal of Physiology - Cell Physiology*, **2014**, 306, C110-20	5.4	28

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17	Measurement of dynamic cell-induced 3D displacement fields for traction force optical coherence microscopy. *Biomedical Optics Express*, **2017**, 8, 1152-1171	3.5	25
16	Matrix stiffness regulates vascular integrity through focal adhesion kinase activity. *FASEB Journal*, **2019**, 33, 1199-1208	0.9	24
15	Matrix stiffness regulates microvesicle-induced fibroblast activation. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C82-C92	5.4	20
14	Microvesicles released from tumor cells disrupt epithelial cell morphology and contractility. *Journal of Biomechanics*, **2016**, 49, 1272-1279	2.9	16
13	Extent of Cell Confinement in Microtracks Affects Speed and Results in Differential Matrix Strains. *Biophysical Journal*, **2019**, 117, 1692-1701	2.9	15
12	Probing the biophysical properties of primary breast tumor-derived fibroblasts. *Cellular and Molecular Bioengineering*, **2015**, 8, 76-85	3.9	14
11	Quantitative assessment of cell contractility using polarized light microscopy. *Journal of Biophotonics*, **2018**, 11, e201800008	3.1	8
10	Subcellular regulation of cancer cell mechanics. *Current Opinion in Biomedical Engineering*, **2017**, 1, 8-14	4.4	7
9	Synergic Interactions Between Hepatic Stellate Cells and Uveal Melanoma in Metastatic Growth. *Cancers*, **2019**, 11,	6.6	7
8	Coupling Microfluidic Platforms, Microfabrication, and Tissue Engineered Scaffolds to Investigate Tumor Cells Mechanobiology. *Micromachines*, **2019**, 10,	3.3	7
7	Adenoviral protein E4orf4 interacts with the polarity protein Par3 to induce nuclear rupture and tumor cell death. *Journal of Cell Biology*, **2020**, 219,	7.3	7
6	Phenotypic Heterogeneity and Metastasis of Breast Cancer Cells. *Cancer Research*, **2021**, 81, 3649-3663	10.1	7
5	Tissue transglutaminase 2 regulates tumor cell tensional homeostasis by increasing contractility. *Journal of Cell Science*, **2020**, 133,	5.3	4
4	Tuning cell migration: contractility as an integrator of intracellular signals from multiple cues. *F1000Research*, **2016**, 5,	3.6	3
3	Beneficial Effects of Exercise on Subendothelial Matrix Stiffness are Short-Lived. *Journal of Biomechanical Engineering*, **2018**, 140,	2.1	2
2	Chaperone-Assisted Mitotic Actin Remodeling by BAG3 and HSPB8 Involves the Deacetylase HDAC6 and Its Substrate Cortactin. *International Journal of Molecular Sciences*, **2020**, 22,	6.3	1
1	Matrix stiffness enhances cancer-macrophage interactions and M2-like macrophage accumulation in the breast tumor microenvironment.. *Acta Biomaterialia*, **2022**,	10.8	1