

Nã°ria Gavara

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,149
citations

361045

20
h-index

315357

38
g-index

40
all docs

40
docs citations

40
times ranked

3353
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonpolarized signaling reveals two distinct modes of 3D cell migration. <i>Journal of Cell Biology</i> , 2012, 197, 439-455.	2.3	325
2	Probing mechanical properties of living cells by atomic force microscopy with blunted pyramidal cantilever tips. <i>Physical Review E</i> , 2005, 72, 021914.	0.8	316
3	Determination of the elastic moduli of thin samples and adherent cells using conical atomic force microscope tips. <i>Nature Nanotechnology</i> , 2012, 7, 733-736.	15.6	246
4	A beginner's guide to atomic force microscopy probing for cell mechanics. <i>Microscopy Research and Technique</i> , 2017, 80, 75-84.	1.2	143
5	Relationship between cell stiffness and stress fiber amount, assessed by simultaneous atomic force microscopy and live-cell fluorescence imaging. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 511-523.	1.4	117
6	Rheology of Passive and Adhesion-Activated Neutrophils Probed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2006, 91, 3508-3518.	0.2	85
7	Actomyosin and vimentin cytoskeletal networks regulate nuclear shape, mechanics and chromatin organization. <i>Scientific Reports</i> , 2017, 7, 5219.	1.6	78
8	Mapping Cell-Matrix Stresses during Stretch Reveals Inelastic Reorganization of the Cytoskeleton. <i>Biophysical Journal</i> , 2008, 95, 464-471.	0.2	70
9	Extracellular fluid viscosity enhances liver cancer cell mechanosensing and migration. <i>Biomaterials</i> , 2018, 177, 113-124.	5.7	65
10	Combined strategies for optimal detection of the contact point in AFM force-indentation curves obtained on thin samples and adherent cells. <i>Scientific Reports</i> , 2016, 6, 21267.	1.6	60
11	Cytoskeletal changes in actin and microtubules underlie the developing surface mechanical properties of sensory and supporting cells in the mouse cochlea. <i>Development (Cambridge)</i> , 2012, 139, 2187-2197.	1.2	54
12	The keratin network of intermediate filaments regulates keratinocyte rigidity sensing and nuclear mechanotransduction. <i>Science Advances</i> , 2021, 7, .	4.7	50
13	Lifeact-TagGFP2 alters F-actin organization, cellular morphology and biophysical behaviour. <i>Scientific Reports</i> , 2019, 9, 3241.	1.6	49
14	Noncontact microrheology at acoustic frequencies using frequency-modulated atomic force microscopy. <i>Nature Methods</i> , 2010, 7, 650-654.	9.0	48
15	Differential effects of LifeAct-GFP and actin-GFP on cell mechanics assessed using micropipette aspiration. <i>Journal of Biomechanics</i> , 2016, 49, 310-317.	0.9	45
16	Thrombin-induced contraction in alveolar epithelial cells probed by traction microscopy. <i>Journal of Applied Physiology</i> , 2006, 101, 512-520.	1.2	41
17	Nickel induces intracellular calcium mobilization and pathophysiological responses in human cultured airway epithelial cells. <i>Chemico-Biological Interactions</i> , 2010, 183, 25-33.	1.7	34
18	Collagen-Based Mechanical Anisotropy of the Tectorial Membrane: Implications for Inter-Row Coupling of Outer Hair Cell Bundles. <i>PLoS ONE</i> , 2009, 4, e4877.	1.1	33

#	ARTICLE	IF	CITATIONS
19	Vimentin Plays a Crucial Role in Fibroblast Ageing by Regulating Biophysical Properties and Cell Migration. <i>Cells</i> , 2019, 8, 1164.	1.8	33
20	Effect of stretch on structural integrity and micromechanics of human alveolar epithelial cell monolayers exposed to thrombin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L1104-L1110.	1.3	27
21	Ezrin Phosphorylation at T567 Modulates Cell Migration, Mechanical Properties, and Cytoskeletal Organization. <i>International Journal of Molecular Sciences</i> , 2020, 21, 435.	1.8	24
22	Activation of Store-Operated Ca ²⁺ Channels in Trabecular Meshwork Cells. , 2008, 49, 677.		18
23	Nuclear Mechanics and Stem Cell Differentiation. <i>Stem Cell Reviews and Reports</i> , 2015, 11, 804-812.	5.6	18
24	Auditory mechanics of the tectorial membrane and the cochlear spiral. <i>Current Opinion in Otolaryngology and Head and Neck Surgery</i> , 2011, 19, 382-387.	0.8	17
25	Baseline Stiffness Modulates the Non-Linear Response to Stretch of the Extracellular Matrix in Pulmonary Fibrosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12928.	1.8	17
26	Thyroid hormone increases fibroblast growth factor receptor expression and disrupts cell mechanics in the developing organ of corti. <i>BMC Developmental Biology</i> , 2013, 13, 6.	2.1	16
27	Frequency-modulated atomic force microscopy localises viscoelastic remodelling in the ageing sheep aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 10-17.	1.5	16
28	Novel Decellularization Method for Tissue Slices. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 832178.	2.0	15
29	Cobalt ions stimulate a fibrotic response through matrix remodelling, fibroblast contraction and release of pro-fibrotic signals from macrophages. , 2018, 36, 142-155.		13
30	Fibroblast growth factor receptor 3 regulates microtubule formation and cell surface mechanical properties in the developing organ of Corti. <i>Bioarchitecture</i> , 2012, 2, 214-219.	1.5	11
31	Stiffening and Contraction Induced by Dexamethasone in Alveolar Epithelial Cells. <i>Experimental Mechanics</i> , 2009, 49, 47-55.	1.1	10
32	A Novel Putative Microtubule-Associated Protein Is Involved in Arbuscule Development during Arbuscular Mycorrhiza Formation. <i>Plant and Cell Physiology</i> , 2021, 62, 306-320.	1.5	9
33	Lung Extracellular Matrix Hydrogels Enhance Preservation of Type II Phenotype in Primary Alveolar Epithelial Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4888.	1.8	8
34	Image-Based Method to Quantify Decellularization of Tissue Sections. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8399.	1.8	7
35	The Mechanical Interplay Between Differentiating Mesenchymal Stem Cells and Gelatin-Based Substrates Measured by Atomic Force Microscopy. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 697525.	1.8	6
36	New Bioengineering Breakthroughs and Enabling Tools in Regenerative Medicine. <i>Current Stem Cell Reports</i> , 2017, 3, 83-97.	0.7	5

#	ARTICLE	IF	CITATIONS
37	Research Techniques Made Simple: Analysis of Skin Cell and Tissue Mechanics Using Atomic Force Microscopy. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1867-1871.e1.	0.3	5
38	Withaferin-A Can Be Used to Modulate the Keratin Network of Intermediate Filaments in Human Epidermal Keratinocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4450.	1.8	4
39	Cytoskeletal changes in actin and microtubules underlie the developing surface mechanical properties of sensory and supporting cells in the mouse cochlea. <i>Journal of Cell Science</i> , 2012, 125, e1-e1.	1.2	1