Jordi Alcaraz

List of Publications by Year in descending order

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46 papers	2,964 citations	257101 24 h-index	344852 36 g-index
48 all docs	48 docs citations	48 times ranked	4328 citing authors

#	Article	IF	Citations
1	Microrheology of Human Lung Epithelial Cells Measured by Atomic Force Microscopy. Biophysical Journal, 2003, 84, 2071-2079.	0.2	630
2	A mechanically active heterotypic E-cadherin/N-cadherin adhesion enables fibroblasts toÂdrive cancer cell invasion. Nature Cell Biology, 2017, 19, 224-237.	4.6	567
3	Micropatterning of Single Endothelial Cell Shape Reveals a Tight Coupling between Nuclear Volume in G1 and Proliferation. Biophysical Journal, 2008, 94, 4984-4995.	0.2	168
4	Correction of Microrheological Measurements of Soft Samples with Atomic Force Microscopy for the Hydrodynamic Drag on the Cantilever. Langmuir, 2002, 18, 716-721.	1.6	161
5	Laminin and biomimetic extracellular elasticity enhance functional differentiation in mammary epithelia. EMBO Journal, 2008, 27, 2829-2838.	3.5	161
6	Cell shape regulates global histone acetylation in human mammary epithelial cells. Experimental Cell Research, 2007, 313, 3066-3075.	1.2	150
7	Measurement of cell microrheology by magnetic twisting cytometry with frequency domain demodulation. Journal of Applied Physiology, 2001, 91, 1152-1159.	1.2	136
8	Transmembrane/cytoplasmic, rather than catalytic, domains of Mmp14 signal to MAPK activation and mammary branching morphogenesis via binding to integrin Î²1. Development (Cambridge), 2013, 140, 343-352.	1.2	91
9	Aberrant DNA methylation in non-small cell lung cancer-associated fibroblasts. Carcinogenesis, 2015, 36, bgv146.	1.3	84
10	Dysregulated Collagen Homeostasis by Matrix Stiffening and TGF-Î²1 in Fibroblasts from Idiopathic Pulmonary Fibrosis Patients: Role of FAK/Akt. International Journal of Molecular Sciences, 2017, 18, 2431.	1.8	68
11	Oxygen diffusion and consumption in extracellular matrix gels: Implications for designing threeâ€dimensional cultures. Journal of Biomedical Materials Research - Part A, 2014, 102, 2776-2784.	2.1	63
12	Bidirectional mechanobiology between cells and their local extracellular matrix probed by atomic force microscopy. Seminars in Cell and Developmental Biology, 2018, 73, 71-81.	2.3	63
13	Fibroblast viability and phenotypic changes within glycated stiffened three-dimensional collagen matrices. Respiratory Research, 2015, 16, 82.	1.4	51
14	Collective epithelial cell invasion overcomes mechanical barriers of collagenous extracellular matrix by a narrow tube-like geometry and MMP14-dependent local softening. Integrative Biology (United Kingdom), 2011, 3, 1153.	0.6	50
15	Nintedanib selectively inhibits the activation and tumour-promoting effects of fibroblasts from lung adenocarcinoma patients. British Journal of Cancer, 2017, 117, 1128-1138.	2.9	45
16	Matrix Stiffening and Î²1 Integrin Drive Subtype-Specific Fibroblast Accumulation in Lung Cancer. Molecular Cancer Research, 2015, 13, 161-173.	1.5	44
17	Effects of Sustained and Intermittent Hypoxia on Human Lung Cancer Cells. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 540-544.	1.4	43
18	Stromal markers of activated tumor associated fibroblasts predict poor survival and are associated with necrosis in non-small cell lung cancer. Lung Cancer, 2019, 135, 151-160.	0.9	36

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19	Matrix Metalloproteinases and Their Inhibitors in Pulmonary Fibrosis: EMMPRIN/CD147 Comes into Play. International Journal of Molecular Sciences, 2022, 23, 6894.	1.8	36
20	A spectrophotometer-based diffusivity assay reveals that diffusion hindrance of small molecules in extracellular matrix gels used in 3D cultures is dominated by viscous effects. Colloids and Surfaces B: Biointerfaces, 2014, 120, 200-207.	2.5	35
21	Epithelial contribution to the profibrotic stiff microenvironment and myofibroblast population in lung fibrosis. Molecular Biology of the Cell, 2017, 28, 3741-3755.	0.9	33
22	MMP1 drives tumor progression in large cell carcinoma of the lung through fibroblast senescence. Cancer Letters, 2021, 507, 1-12.	3.2	33
23	Integrin-Specific Mechanoresponses to Compression and Extension Probed by Cylindrical Flat-Ended AFM Tips in Lung Cells. PLoS ONE, 2012, 7, e32261.	1.1	31
24	Elastic properties of hydrogels and decellularized tissue sections used in mechanobiology studies probed by atomic force microscopy. Microscopy Research and Technique, 2017, 80, 85-96.	1.2	26
25	Epigenetic SMAD3 Repression in Tumor-Associated Fibroblasts Impairs Fibrosis and Response to the Antifibrotic Drug Nintedanib in Lung Squamous Cell Carcinoma. Cancer Research, 2020, 80, 276-290.	0.4	25
26	Biomechanical Approaches for Studying Integration of Tissue Structure and Function in Mammary Epithelia. Journal of Mammary Gland Biology and Neoplasia, 2004, 9, 361-374.	1.0	21
27	Evaluation of a method for assessing respiratory mechanics during noninvasive ventilation. European Respiratory Journal, 2000, 16, 704.	3.1	18
28	Heterotypic paracrine signaling drives fibroblast senescence and tumor progression of large cell carcinoma of the lung. Oncotarget, 2016, 7, 82324-82337.	0.8	17
29	Abrogation of myofibroblast activities in metastasis and fibrosis by methyltransferase inhibition. International Journal of Cancer, 2019, 145, 3064-3077.	2.3	16
30	AnÃ¡lisis de marcadores biolÃ³gicos en el Proyecto EstratÃ©gico de CÃ¡ncer de PulmÃ³n CIBERES-RTIC CÃ¡ncer-SEPAR. Archivos De Bronconeumologia, 2015, 51, 462-467.	0.4	9
31	Aberrant TIMP-1 overexpression in tumor-associated fibroblasts drives tumor progression through CD63 in lung adenocarcinoma. Matrix Biology, 2022, 111, 207-225.	1.5	9
32	Interleukin-1Î² Modulation of the Mechanobiology of Primary Human Pulmonary Fibroblasts: Potential Implications in Lung Repair. International Journal of Molecular Sciences, 2020, 21, 8417.	1.8	8
33	Nanomechanics of lung epithelial cells. International Journal of Nanotechnology, 2005, 2, 180.	0.1	7
34	Characterization of the elastic properties of extracellular matrix models by atomic force microscopy. Methods in Cell Biology, 2020, 156, 59-83.	0.5	7
35	Epigenetic Reprogramming of Tumor-Associated Fibroblasts in Lung Cancer: Therapeutic Opportunities. Cancers, 2021, 13, 3782.	1.7	4
36	Fibroblast Cell Growth And Viability Inside A Stiffened Three Dimentional Collagen Matrix. , 2011, , .		0

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37	Abstract 1482: Abnormal abundance of senescent fibroblasts in the tumor stroma of non-small cell lung cancer patients. , 2012, , .		0
38	Transmembrane/cytoplasmic, rather than catalytic, domains of Mmp14 signal to MAPK activation and mammary branching morphogenesis via binding to integrin Î²1. Journal of Cell Science, 2013, 126, e1-e1.	1.2	0
39	Abstract 1103: An abnormally stiff microenvironment supports the overabundance of fibroblasts in non-small cell lung cancer.. , 2013, , .		0
40	Abstract 1089: Matrix stiffening and Î²1 integrin promote fibroblast accumulation in lung squamous cell carcinomas but not in adenocarcinomas. , 2014, , .		0
41	Abstract 3366: The mechanical microenvironment and Î²1/FAK signaling control fibroblast accumulation in lung cancer. , 2015, , .		0
42	Abstract 2763: DNA methylation profiling unveils TGF-Î² hyperresponse in tumor associated fibroblasts from lung cancer patients. , 2016, , .		0
43	Abstract 4103: Cancer cell-stromal cell crosstalk drives fibroblast senescence and tumor progression in large cell carcinoma of the lung in culture and in vivo. , 2016, , .		0
44	Effects of tumor stroma and inflammation on survival of stage I-IIp lung cancer. , 2017, , .		0
45	Abstract 2021: Role of MMP1-PAR-1 crosstalk in the pro-tumorigenic senescent fibroblasts in large cell carcinoma of the lung. , 2019, , .		0
46	Effects of Sustained and Intermittent Hypoxia on Human Lung Cancer Cells. , 2019, , .		0