Alessandra Cucina

List of Publications by Year
in descending order

99 papers	3,247 citations	109137 35 h-index	174990 52 g-index
101 all docs	101 docs citations	101 times ranked	4279 citing authors

#	Article	IF	Citations
1	Molecular mechanisms of the pro-apoptotic actions of melatonin in cancer: a review. Expert Opinion on Therapeutic Targets, 2013, 17, 1483-1496.	1.5	158
2	Pharmacodynamics and pharmacokinetics of inositol(s) in health and disease. Expert Opinion on Drug Metabolism and Toxicology, 2016, 12, 1181-1196.	1.5	124
3	Nicotine-induced smooth muscle cell proliferation is mediated through bFGF and TGF-Î²1. Surgery, 2000, 127, 316-322.	1.0	100
4	Evidence for a biphasic apoptotic pathway induced by melatonin in MCFâ€7 breast cancer cells. Journal of Pineal Research, 2009, 46, 172-180.	3.4	98
5	Melatonin and vitamin D₃ synergistically downâ€regulate Akt and MDM2 leading to TGFÎ²â€1â€dependent growth inhibition of breast cancer cells. Journal of Pineal Research, 2011, 50, 150-158.	3.4	86
6	Melatonin downâ€regulates <scp>MDM</scp>2 gene expression and enhances p53 acetylation in <scp>MCF</scp>â€7 cells. Journal of Pineal Research, 2014, 57, 120-129.	3.4	81
7	Nicotine Regulates Basic Fibroblastic Growth Factor and Transforming Growth Factor Î²1Production in Endothelial Cells. Biochemical and Biophysical Research Communications, 1999, 257, 306-312.	1.0	80
8	Antiproliferative and Apoptotic Effects Triggered by Grape Seed Extract (GSE) versus Epigallocatechin and Procyanidins on Colon Cancer Cell Lines. International Journal of Molecular Sciences, 2012, 13, 651-664.	1.8	76
9	Theoretical aspects of Systems Biology. Progress in Biophysics and Molecular Biology, 2013, 112, 33-43.	1.4	76
10	Nicotine stimulates proliferation and inhibits apoptosis in colon cancer cell lines through activation of survival pathways. Journal of Surgical Research, 2012, 178, 233-241.	0.8	73
11	Tumor and the Microenvironment: A Chance to Reframe the Paradigm of Carcinogenesis?. BioMed Research International, 2014, 2014, 1-9.	0.9	72
12	Nutritional and Acquired Deficiencies in Inositol Bioavailability. Correlations with Metabolic Disorders. International Journal of Molecular Sciences, 2017, 18, 2187.	1.8	72
13	Shear stress induces transforming growth factorâ€“beta1 release by arterial endothelial cells. Surgery, 1998, 123, 212-217.	1.0	70
14	Broad Spectrum Anticancer Activity of Myo-Inositol and Inositol Hexakisphosphate. International Journal of Endocrinology, 2016, 2016, 1-14.	0.6	69
15	Vascular endothelial growth factor increases the migration and proliferation of smooth muscle cells through the mediation of growth factors released by endothelial cells. Journal of Surgical Research, 2003, 109, 16-23.	0.8	68
16	Phenotypic Switch Induced by Simulated Microgravity on MDA-MB-231 Breast Cancer Cells. BioMed Research International, 2014, 2014, 1-12.	0.9	68
17	Molecular mechanisms of melatoninâ€™s inhibitory actions on breast cancers. Cellular and Molecular Life Sciences, 2013, 70, 2139-2157.	2.4	67
18	A Systems Biology Approach to Cancer: Fractals, Attractors, and Nonlinear Dynamics. OMICS A Journal of Integrative Biology, 2011, 15, 93-104.	1.0	55

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19	Zebrafish embryo proteins induce apoptosis in human colon cancer cells (Caco2). Apoptosis: an International Journal on Programmed Cell Death, 2006, 11, 1617-1628.	2.2	54
20	Inositol induces mesenchymal-epithelial reversion in breast cancer cells through cytoskeleton rearrangement. Experimental Cell Research, 2016, 345, 37-50.	1.2	54
21	Shear stress induces changes in the morphology and cytoskeleton organisation of arterial endothelial cells. European Journal of Vascular and Endovascular Surgery, 1995, 9, 86-92.	0.8	53
22	Metabolism and cell shape in cancer: A fractal analysis. International Journal of Biochemistry and Cell Biology, 2011, 43, 1052-1058.	1.2	53
23	Modulation of arterial smooth muscle cell growth by haemodynamic forces. European Journal of Vascular Surgery, 1992, 6, 16-20.	0.9	49
24	Nicotine Reorganizes Cytoskeleton of Vascular Endothelial Cell through Platelet-Derived Growth Factor BB. Journal of Surgical Research, 2000, 92, 233-238.	0.8	49
25	Lung Cancer Stem Cell Lose Their Stemness Default State after Exposure to Microgravity. BioMed Research International, 2014, 2014, 1-8.	0.9	48
26	Shear stress influences the release of platelet derived growth factor and basic fibroblast growth factor by arterial smooth muscle cells. European Journal of Vascular Surgery, 1994, 8, 138-142.	0.9	46
27	Apoptosis-inducing factor and caspase-dependent apoptotic pathways triggered by different grape seed extracts on human colon cancer cell line Caco-2. British Journal of Nutrition, 2010, 104, 824-832.	1.2	46
28	Melatonin, mitochondria, and the cancer cell. Cellular and Molecular Life Sciences, 2017, 74, 4015-4025.	2.4	45
29	Progression and regression of myointimal hyperplasia in experimental vein grafts depends on platelet-derived growth factor and basic fibroblastic growth factor production. Journal of Vascular Surgery, 1996, 23, 568-575.	0.6	44
30	Nicotine Inhibits Apoptosis and Stimulates Proliferation in Aortic Smooth Muscle Cells Through a Functional Nicotinic Acetylcholine Receptor. Journal of Surgical Research, 2008, 150, 227-235.	0.8	44
31	Formation of myointimal hyperplasia and cytokine production in experimental vein grafts. Surgery, 1998, 123, 461-469.	1.0	43
32	Nicotine induces platelet-derived growth factor release and cytoskeletal alteration in aortic smooth muscle cells. Surgery, 2000, 127, 72-78.	1.0	42
33	Melatonin and vitamin D 3 increase TGF-Î² 1 release and induce growth inhibition in breast cancer cell cultures. Journal of Surgical Research, 2003, 110, 332-337.	0.8	40
34	Nicotine increases survival in human colon cancer cells treated with chemotherapeutic drugs. Toxicology in Vitro, 2013, 27, 2256-2263.	1.1	39
35	Quercetin Affects Hsp70/IRE1Î±Mediated Protection from Death Induced by Endoplasmic Reticulum Stress. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-11.	1.9	39
36	Thrombin Induces Production of Growth Factors from Aortic Smooth Muscle Cells. Journal of Surgical Research, 1999, 82, 61-66.	0.8	37

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37	Microenvironment Promotes Tumor Cell Reprogramming in Human Breast Cancer Cell Lines. PLoS ONE, 2013, 8, e83770.	1.1	36
38	Increase in motility and invasiveness of <scp>MCF</scp>7 cancer cells induced by nicotine is abolished by melatonin through inhibition of <scp>ERK</scp> phosphorylation. Journal of Pineal Research, 2018, 64, e12467.	3.4	35
39	Bimodal Concentration-Dependent Effect of Thrombin on Endothelial Cell Proliferation and Growth Factor Release in Culture. Journal of Surgical Research, 2001, 100, 154-160.	0.8	34
40	Shape in migration. Cell Adhesion and Migration, 2013, 7, 450-459.	1.1	34
41	Simulated microgravity triggers epithelial mesenchymal transition in human keratinocytes. Scientific Reports, 2017, 7, 538.	1.6	30
42	Alpha-Lipoic Acid Downregulates IL-1Î² and IL-6 by DNA Hypermethylation in SK-N-BE Neuroblastoma Cells. Antioxidants, 2017, 6, 74.	2.2	29
43	Grape seed extract suppresses MDA-MB231 breast cancer cell migration and invasion. European Journal of Nutrition, 2014, 53, 421-431.	1.8	28
44	MMP7 expression in colorectal tumours of different stages. In Vivo, 2014, 28, 105-10.	0.6	27
45	Peroxiredoxin 2 nuclear levels are regulated by circadian clock synchronization in human keratinocytes. International Journal of Biochemistry and Cell Biology, 2014, 53, 24-34.	1.2	25
46	Nicotine increases colon cancer cell migration and invasion through epithelial to mesenchymal transition (EMT): COXâ€2 involvement. Journal of Cellular Physiology, 2018, 233, 4935-4948.	2.0	25
47	Phenotypic transitions enacted by simulated microgravity do not alter coherence in gene transcription profile. Npj Microgravity, 2019, 5, 27.	1.9	25
48	Does myo-inositol effect on PCOS follicles involve cytoskeleton regulation?. Medical Hypotheses, 2016, 91, 1-5.	0.8	24
49	Gravity Constraints Drive Biological Systems Toward Specific Organization Patterns. BioEssays, 2018, 40, 1700138.	1.2	24
50	Grape seed extract triggers apoptosis in Caco-2 human colon cancer cells through reactive oxygen species and calcium increase: extracellular signal-regulated kinase involvement. British Journal of Nutrition, 2013, 110, 797-809.	1.2	22
51	SMT and TOFT: Why and How They are Opposite and Incompatible Paradigms. Acta Biotheoretica, 2016, 64, 221-239.	0.7	22
52	High density lipoproteins downregulate basic fibroblast growth factor production and release in minimally oxidated-LDL treated smooth muscle cells. Atherosclerosis, 2006, 189, 303-309.	0.4	21
53	Cytoskeleton Modifications and Autophagy Induction in TCam-2 Seminoma Cells Exposed to Simulated Microgravity. BioMed Research International, 2014, 2014, 1-14.	0.9	21
54	Gravity sensing by cells: mechanisms and theoretical grounds. Rendiconti Lincei, 2014, 25, 29-38.	1.0	21

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55	Antioxidant Strategy to Prevent Simulated Microgravity-Induced Effects on Bone Osteoblasts. International Journal of Molecular Sciences, 2020, 21, 3638.	1.8	21
56	Active Fraction from Embryo Fish Extracts Induces Reversion of the Malignant Invasive Phenotype in Breast Cancer through Down-regulation of TCTP and Modulation of E-cadherin/Î²-catenin Pathway. International Journal of Molecular Sciences, 2019, 20, 2151.	1.8	20
57	Fractal analysis of shape changes in murine osteoblasts cultured under simulated microgravity. Rendiconti Lincei, 2014, 25, 39-47.	1.0	19
58	Release of PDGF-BB and bFGF by Human Endothelial Cells Seeded on Expanded Polytetrafluoroethylene Vascular Grafts. Journal of Surgical Research, 1998, 75, 24-29.	0.8	18
59	Microgravity influences circadian clock oscillation in human keratinocytes. FEBS Open Bio, 2015, 5, 717-723.	1.0	18
60	Survival Pathways Are Differently Affected by Microgravity in Normal and Cancerous Breast Cells. International Journal of Molecular Sciences, 2021, 22, 862.	1.8	18
61	Multiwalled carbon nanotube buckypaper induces cell cycle arrest and apoptosis in human leukemia cell lines through modulation of AKT and MAPK signaling pathways. Toxicology in Vitro, 2015, 29, 1298-1308.	1.1	17
62	The expression of native and oxidized LDL receptors in brain microvessels is specifically enhanced by astrocytes-derived soluble factor(s). FEBS Letters, 2002, 522, 19-23.	1.3	16
63	A new approach for the preparation of hydrophilic poly(<scp>L</scp>â€lactide) porous scaffold for tissue engineering by using lamellar single crystals. Polymer International, 2012, 61, 1177-1185.	1.6	16
64	Tumor reversion and embryo morphogenetic factors. Seminars in Cancer Biology, 2022, 79, 83-90.	4.3	16
65	Autocrine production of basic fibroblast growth factor translated from novel synthesized mRNA mediates thrombin-induced mitogenesis in smooth muscle cells. Cell Biochemistry and Function, 2002, 20, 39-46.	1.4	15
66	Growth factor release by smooth muscle cells is dependent on haemodynamic factors. European Journal of Vascular Surgery, 1992, 6, 636-638.	0.9	14
67	Paradoxical E-cadherin increase in 5FU-resistant colon cancer is unaffected during mesenchymalâ€“epithelial reversion induced by Î³-secretase inhibition. Life Sciences, 2016, 145, 174-183.	2.0	14
68	Physical constraints in cell fate specification. A case in point: Microgravity and phenotypes differentiation. Progress in Biophysics and Molecular Biology, 2018, 134, 55-67.	1.4	14
69	Growth factors and experimental arterial grafts. Journal of Vascular Surgery, 2016, 64, 1444-1449.	0.6	13
70	Constraints Shape Cell Function and Morphology by Canalizing the Developmental Path along the Waddington's Landscape. BioEssays, 2020, 42, 1900108.	1.2	13
71	Tumor Reversion: Mesenchymal-Epithelial Transition as a Critical Step in Managing the Tumor-Microenvironment Cross-Talk. Current Pharmaceutical Design, 2017, 23, 4705-4715.	0.9	13
72	Systems Biology Approach and Mathematical Modeling for Analyzing Phase-Space Switch During Epithelial-Mesenchymal Transition. Methods in Molecular Biology, 2018, 1702, 95-123.	0.4	11

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73	TCam-2 Seminoma Cells Exposed to Egg-Derived Microenvironment Modify Their Shape, Adhesive Pattern and Migratory Behaviour: A Molecular and Morphometric Analysis. PLoS ONE, 2013, 8, e76192.	1.1	11
74	Personalization of medical treatments in oncology: time for rethinking the disease concept to improve individual outcomes. EPMA Journal, 2021, 12, 545-558.	3.3	11
75	Redifferentiation therapeutic strategies in cancer. Drug Discovery Today, 2020, 25, 731-738.	3.2	10
76	miR-125a-5p impairs the metastatic potential in breast cancer via IP6K1 targeting. Cancer Letters, 2021, 520, 48-56.	3.2	10
77	Growth factor production after polytetrafluoroethylene and vein arterial grafting: an experimental study. Journal of Vascular Surgery, 1996, 23, 453-460.	0.6	9
78	Role of Growth Factors on Human Parathyroid Adenoma Cell Proliferation. World Journal of Surgery, 2010, 34, 48-54.	0.8	9
79	Rediscovery of natural compounds acting via multitarget recognition and noncanonical pharmacodynamical actions. Drug Discovery Today, 2020, 25, 920-927.	3.2	9
80	The Effect of Locally Administered Anti-Growth Factor Antibodies on Neointimal Hyperplasia Formation in Expanded Polytetrafluoroethylene Grafts. Annals of Vascular Surgery, 2009, 23, 398-409.	0.4	8
81	Modulation of both Insulin Resistance and Cancer Growth by Inositol. Current Pharmaceutical Design, 2018, 23, 5200-5210.	0.9	8
82	c-Src Recruitment is Involved in c-MET-Mediated Malignant Behaviour of NT2D1 Non-Seminoma Cells. International Journal of Molecular Sciences, 2019, 20, 320.	1.8	8
83	Microgravity Modifies the Phenotype of Fibroblast and Promotes Remodeling of the Fibroblastâ€“Keratinocyte Interaction in a 3D Co-Culture Model. International Journal of Molecular Sciences, 2022, 23, 2163.	1.8	8
84	Microgravity Induces Transient EMT in Human Keratinocytes by Early Down-Regulation of E-Cadherin and Cell-Adhesion Remodeling. Applied Sciences (Switzerland), 2021, 11, 110.	1.3	7
85	The degree of porosity influences the release of growth factors by healing polytetrafluoroethylene (PTFE) grafts. European Journal of Vascular and Endovascular Surgery, 1996, 11, 36-41.	0.8	6
86	A Randomized Pilot Study of Inositol in Association with Betaine and Boswellia in the Management of Mastalgia and Benign Breast Lump in Premenopausal Women. Breast Cancer: Basic and Clinical Research, 2016, 10, BCBCR.S38408.	0.6	6
87	Inflammation and myointimal hyperplasia. Correlation with hemodynamic forces. Vascular Pharmacology, 2019, 117, 1-6.	1.0	6
88	bFGF release is dependent on flow conditions in experimental vein grafts. European Journal of Vascular and Endovascular Surgery, 1995, 10, 450-458.	0.8	5
89	Increased Production of Cytokines and Growth Factors by Aortic Allografts: A Possible Explanation for Myointimal Hyperplasia Formation. European Surgical Research, 1999, 31, 297-304.	0.6	5
90	The PI3K/AKT Pathway Is Activated by HGF in NT2D1 Non-Seminoma Cells and Has a Role in the Modulation of Their Malignant Behavior. International Journal of Molecular Sciences, 2020, 21, 8669.	1.8	5

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91	TIMP-2 Modulates Neointimal Formation in Experimental ePTFE Arterial Grafts. Journal of Surgical Research, 2007, 137, 122-129.	0.8	4
92	S-adenosylmethionine Inhibits Ubiquitin-Proteasome System In Vitro and on Rat Vascular Smooth Muscle Cells. Protein and Peptide Letters, 2008, 15, 58-62.	0.4	4
93	Alpha-lipoic acid represses IL-1B and IL-6 through DNA methylation in ovarian cells. PharmaNutrition, 2017, 5, 77-83.	0.8	4
94	IN VITRO PROLIFERATION AND IN VIVO MALIGNANCY OF CELL LINES SIMULTANEOUSLY DERIVED FROM A CHEMICALLY-INDUCED HETEROGENEOUS RAT MAMMARY TUMOR. In Vitro Cellular and Developmental Biology - Animal, 2000, 36, 163.	0.7	2
95	Cross talk between inflammatory cytokines and granulocyte-macrophage colony-stimulating factor in transplant vasculopathy. Journal of Surgical Research, 2017, 212, 114-121.	0.8	1
96	Cross talk between TGF beta and TNF alfa in regression of myointimal hyperplasia. Journal of Surgical Research, 2017, 220, 6-11.	0.8	1
97	Efecto de la administraciÃ³n local de anticuerpos anti-factor del crecimiento sobre la hiperplasia neointimal en injertos de PTFE. Annals of Vascular Surgery, 2009, 23, 438-450.	0.0	0
98	Effet des anticorps anti-facteur de croissance administrÃ©s localement sur la formation d'hyperplasie nÃ©ointimale dans les prothÃ¨ses en polytÃ©trafluoroÃ©thylÃ¨ne expansÃ©. Annales De Chirurgie Vasculaire, 2009, 23, 428-440.	0.0	0
99	Tumor Reversion Induced by Embryo and Oocyte Extracts. Human Perspectives in Health Sciences and Technology, 2020, , 275-285.	0.2	0