

Andrea M Mastro

List of Publications by Year in descending order

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110
papers

4,481
citations

87843

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110317

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docs citations

111
times ranked

4924
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of substratum surface chemistry/energy and topography on the human fetal osteoblastic cell line hFOB 1.19: Phenotypic and genotypic responses observed in vitro†. <i>Biomaterials</i> , 2007, 28, 4535-4550.	5.7	292
2	The bone microenvironment in metastasis; what is special about bone?. <i>Cancer and Metastasis Reviews</i> , 2008, 27, 41-55.	2.7	247
3	Breast cancer metastasis to the bone: mechanisms of bone loss. <i>Breast Cancer Research</i> , 2010, 12, 215.	2.2	227
4	Prolactin Induction of Interleukin-2 Receptors on Rat Splenic Lymphocytes*. <i>Endocrinology</i> , 1990, 126, 88-94.	1.4	182
5	Synergistic action of phorbol esters in mitogen-activated bovine lymphocytes. <i>Experimental Cell Research</i> , 1974, 88, 40-46.	1.2	147
6	A Spontaneous 3D Bone-on-a-Chip for Bone Metastasis Study of Breast Cancer Cells. <i>Small</i> , 2018, 14, e1702787.	5.2	138
7	Calcium-dependent activation of lymphocytes by ionophore, A23187, and a phorbol ester tumor promoter. <i>Journal of Cellular Physiology</i> , 1983, 116, 51-56.	2.0	121
8	Exercise and Lymphocyte Activation following Chemotherapy for Breast Cancer. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1827-1835.	0.2	116
9	Kinetics of Metastatic Breast Cancer Cell Trafficking in Bone. <i>Clinical Cancer Research</i> , 2006, 12, 1431-1440.	3.2	110
10	A small molecule antagonist of the $\alpha 3$ integrin suppresses MDA-MB-435 skeletal metastasis. <i>Clinical and Experimental Metastasis</i> , 2004, 21, 119-128.	1.7	105
11	Is Selenium a Potential Treatment for Cancer Metastasis?. <i>Nutrients</i> , 2013, 5, 1149-1168.	1.7	105
12	Neuroendocrine-Immune Interactions and Responses to Exercise. <i>Sports Medicine</i> , 2011, 41, 621-639.	3.1	102
13	Immune function is impaired in iron-deficient, homebound, older women. <i>American Journal of Clinical Nutrition</i> , 2004, 79, 516-521.	2.2	92
14	Metastatic breast cancer induces an osteoblast inflammatory response. <i>Experimental Cell Research</i> , 2008, 314, 173-183.	1.2	88
15	Prolactin-Induced Mitogenesis of Lymphocytes from Ovariectomized Rats*. <i>Endocrinology</i> , 1991, 129, 983-990.	1.4	85
16	Dietary selenium supplementation modifies breast tumor growth and metastasis. <i>International Journal of Cancer</i> , 2013, 133, 2054-2064.	2.3	85
17	Osteoblasts are a major source of inflammatory cytokines in the tumor microenvironment of bone metastatic breast cancer. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 1138-1148.	1.2	83
18	The Effect of a 10-Day Space Flight on the Function, Phenotype, and Adhesion Molecule Expression of Splenocytes and Lymph Node Lymphocytes. <i>Experimental Cell Research</i> , 1995, 219, 102-109.	1.2	77

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19	Breast cancer cells induce osteoblast apoptosis: A possible contributor to bone degradation. <i>Journal of Cellular Biochemistry</i> , 2004, 91, 265-276.	1.2	74
20	A Three-Dimensional Osteogenic Tissue Model for the Study of Metastatic Tumor Cell Interactions with Bone. <i>Cancer Research</i> , 2009, 69, 4097-4100.	0.4	71
21	Cytokine production by stimulated mononuclear cells did not change with aging in apparently healthy, well-nourished women. <i>Mechanisms of Ageing and Development</i> , 2001, 122, 1269-1279.	2.2	70
22	Metastatic breast cancer cells suppress osteoblast adhesion and differentiation. <i>Clinical and Experimental Metastasis</i> , 2004, 21, 427-435.	1.7	69
23	The skeleton as a unique environment for breast cancer cells. <i>Clinical and Experimental Metastasis</i> , 2003, 20, 275-284.	1.7	68
24	Dormancy and growth of metastatic breast cancer cells in a bone-like microenvironment. <i>Clinical and Experimental Metastasis</i> , 2015, 32, 335-344.	1.7	60
25	Antiorthostatic suspension as a model for the effects of spaceflight on the immune system. <i>Journal of Leukocyte Biology</i> , 1993, 54, 227-235.	1.5	59
26	Dynamic interaction between breast cancer cells and osteoblastic tissue: Comparison of Two- and Three-dimensional cultures. <i>Journal of Cellular Physiology</i> , 2011, 226, 2150-2158.	2.0	59
27	Selenium modifies the osteoblast inflammatory stress response to bone metastatic breast cancer. <i>Carcinogenesis</i> , 2009, 30, 1941-1948.	1.3	58
28	Prevention of the TPA-mediated down-regulation of protein kinase C. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 94-99.	1.0	57
29	Do Milk-Borne Cytokines and Hormones Influence Neonatal Immune Cell Function?. <i>Journal of Nutrition</i> , 1997, 127, 985S-988S.	1.3	56
30	Variable lymphocyte responses in rats after space flight. <i>Experimental Cell Research</i> , 1992, 202, 125-131.	1.2	53
31	Evidence for protein kinase C independent activation of phospholipase D by phorbol esters in lymphocytes. <i>Biochemical and Biophysical Research Communications</i> , 1990, 171, 955-962.	1.0	49
32	Selenium Deficiency Alters the Lipoxygenase Pathway and Mitogenic Response in Bovine Lymphocytes. <i>Journal of Nutrition</i> , 1992, 122, 2121-2127.	1.3	49
33	Metastatic breast cancer cells colonize and degrade three-dimensional osteoblastic tissue in vitro. <i>Clinical and Experimental Metastasis</i> , 2008, 25, 741-752.	1.7	45
34	Release of cytokines and hemodynamic instability during the reperfusion of a liver graft. <i>Liver Transplantation</i> , 2011, 17, 324-330.	1.3	43
35	Changes in Cytokines of the Bone Microenvironment during Breast Cancer Metastasis. <i>International Journal of Breast Cancer</i> , 2012, 2012, 1-9.	0.6	43
36	Leukocyte adhesion molecule expression during intense resistance exercise. <i>Journal of Applied Physiology</i> , 1998, 84, 1604-1609.	1.2	40

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37	Lymphocyte proliferation in response to acute heavy resistance exercise in women: influence of muscle strength and total work. <i>European Journal of Applied Physiology</i> , 2001, 85, 367-373.	1.2	39
38	Chronic resistance training in women potentiates growth hormone in vivo bioactivity: characterization of molecular mass variants. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E1177-E1187.	1.8	39
39	In Vitro Mimics of Bone Remodeling and the Vicious Cycle of Cancer in Bone. <i>Journal of Cellular Physiology</i> , 2014, 229, 453-462.	2.0	39
40	Role of Megakaryocytes in Breast Cancer Metastasis to Bone. <i>Cancer Research</i> , 2017, 77, 1942-1954.	0.4	38
41	Characterization of protein kinases in mitotic and meiotic cell extracts. <i>FEBS Letters</i> , 1984, 167, 193-198.	1.3	37
42	Immune function did not decline with aging in apparently healthy, well-nourished women. <i>Mechanisms of Ageing and Development</i> , 1999, 112, 43-57.	2.2	37
43	Mitogen and co-mitogen stimulation of lymphocytes inhibited by three Ca ⁺⁺ antagonists. <i>Journal of Cellular Physiology</i> , 1985, 124, 131-136.	2.0	34
44	Milk-borne prolactin and neonatal development. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 1996, 1, 259-269.	1.0	34
45	Extended-Term Culture of Bone Cells in a Compartmentalized Bioreactor. <i>Tissue Engineering</i> , 2006, 12, 3045-3054.	4.9	34
46	Leukocyte β 2-Adrenergic Receptor Expression in Response to Resistance Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1422-1432.	0.2	30
47	An evaluation of the mononuclear cells derived from bovine mammary gland dry secretions using leukocyte antigen specific monoclonal antibodies, light scattering properties and non-specific esterase staining. <i>Veterinary Immunology and Immunopathology</i> , 1990, 25, 177-193.	0.5	28
48	Application of the Dual-Micropipet Technique to the Measurement of Tumor Cell Locomotion. <i>Experimental Cell Research</i> , 1999, 248, 160-171.	1.2	28
49	Osteogenesis in vitro: from pre-osteoblasts to osteocytes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010, 46, 28-35.	0.7	27
50	Localization of osteoblast inflammatory cytokines MCP-1 and VEGF to the matrix of the trabecula of the femur, a target area for metastatic breast cancer cell colonization. <i>Clinical and Experimental Metastasis</i> , 2010, 27, 331-340.	1.7	26
51	Physical Activity Plus Energy Restriction Prevents 4T1.2 Mammary Tumor Progression, MDSC Accumulation, and an Immunosuppressive Tumor Microenvironment. <i>Cancer Prevention Research</i> , 2019, 12, 493-506.	0.7	24
52	Changes in protein kinase C and cAMP-dependent kinase in lymphocytes after treatment with 12-O-tetradecanoylphorbol-13-acetate or concanavalin A: Quantitation of activities with an in situ gel assay. <i>Journal of Cellular Physiology</i> , 1987, 132, 415-427.	2.0	23
53	Prolactin receptor gene expression in rat splenocytes and thymocytes from birth to adulthood. <i>Molecular and Cellular Endocrinology</i> , 1996, 117, 41-52.	1.6	23
54	Maternal Selenium Nutrition and Neonatal Immune System Development. <i>Neonatology</i> , 2002, 82, 122-127.	0.9	22

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55	Inhibition of the mixed lymphocyte proliferative response by phorbol esters. <i>Nucleic Acids and Protein Synthesis</i> , 1978, 517, 246-254.	1.7	20
56	Cytokines secreted by bone-metastatic breast cancer cells alter the expression pattern of f-actin and reduce focal adhesion plaques in osteoblasts through PI3K. <i>Experimental Cell Research</i> , 2005, 310, 270-281.	1.2	20
57	The effect of removal of adherent cells in lectin and allogeneic cell stimulation of bovine lymphocytes. <i>Veterinary Immunology and Immunopathology</i> , 1983, 5, 161-176.	0.5	19
58	Nutritional Status Predicts Primary Subclasses of T Cells and the Lymphocyte Proliferation Response in Healthy Older Women. <i>Journal of Nutrition</i> , 2005, 135, 2644-2650.	1.3	19
59	Plasma Proenkephalin Peptide F and Human B Cell Responses To Exercise Stress in Fit and Unfit Women. <i>Peptides</i> , 1998, 19, 731-738.	1.2	18
60	The effect of donor age on the sensitivity of osteoblasts to the proliferative effects of TGF β ² and 1,25(OH) ₂ vitamin D ₃ . <i>Life Sciences</i> , 2002, 70, 2967-2975.	2.0	18
61	Effects of resistance training on resting immune parameters in women. <i>European Journal of Applied Physiology</i> , 2002, 87, 506-508.	1.2	18
62	Association between plasma cyclic guanosine monophosphate levels and hemodynamic instability during liver transplantation. <i>Liver Transplantation</i> , 2013, 19, 191-198.	1.3	17
63	Three-dimensional in Vitro Model to Study Osteobiology and Osteopathology. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2715-2723.	1.2	16
64	Visualization of protein kinases in lymphocytes stimulated to proliferate with concanavalin A or inhibited with A phorbol ester. <i>Biochemical and Biophysical Research Communications</i> , 1984, 121, 392-399.	1.0	15
65	A microtiter plate assay for protein kinase C. <i>Analytical Biochemistry</i> , 1987, 163, 458-463.	1.1	14
66	Study of Cellular Adhesion with Scanning Acoustic Microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1502-1513.	1.7	14
67	Exercise increases prolactin-receptor expression on human lymphocytes. <i>Journal of Applied Physiology</i> , 2003, 94, 518-524.	1.2	13
68	Glucocorticoid Receptor Expression on Human B Cells in Response to Acute Heavy Resistance Exercise. <i>NeuroImmunoModulation</i> , 2011, 18, 156-164.	0.9	13
69	Iodination of plasma membrane proteins of BHK cells in different growth states. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1974, 352, 38-51.	1.4	12
70	Influence of oral contraceptive use on growth hormone in vivo bioactivity following resistance exercise: Responses of molecular mass variants. <i>Growth Hormone and IGF Research</i> , 2008, 18, 238-244.	0.5	12
71	Pre-osteoblastic MC3T3-E1 cells promote breast cancer growth in bone in a murine xenograft model. <i>Chinese Journal of Cancer</i> , 2011, 30, 189-196.	4.9	12
72	Detection and quantitation of interleukin-2 from individual cells. <i>Journal of Immunological Methods</i> , 1989, 125, 115-124.	0.6	11

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73	A role for CBF β in maintaining the metastatic phenotype of breast cancer cells. <i>Oncogene</i> , 2020, 39, 2624-2637.	2.6	11
74	Characterization of resting and phorbol ester or concanavalin A activated bovine lymph node cells with leukocyte specific monoclonal antibodies. <i>Veterinary Immunology and Immunopathology</i> , 1994, 40, 49-61.	0.5	10
75	Ex-vivo Analysis of the Bone Microenvironment in Bone Metastatic Breast Cancer. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2009, 14, 387-395.	1.0	10
76	Phosphoproteins of the cell surface as generated by endogenous or exogenous proteins kinase: Stability of the ^{32}P -labelled product. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1976, 434, 281-285.	1.7	9
77	Phorbol Ester Circumvents the Need for Macrophages as Well as for Mitogenic Lectins in the Stimulation of Lymphocytes With Wheat Germ Agglutinin or the Calcium Ionophores A23187 or Ionomycin. <i>Journal of Leukocyte Biology</i> , 1986, 40, 511-523.	1.5	9
78	Mitogenic Activity of Snake Venom Lectins. <i>Cell Proliferation</i> , 1986, 19, 557-566.	2.4	9
79	IL-2 mRNA levels and degradation rates change with mode of stimulation and phorbol ester treatment of lymphocytes. <i>Cytokine</i> , 1994, 6, 102-110.	1.4	9
80	Inter- and intra-individual variation in tests of cell-mediated immunity in young and old women. <i>Mechanisms of Ageing and Development</i> , 2003, 124, 619-627.	2.2	9
81	Endogenous membrane phosphorylation increases in serum-stimulated 3T3 cells. <i>Journal of Cellular Physiology</i> , 1979, 99, 349-357.	2.0	8
82	Effect of macrophages on the translocation of protein kinase C in concanavalin a-stimulated lymphocytes. <i>Journal of Cellular Physiology</i> , 1989, 138, 561-567.	2.0	8
83	Proenkephalin peptide F immunoreactivity in different circulatory biocompartments after exercise. <i>Peptides</i> , 2006, 27, 1498-1506.	1.2	8
84	Lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 74-81.	0.2	8
85	The effects of retinoic acid and a tumor promoter, 12-O-tetra-decanoylphorbol-13-acetate, on lymphocyte proliferation. <i>Carcinogenesis</i> , 1982, 3, 409-413.	1.3	7
86	DNA Synthesis and Production of Interleukin 1 by Lymph Node Macrophages in Culture. <i>Journal of Leukocyte Biology</i> , 1986, 39, 63-75.	1.5	7
87	Differential activation and inhibition of lymphocyte proliferation by modulators of protein kinase C: Diacylglycerols, rationally designed activators and inhibitors of protein kinase C. <i>Experimental Cell Research</i> , 1991, 193, 175-182.	1.2	7
88	Prolactin and Prolactin Receptor Expression in Rat, Small Intestine, Intraepithelial Lymphocytes During Neonatal Development. <i>Autoimmunity</i> , 2001, 8, 319-330.	0.6	7
89	[^3H]thymidine incorporation in bovine lymphocytes treated with the tumor promoter, 12-O-tetradecanoyl phorbol-13-acetate. <i>Experimental Cell Research</i> , 1981, 135, 267-276.	1.2	6
90	Responses of proenkephalin Peptide F to aerobic exercise stress in the plasma and white blood cell biocompartments. <i>Peptides</i> , 2013, 42, 118-124.	1.2	6

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91	Bioactive growth hormone in older men and women: It's relationship to immune markers and healthspan. Growth Hormone and IGF Research, 2017, 34, 45-54.	0.5	6
92	Changes in a T-cell subpopulation marker induced by tumor-promoting phorbol esters. Carcinogenesis, 1985, 6, 1435-1440.	1.3	5
93	Induction of suppressor activity by tumor-promoting phorbol esters in primary cultures of lymph node cells. Carcinogenesis, 1987, 8, 357-362.	1.3	5
94	Increased 12-HETE production in bovine lymphocytes during selenium deficiency. Biochemical and Biophysical Research Communications, 1991, 181, 389-395.	1.0	5
95	Cytochalasans and PMA induce IL-2 receptors on CD8+ lymphocytes. Experimental Cell Research, 1992, 202, 303-309.	1.2	5
96	Mechanisms of Activation and Suppression in Rat Nb 2 Lymphoma Cells: A Model for Interactions between Prolactin and the Immune System. Experimental Cell Research, 1995, 218, 567-572.	1.2	5
97	Preferential uptake of antibody targeted calcium phosphosilicate nanoparticles by metastatic triple negative breast cancer cells in co-cultures of human metastatic breast cancer cells plus bone osteoblasts. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 34, 102383.	1.7	5
98	The interaction of [3H]TPA with bovine lymph node lymphocytes in vitro. Chemico-Biological Interactions, 1980, 30, 171-179.	1.7	4
99	Oxalyl thiolester concentrations decreased in lectin and phorbol ester-stimulated lymphocytes. FASEB Journal, 1989, 3, 2415-2419.	0.2	4
100	MODULATION OF LEVELS OF A NEGATIVE TRANSCRIPTION FACTOR FOR IL-2 BY 12-O-TETRADECANOYL PHORBOL-13-ACETATE AND OKADAIC ACID. Cytokine, 1996, 8, 809-816.	1.4	4
101	Production of interleukin-2 mRNA by bovine lymph node lymphocytes in response to concanavalin A, 12-O-tetradecanoylphorbol-13-acetate, and ionomycin. Veterinary Immunology and Immunopathology, 1992, 30, 359-372.	0.5	3
102	The S-Oxalin, N-Acetyl-S-oxalylcysteamine, Inhibits Lymphocyte Proliferation, IL-2 Production and Utilization. Biochemical and Biophysical Research Communications, 1996, 222, 505-511.	1.0	3
103	Inhibition of Proliferation and of IL-2 Production and Utilization in Lymphocytes by S-Oxalylglutathione. Experimental Cell Research, 1996, 225, 162-170.	1.2	2
104	The isolation and properties of the dimeric subunit of concanavalin A. The Protein Journal, 2000, 19, 353-359.	1.1	2
105	[27] Cell water viscosity. Methods in Enzymology, 1986, 127, 360-369.	0.4	1
106	Prolactin-immune interactions in carcinogen-induced rat mammary tumors. Endocrine Research, 1994, 20, 395-412.	0.6	1
107	A bone-on-a-chip microdevice for long-term spontaneous 3D bone tissue formation and cancer bone metastasis. , 2017, , .		1
108	Osteoblast adhesion of breast cancer cells with scanned image microscopy. , 2004, , .		0

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109	The Influence of Metastatic Breast Cancer on the Bone Microenvironment. , 2011, , 347-368.		0
110	Comparison of acute supplementation with whey, soy or carbohydrate on lymphocyte responses to resistance exercise. FASEB Journal, 2013, 27, lb761.	0.2	0