Silvia Colucci

List of Publications by Year
in descending order

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122 papers	6,242 citations	53660 45 h-index	76769 74 g-index
124 all docs	124 docs citations	124 times ranked	7202 citing authors

#	Article	IF	Citations
1	The myokine irisin increases cortical bone mass. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12157-12162.	3.3	372
2	Myeloma cells block RUNX2/CBFA1 activity in human bone marrow osteoblast progenitors and inhibit osteoblast formation and differentiation. Blood, 2005, 106, 2472-2483.	0.6	289
3	Oxytocin is an anabolic bone hormone. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7149-7154.	3.3	223
4	Osteoclast cytosolic calcium, regulated by voltage-gated calcium channels and extracellular calcium, controls podosome assembly and bone resorption.. Journal of Cell Biology, 1990, 111, 2543-2552.	2.3	220
5	Periodontal Disease: Linking the Primary Inflammation to Bone Loss. Clinical and Developmental Immunology, 2013, 2013, 1-7.	3.3	215
6	Hepatocyte growth factor is a coupling factor for osteoclasts and osteoblasts in vitro.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7644-7648.	3.3	202
7	Osteocalcin induces chemotaxis, secretion of matrix proteins, and calcium-mediated intracellular signaling in human osteoclast-like cells.. Journal of Cell Biology, 1994, 127, 1149-1158.	2.3	168
8	Irisin Enhances Osteoblast DifferentiationIn Vitro. International Journal of Endocrinology, 2014, 2014, 1-8.	0.6	161
9	Synthesis, analytical characterization, and osteoblast adhesion properties on RGD-grafted polypyrrole coatings on titanium substrates. Journal of Biomaterials Science, Polymer Edition, 2000, 11, 1073-1083.	1.9	160
10	T cells support osteoclastogenesis in an in vitro model derived from human multiple myeloma bone disease: the role of the OPG/TRAIL interaction. Blood, 2004, 104, 3722-3730.	0.6	138
11	Regulation of bone remodeling by vasopressin explains the bone loss in hyponatremia. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18644-18649.	3.3	120
12	Increased Osteoclast Activity in the Presence of Increased Homocysteine Concentrations. Clinical Chemistry, 2005, 51, 2348-2353.	1.5	113
13	Myeloma cells suppress osteoblasts through sclerostin secretion. Blood Cancer Journal, 2011, 1, e27-e27.	2.8	113
14	Irisin and musculoskeletal health. Annals of the New York Academy of Sciences, 2017, 1402, 5-9.	1.8	112
15	Microgravity during spaceflight directly affects in vitro osteoclastogenesis and bone resorption. FASEB Journal, 2009, 23, 2549-2554.	0.2	106
16	Mechanisms of spontaneous osteoclastogenesis in cancer with bone involvement. FASEB Journal, 2005, 19, 1-24.	0.2	88
17	Lymphocytes and synovial fluid fibroblasts support osteoclastogenesis through RANKL, TNFÎ±, and IL-7 in anin vitromodel derived from human psoriatic arthritis. Journal of Pathology, 2007, 212, 47-55.	2.1	86
18	Dental pulp stem cells: osteogenic differentiation and gene expression. Annals of the New York Academy of Sciences, 2011, 1237, 47-52.	1.8	82

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19	Irisin Prevents Disuseâ€induced Osteocyte Apoptosis. Journal of Bone and Mineral Research, 2020, 35, 766-775.	3.1	82
20	Alendronate Reduces Adhesion of Human Osteoclast-like Cells to Bone and Bone Protein-Coated Surfaces. Calcified Tissue International, 1998, 63, 230-235.	1.5	81
21	T Cells Support Osteoclastogenesis in an In Vitro Model Derived From Human Periodontitis Patients. Journal of Periodontology, 2005, 76, 1675-1680.	1.7	78
22	Sclerostin is overexpressed by plasma cells from multiple myeloma patients. Annals of the New York Academy of Sciences, 2011, 1237, 19-23.	1.8	77
23	Aortic valvular interstitial cells apoptosis and calcification are mediated by TNF-related apoptosis-inducing ligand. International Journal of Cardiology, 2013, 169, 296-304.	0.8	77
24	Osteogenic differentiation of mesenchymal stem cells from dental bud: Role of integrins and cadherins. Stem Cell Research, 2015, 15, 618-628.	0.3	70
25	High Sclerostin and Dickkopf-1 (DKK-1) Serum Levels in Children and Adolescents With Type 1 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 1174-1181.	1.8	67
26	Osteogenic Differentiation of Dental Follicle Stem Cells. International Journal of Medical Sciences, 2012, 9, 480-487.	1.1	65
27	Gorham-Stout Syndrome: A Monocyte-Mediated Cytokine Propelled Disease. Journal of Bone and Mineral Research, 2005, 21, 207-218.	3.1	64
28	Osteoblast regulation via ligand-activated nuclear trafficking of the oxytocin receptor. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16502-16507.	3.3	63
29	Localization and possible role of two different alpha v beta 3 integrin conformations in resting and resorbing osteoclasts. Journal of Cell Science, 2002, 115, 2919-2929.	1.2	63
30	IL-7 Up-Regulates TNF-Î±-Dependent Osteoclastogenesis in Patients Affected by Solid Tumor. PLoS ONE, 2006, 1, e124.	1.1	62
31	FNDC5/Irisin System in Neuroinflammation and Neurodegenerative Diseases: Update and Novel Perspective. International Journal of Molecular Sciences, 2021, 22, 1605.	1.8	61
32	Human osteoclasts express oxytocin receptor. Biochemical and Biophysical Research Communications, 2002, 297, 442-445.	1.0	58
33	Response of Human Osteoblasts to Polymethylmetacrylate In Vitro. Calcified Tissue International, 1998, 62, 362-365.	1.5	57
34	Activation of Î±vÎ²3Integrin on Human Osteoclast-like Cells Stimulates Adhesion and Migration in Response to Osteopontin. Biochemical and Biophysical Research Communications, 1998, 249, 522-525.	1.0	57
35	Breast Cancer Cell Line MDA-231 Stimulates Osteoclastogenesis and Bone Resorption in Human Osteoclasts. Biochemical and Biophysical Research Communications, 2000, 270, 1097-1100.	1.0	57
36	Osteoporosis and obesity: Role of Wnt pathway in human and murine models. World Journal of Orthopedics, 2014, 5, 242.	0.8	56

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37	Crosstalk Between Muscle and Bone Via the Muscle-Myokine Irisin. Current Osteoporosis Reports, 2016, 14, 132-137.	1.5	56
38	Rat Hindlimb Unloading by Tail Suspension Reduces Osteoblast Differentiation, Induces IL-6 Secretion, and Increases Bone Resorption in Ex Vivo Cultures. Calcified Tissue International, 2002, 70, 176-185.	1.5	54
39	Functions of vasopressin and oxytocin in bone mass regulation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 164-169.	3.3	54
40	The death receptor DR5 is involved in TRAIL-mediated human osteoclast apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2007, 12, 1623-1632.	2.2	53
41	Osteoclastogenesis and arthritis. Clinical and Experimental Medicine, 2011, 11, 137-145.	1.9	52
42	Impaired bone remodeling in children with osteogenesis imperfecta treated and untreated with bisphosphonates: the role of DKK1, RANKL, and TNF-Î±. Osteoporosis International, 2016, 27, 2355-2365.	1.3	52
43	LIGHT/TNFSF14 increases osteoclastogenesis and decreases osteoblastogenesis in multiple myeloma-bone disease. Oncotarget, 2014, 5, 12950-12967.	0.8	52
44	Adhesion Properties and Integrin Expression of Cultured Human Osteoclast-like Cells. Experimental Cell Research, 1994, 212, 209-218.	1.2	47
45	Regulated production of the pituitary hormone oxytocin from murine and human osteoblasts. Biochemical and Biophysical Research Communications, 2011, 411, 512-515.	1.0	47
46	Immediate cell signal by bone-related peptides in human osteoclast-like cells. American Journal of Physiology - Cell Physiology, 1993, 265, C1289-C1297.	2.1	46
47	Monoclonal antibodies for treating osteoporosis. Expert Opinion on Biological Therapy, 2018, 18, 149-157.	1.4	45
48	Irisin serum levels are positively correlated with bone mineral status in a population of healthy children. Pediatric Research, 2019, 85, 484-488.	1.1	45
49	Osteoclastogenesis in Children with 21-Hydroxylase Deficiency on Long-Term Glucocorticoid Therapy: The Role of Receptor Activator of Nuclear Factor-Î²B Ligand/Osteoprotegerin Imbalance. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 2269-2276.	1.8	44
50	Mechanisms Involved in Childhood Obesity-Related Bone Fragility. Frontiers in Endocrinology, 2019, 10, 269.	1.5	43
51	New model for bone resorption study in vitro: Human osteoclast-like cells from giant cell tumors of bone. Journal of Bone and Mineral Research, 1994, 9, 1013-1020.	3.1	42
52	High dickkopf-1 levels in sera and leukocytes from children with 21-hydroxylase deficiency on chronic glucocorticoid treatment. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E546-E554.	1.8	41
53	Inflammation induces osteoclast differentiation from peripheral mononuclear cells in chronic kidney disease patients: crosstalk between the immune and bone systems. Nephrology Dialysis Transplantation, 2018, 33, 65-75.	0.4	41
54	A Novel Interplay Between Irisin and PTH: From Basic Studies to Clinical Evidence in Hyperparathyroidism. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 3088-3096.	1.8	41

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55	Irisin and Bone: From Preclinical Studies to the Evaluation of Its Circulating Levels in Different Populations of Human Subjects. Cells, 2019, 8, 451.	1.8	41
56	Osteoblast Apoptosis in Periodontal Disease: Role of TNF-Related Apoptosis-Inducing Ligand. International Journal of Immunopathology and Pharmacology, 2009, 22, 95-103.	1.0	40
57	L-Carnitine and Isovaleryl L-Carnitine Fumarate Positively Affect Human Osteoblast Proliferation and Differentiation In Vitro. Calcified Tissue International, 2005, 76, 458-465.	1.5	39
58	Glucocorticoid-Induced Osteoporosis in Children with 21-Hydroxylase Deficiency. BioMed Research International, 2013, 2013, 1-8.	0.9	39
59	Soluble decoy receptor 3 modulates the survival and formation of osteoclasts from multiple myeloma bone disease patients. Leukemia, 2009, 23, 2139-2146.	3.3	38
60	Irisin prevents microgravityâ€induced impairment of osteoblast differentiation in vitro during the space flight CRSâ€14 mission. FASEB Journal, 2020, 34, 10096-10106.	0.2	38
61	Binding of osteopontin to the osteoclast integrin Î±vÎ²3. Osteoporosis International, 1993, 3, 132-135.	1.3	35
62	Bone Fragility in Turner Syndrome: Mechanisms and Prevention Strategies. Frontiers in Endocrinology, 2016, 7, 34.	1.5	35
63	FSH and TSH in the Regulation of Bone Mass: The Pituitary/Immune/Bone Axis. Clinical and Developmental Immunology, 2013, 2013, 1-6.	3.3	33
64	Osteocalcin synthesis by human osteoblasts from normal and osteoarthritic bone after vitamin D3 stimulation. Clinical Rheumatology, 2004, 23, 490-495.	1.0	31
65	The Role of TNF-Î±and TNF Superfamily Members in the Pathogenesis of Calcific Aortic Valvular Disease. Scientific World Journal, The, 2013, 2013, 1-10.	0.8	31
66	Mechanisms of enhanced osteoclastogenesis in girls and young women with Turner's Syndrome. Bone, 2015, 81, 228-236.	1.4	31
67	LIGHT/TNFSF14 Promotes Osteolytic Bone Metastases in Nonâ€small Cell Lung Cancer Patients. Journal of Bone and Mineral Research, 2020, 35, 671-680.	3.1	31
68	Osteoblast-osteoclast relationships in bone resorption: Osteoblasts enhance osteoclast activity in a serum-free co-culture system. Biochemical and Biophysical Research Communications, 1991, 179, 634-640.	1.0	29
69	An update on the role of RANKLâ€“RANK/osteoprotegerin and WNT-ÃŸ-catenin signaling pathways in pediatric diseases. World Journal of Pediatrics, 2019, 15, 4-11.	0.8	29
70	Alteration of activity and survival of osteoblasts obtained from human periodontitis patients: role of TRAIL. Journal of Biological Regulators and Homeostatic Agents, 2007, 21, 105-14.	0.7	29
71	Osteogenic properties of human dental pulp stem cells. Journal of Biological Regulators and Homeostatic Agents, 2010, 24, 167-75.	0.7	29
72	Myokines and Osteokines in the Pathogenesis of Muscle and Bone Diseases. Current Osteoporosis Reports, 2020, 18, 401-407.	1.5	28

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73	A new titanium biofunctionalized interface based on poly(pyrrole-3-acetic acid) coating: proliferation of osteoblast-like cells and future perspectives. Journal of Materials Science: Materials in Medicine, 2007, 18, 1781-1789.	1.7	26
74	Histopathology of Spontaneous Brain Herniations Into the Middle Ear. Acta Oto-Laryngologica, 1992, 112, 328-333.	0.3	25
75	Extracellular Ca2+ sensing is modulated by pH in human osteoclast-like cells in vitro. American Journal of Physiology - Cell Physiology, 1994, 267, C961-C968.	2.1	25
76	Gelatinase Levels in Male and Female Breast Cancer. Biochemical and Biophysical Research Communications, 2002, 292, 161-166.	1.0	25
77	Neridronate and human osteoblasts in normal, osteoporotic and osteoarthritic subjects. Clinical Rheumatology, 2005, 24, 527-534.	1.0	24
78	Effects of Sweet Cherry Polyphenols on Enhanced Osteoclastogenesis Associated With Childhood Obesity. Frontiers in Immunology, 2019, 10, 1001.	2.2	24
79	Genotypeâ€“phenotype correlation in Juvenile Paget disease: role of molecular alterations of the TNFRSF11B gene. Endocrine, 2012, 42, 266-271.	1.1	23
80	Skeleton and Glucose Metabolism: A Bone-Pancreas Loop. International Journal of Endocrinology, 2015, 2015, 1-7.	0.6	23
81	Osteoblasts Display Different Responsiveness to TRAIL-Induced Apoptosis During Their Differentiation Process. Cell Biochemistry and Biophysics, 2013, 67, 1127-1136.	0.9	21
82	Sclerostin stimulates angiogenesis in human endothelial cells. Bone, 2017, 101, 26-36.	1.4	20
83	Mechanisms of Enhanced Osteoclastogenesis in Alkaptonuria. American Journal of Pathology, 2018, 188, 1059-1068.	1.9	20
84	LIGHT/TNFSF14 as a New Biomarker of Bone Disease in Multiple Myeloma Patients Experiencing Therapeutic Regimens. Frontiers in Immunology, 2018, 9, 2459.	2.2	20
85	The Myokine Irisin Promotes Osteogenic Differentiation of Dental Bud-Derived MSCs. Biology, 2021, 10, 295.	1.3	20
86	l-Carnitine Fumarate and Isovaleryl-l-Carnitine Fumarate Accelerate the Recovery of Bone Volume/Total Volume Ratio after Experimetally Induced Osteoporosis in Pregnant Mice. Calcified Tissue International, 2008, 82, 221-228.	1.5	19
87	Interleukin-7 production by B lymphocytes affects the T cell-dependent osteoclast formation in an in vitro model derived from human periodontitis patients. International Journal of Immunopathology and Pharmacology, 2005, 18, 13-9.	1.0	18
88	Deletion of the Transcription Factor PGC-1Î± in Mice Negatively Regulates Bone Mass. Calcified Tissue International, 2018, 103, 638-652.	1.5	17
89	Integrated in vitro approaches to assess the bioaccessibility and bioavailability of silicon-biofortified leafy vegetables and preliminary effects on bone. In Vitro Cellular and Developmental Biology - Animal, 2017, 53, 217-224.	0.7	16
90	Impairment of Bone Remodeling in LIGHT/TNFSF14-Deficient Mice. Journal of Bone and Mineral Research, 2018, 33, 704-719.	3.1	16

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91	Human osteoclast-like cells selectively recognize laminin isoforms, an event that induces migration and activates Ca2+ mediated signals. Journal of Cell Science, 1996, 109, 1527-1535.	1.2	16
92	LIGHT/TNFSF14 regulates estrogen deficiencyâ€induced bone loss. Journal of Pathology, 2020, 250, 440-451.	2.1	15
93	The Role of OPG/TRAIL Complex in Multiple Myeloma: The OPG/TRAIL Complex in an In Vitro Osteoclastogenesis Model Derived From Human Multiple Myeloma-Bone Disease. Annals of the New York Academy of Sciences, 2006, 1068, 334-340.	1.8	14
94	The formation of osteoclasts in multiple myeloma bone disease patients involves the secretion of soluble decoy receptor 3. Annals of the New York Academy of Sciences, 2010, 1192, 298-302.	1.8	14
95	TRAIL effect on osteoclast formation in physiological and pathological conditions. Frontiers in Bioscience - Elite, 2011, E3, 1154-1161.	0.9	14
96	Retinoic Acid Induces Cell Proliferation and Modulates Gelatinases Activity in Human Osteoclast-like Cell Lines. Biochemical and Biophysical Research Communications, 1996, 227, 47-52.	1.0	13
97	High expression of TRAIL by osteoblastic differentiated dental pulp stem cells affects myeloma cell viability. Oncology Reports, 2018, 39, 2031-2039.	1.2	13
98	TRAIL Is Involved in Human Osteoclast Apoptosis. Annals of the New York Academy of Sciences, 2007, 1116, 316-322.	1.8	12
99	The Novel Role of PGC1Î± in Bone Metabolism. International Journal of Molecular Sciences, 2021, 22, 4670.	1.8	12
100	The genetic background and vitamin D supplementation can affect irisin levels in Praderâ€“Willi syndrome. Journal of Endocrinological Investigation, 2021, 44, 2261-2271.	1.8	11
101	Synovial Fluid Fibroblasts and Lymphocytes Support the Osteoclastogenesis in Human Psoriatic Arthritis. Annals of the New York Academy of Sciences, 2007, 1117, 159-164.	1.8	10
102	Normal and osteoporotic human osteoblast behaviour after 1,25-dihydroxy-vitamin D3 stimulation. Rheumatology International, 2009, 29, 667-672.	1.5	10
103	Activation of the receptor activator of the nuclear factor-ÂB ligand pathway during coronary bypass surgery: comparison between on- and off-pump coronary artery bypass surgery procedures. European Journal of Cardio-thoracic Surgery, 2013, 44, e141-e147.	0.6	10
104	CELLULAR MECHANISMS OF BONE REGENERATION: ROLE OF WNT-1 IN BONE-MUSCLE INTERACTION DURING PHYSICAL ACTIVITY39. Journal of Biological Regulators and Homeostatic Agents, 2015, 29, 39-45.	0.7	10
105	Pathology of Idiopathic Encephaloceles into the Middle Ear. Orl, 2002, 64, 73-79.	0.6	8
106	Human Myeloma Cell Lines Induce Osteoblast Downregulation of CD99 Which Is Involved in Osteoblast Formation and Activity. Journal of Immunology Research, 2015, 2015, 1-13.	0.9	6
107	Shedding â€œLIGHTâ€•on the Link between Bone and Fat in Obese Children and Adolescents. International Journal of Molecular Sciences, 2020, 21, 4739.	1.8	6
108	Human Osteoclast-Like Cells from Giant Cell Tumors of Bone: A New Tool for Investigating Bone Resorption and Osteoclast Biology. Calcified Tissue International, 1995, 56, S24-S24.	1.5	5

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109	Osteotropic Cancers: From Primary Tumor to Bone. Clinical Reviews in Bone and Mineral Metabolism, 2013, 11, 94-102.	1.3	5
110	Osteoclastogenic Potential of Peripheral Blood Mononuclear Cells in Cleidocranial Dysplasia. International Journal of Medical Sciences, 2014, 11, 356-364.	1.1	5
111	Bone Matrix Proteins and Mineralization Process. , 2014, , 15-25.		5
112	Immunomodulation of Multiple Myeloma Bone Disease. Clinical Reviews in Bone and Mineral Metabolism, 2009, 7, 293-300.	1.3	4
113	Biological Characteristics of Dental Stem Cells for Tissue Engineering. Key Engineering Materials, 2013, 541, 51-59.	0.4	4
114	Treatment of osteoporosis in children with glucocorticoid-treated diseases. Expert Review of Endocrinology and Metabolism, 2014, 9, 525-534.	1.2	4
115	Myeloma Cells Induce Osteoblast Suppression through Sclerostin Secretion. Blood, 2010, 116, 2961-2961.	0.6	4
116	Anatomy and Physiology of Skeletal Tissue: The Bone Cells. , 2018, , 1-23.		2
117	Experimental Model for Studying the Involvement of Regulatory Cytotoxic T Cells in Bone Resorption. Methods in Molecular Biology, 2014, 1186, 269-281.	0.4	2
118	The effects of bone pÃ¢tÃ© on human osteoblasts cell cultures. European Archives of Oto-Rhino-Laryngology, 2016, 273, 1399-1404.	0.8	1
119	Mechanisms of Altered Bone Remodeling in Multiple Myeloma. Clinical Reviews in Bone and Mineral Metabolism, 2017, 15, 151-161.	1.3	1
120	The Osteoclast Cytoskeleton. Advances in Organ Biology, 1998, 5, 347-357.	0.1	0
121	Immunoregulation of Osteoclast Differentiation in Multiple Myeloma Bone Disease. , 2010, , 67-75.		0
122	Human osteoclast-like cells selectively recognize laminin isoforms, an event that induces migration and activates Ca2+ mediated signals. Journal of Cell Science, 1996, 109 (Pt 6), 1527-35.	1.2	0