

# Enrico Lucarelli

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,745  
citations

136885

32  
h-index

133188

59  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5955  
citing authors

#	ARTICLE	IF	CITATIONS
1	Platelet-derived growth factors enhance proliferation of human stromal stem cells. <i>Biomaterials</i> , 2003, 24, 3095-3100.	5.7	351
2	Induction of TrkB by retinoic acid mediates biologic responsiveness to BDNF and differentiation of human neuroblastoma cells. <i>Neuron</i> , 1993, 11, 321-331.	3.8	311
3	CTLA-4 is constitutively expressed on tumor cells and can trigger apoptosis upon ligand interaction. <i>International Journal of Cancer</i> , 2005, 117, 538-550.	2.3	275
4	Altered pre-lamin A processing is a common mechanism leading to lipodystrophy. <i>Human Molecular Genetics</i> , 2005, 14, 1489-1502.	1.4	203
5	Mesenchymal Stem/Stromal Cells: A New 'Cells as Drugs' Paradigm. Efficacy and Critical Aspects in Cell Therapy. <i>Current Pharmaceutical Design</i> , 2013, 19, 2459-2473.	0.9	144
6	Mesenchymal stem/stromal cell extracellular vesicles: From active principle to next generation drug delivery system. <i>Journal of Controlled Release</i> , 2017, 262, 104-117.	4.8	121
7	Stromal Stem Cells and Platelet-Rich Plasma Improve Bone Allograft Integration. <i>Clinical Orthopaedics and Related Research</i> , 2005, &NA;, 62-68.	0.7	113
8	Ultrastructural Characteristics of Human Mesenchymal Stromal (Stem) Cells Derived from Bone Marrow and Term Placenta. <i>Ultrastructural Pathology</i> , 2007, 31, 23-31.	0.4	109
9	A recently developed bifacial platelet-rich fibrin matrix. , 2010, 20, 13-23.		103
10	The Posterior Iliac Crest Outperforms the Anterior Iliac Crest When Obtaining Mesenchymal Stem Cells from Bone Marrow. <i>Journal of Bone and Joint Surgery - Series A</i> , 2013, 95, 1101-1107.	1.4	84
11	Mesenchymal stem cells as delivery vehicle of porphyrin loaded nanoparticles: Effective photoinduced in vitro killing of osteosarcoma. <i>Journal of Controlled Release</i> , 2013, 168, 225-237.	4.8	81
12	Ex Vivo Expanded Mesenchymal Stromal Cell Minimal Quality Requirements for Clinical Application. <i>Stem Cells and Development</i> , 2015, 24, 677-685.	1.1	79
13	A novel antagonist of CXCR4 prevents bone marrow-derived mesenchymal stem cell-mediated osteosarcoma and hepatocellular carcinoma cell migration and invasion. <i>Cancer Letters</i> , 2016, 370, 100-107.	3.2	74
14	Effect of Mesenchymal Stem Cells and Platelet-Rich Plasma on the Healing of Standardized Bone Defects in the Alveolar Ridge: A Comparative Histomorphometric Study in Minipigs. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 265-272.	0.5	73
15	Inhibition of Bone Marrow-Derived Mesenchymal Stem Cells Homing Towards Triple-Negative Breast Cancer Microenvironment Using an Anti-PDGFR <sup>2</sup> Aptamer. <i>Theranostics</i> , 2017, 7, 3595-3607.	4.6	69
16	Dose-dependent effect of adipose-derived adult stem cells on vertical bone regeneration in rabbit calvarium. <i>Biomaterials</i> , 2010, 31, 3527-3535.	5.7	68
17	Hybrid Printing Using Cellulose Nanocrystals Reinforced GelMA/HAMA Hydrogels for Improved Structural Integration. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001410.	3.9	60
18	Prognostic Value of CCN3 in Osteosarcoma. <i>Clinical Cancer Research</i> , 2008, 14, 701-709.	3.2	58

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19	Mesenchymal stem cells and platelet-rich plasma enhance bone formation in sinus grafting: a histomorphometric study in minipigs. <i>Journal of Clinical Periodontology</i> , 2008, 35, 539-546.	2.3	55
20	Selective Regulation of TrkA and TrkB Receptors by Retinoic Acid and Interferon- $\beta$ in Human Neuroblastoma Cell Lines. <i>Journal of Biological Chemistry</i> , 1995, 270, 24725-24731.	1.6	53
21	Activation of trk-A but not trk-B signal transduction pathway inhibits growth of Neuroblastoma cells. <i>European Journal of Cancer</i> , 1997, 33, 2068-2070.	1.3	48
22	Bone reconstruction of large defects using bone marrow derived autologous stem cells. <i>Transfusion and Apheresis Science</i> , 2004, 30, 169-174.	0.5	48
23	Comparison of alternative mesenchymal stem cell sources for cell banking and musculoskeletal advanced therapies. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 1418-1430.	1.2	46
24	Multi-image based method to correct vignetting effect in light microscopy images. <i>Journal of Microscopy</i> , 2012, 248, 6-22.	0.8	44
25	Characterization of Human Mesenchymal Stem Cells from Ewing Sarcoma Patients. Pathogenetic Implications. <i>PLoS ONE</i> , 2014, 9, e85814.	1.1	38
26	Protein kinase C isoenzymes in human neuroblasts involvement of PKC $\mu$ in cell differentiation. <i>FEBS Letters</i> , 1993, 322, 120-124.	1.3	37
27	CD99 Drives Terminal Differentiation of Osteosarcoma Cells by Acting as a Spatial Regulator of ERK 1/2. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1295-1309.	3.1	37
28	Mesenchymal stromal cells mediated delivery of photoactive nanoparticles inhibits osteosarcoma growth in vitro and in a murine in vivo ectopic model. <i>Journal of Experimental and Clinical Cancer Research</i> , 2020, 39, 40.	3.5	37
29	Secreted adiponectin as a marker to evaluate in vitro the adipogenic differentiation of human mesenchymal stromal cells. <i>Cytotherapy</i> , 2014, 16, 1476-1485.	0.3	35
30	Fabrication of Innovative Silk/Alginate Microcarriers for Mesenchymal Stem Cell Delivery and Tissue Regeneration. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1829.	1.8	35
31	In Vitro Effectiveness of Microspheres Based on Silk Sericin and <i>Chlorella vulgaris</i> or <i>Arthrospira platensis</i> for Wound Healing Applications. <i>Materials</i> , 2017, 10, 983.	1.3	35
32	Efficient isolation and enrichment of mesenchymal stem cells from bone marrow. <i>Cytotherapy</i> , 2012, 14, 686-693.	0.3	34
33	Functionalized Keratin as Nanotechnology-Based Drug Delivery System for the Pharmacological Treatment of Osteosarcoma. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3670.	1.8	34
34	Different Sources of Mesenchymal Stem Cells for Tissue Regeneration: A Guide to Identifying the Most Favorable One in Orthopedics and Dentistry Applications. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6356.	1.8	34
35	OP-1 application in bone allograft integration: preliminary results in sheep experimental surgery. <i>Injury</i> , 2008, 39, S65-S72.	0.7	33
36	Mesenchymal stem cells from patients to assay bone graft substitutes. <i>Journal of Cellular Physiology</i> , 2013, 228, 1229-1237.	2.0	33

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37	Autocrine signals increase ovine mesenchymal stem cells migration through Aquaporin $\alpha$ 1 and CXCR4 overexpression. <i>Journal of Cellular Physiology</i> , 2018, 233, 6241-6249.	2.0	33
38	Troglitazone affects survival of human osteosarcoma cells. <i>International Journal of Cancer</i> , 2002, 98, 344-351.	2.3	30
39	NGF activation of TrkA decreases N-myc expression via MAPK path leading to a decrease in neuroblastoma cell number. <i>Oncogene</i> , 2004, 23, 1522-1530.	2.6	29
40	Automated image mosaics by non $\alpha$ automated light microscopes: the <i>MicroMos</i> software tool. <i>Journal of Microscopy</i> , 2013, 252, 226-250.	0.8	29
41	Mesenchymal stromal cells and their secreted extracellular vesicles as therapeutic tools for COVID-19 pneumonia?. <i>Journal of Controlled Release</i> , 2020, 325, 135-140.	4.8	28
42	Osteoblasts from a mandibuloacral dysplasia patient induce human blood precursors to differentiate into active osteoclasts. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 711-718.	1.8	27
43	Mesenchymal stem cells and platelet lysate in fibrin or collagen scaffold promote non $\alpha$ cemented hip prosthesis integration. <i>Journal of Orthopaedic Research</i> , 2011, 29, 961-968.	1.2	27
44	Chlorin e6 keratin nanoparticles for photodynamic anticancer therapy. <i>RSC Advances</i> , 2016, 6, 33910-33918.	1.7	27
45	Development of near-infrared photoactivable phthalocyanine-loaded nanoparticles to kill tumor cells: An improved tool for photodynamic therapy of solid cancers. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1885-1897.	1.7	27
46	Long term morphological characterization of mesenchymal stromal cells 3D spheroids built with a rapid method based on entry-level equipment. <i>Cytotechnology</i> , 2016, 68, 2479-2490.	0.7	26
47	Extracellular matrix and $\alpha$ 5 $\beta$ 1 integrin signaling control the maintenance of bone formation capacity by human adipose-derived stromal cells. <i>Scientific Reports</i> , 2017, 7, 44398.	1.6	26
48	A combined evaluation of biochemical and morphological changes during human neuroblastoma cell differentiation. <i>Cellular and Molecular Neurobiology</i> , 1992, 12, 225-240.	1.7	23
49	Fluorescent labeling of human mesenchymal stem cells by thiophene fluorophores conjugated to a lipophilic carrier. <i>Chemical Communications</i> , 2010, 46, 7948.	2.2	23
50	Protein kinase B/AKT isoform 2 drives migration of human mesenchymal stem cells. <i>International Journal of Oncology</i> , 2013, 42, 118-126.	1.4	23
51	Osteogenic Protein-1 Associated with Mesenchymal Stem Cells Promote Bone Allograft Integration. <i>Tissue Engineering - Part A</i> , 2010, 16, 2967-2976.	1.6	20
52	A new holistic 3D non-invasive analysis of cellular distribution and motility on fibroin-alginate microcarriers using light sheet fluorescent microscopy. <i>PLoS ONE</i> , 2017, 12, e0183336.	1.1	19
53	Nonunion fracture healing: Evaluation of effectiveness of demineralized bone matrix and mesenchymal stem cells in a novel sheep bone nonunion model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1972-1985.	1.3	19
54	Detection of mesenchymal stem cells senescence by prelamin A accumulation at the nuclear level. <i>SpringerPlus</i> , 2016, 5, 1427.	1.2	18

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55	Innovative Options for Bone Metastasis Treatment: An Extensive Analysis on Biomaterials-Based Strategies for Orthopedic Surgeons. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 589964.	2.0	18
56	Seven BMPs and all their receptors are simultaneously expressed in osteosarcoma cells. <i>International Journal of Oncology</i> , 2002, 20, 143.	1.4	15
57	Physiological formation of fluorescent and conductive protein microfibers in live fibroblasts upon spontaneous uptake of biocompatible fluorophores. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1057.	0.6	15
58	Thiophene-Based Compounds as Fluorescent Tags to Study Mesenchymal Stem Cell Uptake and Release of Taxanes. <i>Bioconjugate Chemistry</i> , 2014, 25, 649-655.	1.8	15
59	Rapid and efficient magnetization of mesenchymal stem cells by dendrimer-functionalized magnetic nanoparticles. <i>Nanomedicine</i> , 2016, 11, 1519-1534.	1.7	15
60	CXCR4 in human osteosarcoma malignant progression. The response of osteosarcoma cell lines to the fully human CXCR4 antibody MDX1338. <i>Journal of Bone Oncology</i> , 2019, 17, 100239.	1.0	12
61	In vivo and in vitro inhibition of osteosarcoma growth by the pan Bcl-2 inhibitor AT-101. <i>Investigational New Drugs</i> , 2020, 38, 675-689.	1.2	11
62	In vitro biosafety profile evaluation of multipotent mesenchymal stem cells derived from the bone marrow of sarcoma patients. <i>Journal of Translational Medicine</i> , 2014, 12, 95.	1.8	10
63	Analysis of the Karyotype of Expanded Human Adipose-Derived Stem Cells for Bone Reconstruction of the Maxillo-Facial Region. <i>International Journal of Immunopathology and Pharmacology</i> , 2013, 26, 3-9.	1.0	9
64	Preparation and Application of an Innovative Thrombocyte/Leukocyte-Enriched Plasma to Promote Tissue Repair in Chelonians. <i>PLoS ONE</i> , 2015, 10, e0122595.	1.1	9
65	Selective sensitiveness of mesenchymal stem cells to shock waves leads to anticancer effect in human cancer cell co-cultures. <i>Life Sciences</i> , 2017, 173, 28-35.	2.0	8
66	Trends in Bone Metastasis Modeling. <i>Cancers</i> , 2020, 12, 2315.	1.7	8
67	A rapid method for obtaining mesenchymal stem cells and platelets from bone marrow aspirate. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 483-492.	1.3	7
68	Two Beats One: Osteosarcoma Therapy with Light-Activated and Chemo-Releasing Keratin Nanoformulation in a Preclinical Mouse Model. <i>Pharmaceutics</i> , 2022, 14, 677.	2.0	7
69	Historical review of bone prefabrication. <i>La Chirurgia Degli Organi Di Movimento</i> , 2008, 92, 73-78.	0.2	6
70	Cell growth inhibition and apoptotic effect of the rexinoid 6-OH-11-O-hydroxyphenantrene on human osteosarcoma and mesenchymal stem cells. <i>Toxicology in Vitro</i> , 2012, 26, 142-149.	1.1	6
71	Semi-quantitative monitoring of confluence of adherent mesenchymal stromal cells on calcium-phosphate granules by using widefield microscopy images. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2395-2410.	1.7	6
72	Is percutaneous injection of bone marrow concentrate, demineralized bone matrix and PRF an alternative to curettage and bone grafting for treating aneurysmal bone cyst?. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 269-278.	1.3	4

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73	Engineering viral promoters for gene transfer to human neuroblasts. Cellular and Molecular Neurobiology, 2000, 20, 409-415.	1.7	3
74	Innovative Composite HA Scaffold Rapid Prototyping for Bone Reconstruction: An <i>In Vitro</i> Pilot Study. Key Engineering Materials, 2013, 583, 56-63.	0.4	3
75	Minimally invasive treatment of long bone nonunions with bone marrow concentrate, demineralized bone matrix and platelet-rich fibrin in 38 patients. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 831-840.	1.3	3
76	Recovery of stromal stem cells in bone sarcoma patients after chemotherapy: Implication for cell-based therapy in bone defect reconstruction. Oncology Reports, 0, , .	1.2	3
77	The use of fluoride cement: preliminary experimental study and clinical application. La Chirurgia Degli Organi Di Movimento, 2008, 91, 141-146.	0.2	2
78	Co-Density Distribution Maps for Advanced Molecule Colocalization and Co-Distribution Analysis. Sensors, 2021, 21, 6385.	2.1	2
79	Growth factors contained in platelets enhance proliferation of human mesenchymal stem cells. , 0, , .		1
80	Characterization and cytocompatibility of a new injectable multiphasic bone substitute based on a combination of polysaccharide gel-coated <sup>®</sup> OSPROLIFE HA/TTCP granules and bone marrow concentrate. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 894-902.	1.6	1
81	Abstract 5340: Regulation of osteoblast differentiation: The pivotal role of CD99 molecule. , 2011, , .		0