

# Alessandra Colombini

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

1,662  
citations

24  
h-index

38  
g-index

81  
ext. papers

2,040  
ext. citations

4.8  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
76	Metabolic markers in sports medicine. <i>Advances in Clinical Chemistry</i> , <b>2012</b> , 56, 1-54	5.8	143
75	Whole-body cryotherapy in athletes. <i>Sports Medicine</i> , <b>2010</b> , 40, 509-17	10.6	142
74	Bone metabolism markers in sports medicine. <i>Sports Medicine</i> , <b>2010</b> , 40, 697-714	10.6	98
73	Pathophysiology of the human intervertebral disc. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2008</b> , 40, 837-42	5.6	78
72	Injective mesenchymal stem cell-based treatments for knee osteoarthritis: from mechanisms of action to current clinical evidences. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2019</b> , 27, 2003-2020	5.5	66
71	Low frequency pulsed electromagnetic field affects proliferation, tissue-specific gene expression, and cytokines release of human tendon cells. <i>Cell Biochemistry and Biophysics</i> , <b>2013</b> , 66, 697-708	3.2	56
70	Blood biochemical markers of bone turnover: pre-analytical and technical aspects of sample collection and handling. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2012</b> , 50, 771-89	5.9	41
69	Relationship between vitamin D receptor gene (VDR) polymorphisms, vitamin D status, osteoarthritis and intervertebral disc degeneration. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2013</b> , 138, 24-40	5.1	41
68	FokI polymorphism in the vitamin D receptor gene (VDR) and its association with lumbar spine pathologies in the Italian population: a case-control study. <i>PLoS ONE</i> , <b>2014</b> , 9, e97027	3.7	40
67	Interaction with hyaluronan matrix and miRNA cargo as contributors for in vitro potential of mesenchymal stem cell-derived extracellular vesicles in a model of human osteoarthritic synoviocytes. <i>Stem Cell Research and Therapy</i> , <b>2019</b> , 10, 109	8.3	35
66	Inflammatory priming enhances mesenchymal stromal cell secretome potential as a clinical product for regenerative medicine approaches through secreted factors and EV-miRNAs: the example of joint disease. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 165	8.3	35
65	Mesenchymal stem cells in the treatment of articular cartilage degeneration: New biological insights for an old-timer cell. <i>Cytotherapy</i> , <b>2019</b> , 21, 1179-1197	4.8	35
64	Bone and energy metabolism parameters in professional cyclists during the Giro d'Italia 3-weeks stage race. <i>PLoS ONE</i> , <b>2012</b> , 7, e42077	3.7	31
63	Biochemistry of adolescent idiopathic scoliosis. <i>Advances in Clinical Chemistry</i> , <b>2011</b> , 54, 165-82	5.8	31
62	BsmI, ApaI and TaqI Polymorphisms in the Vitamin D Receptor Gene (VDR) and Association with Lumbar Spine Pathologies: An Italian Case-Control Study. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155004	3.7	30
61	Vitamin D in exercise: physiologic and analytical concerns. <i>Clinica Chimica Acta</i> , <b>2013</b> , 415, 45-53	6.2	29
60	Metabolic effects of vitamin D active metabolites in monolayer and micromass cultures of nucleus pulposus and annulus fibrosus cells isolated from human intervertebral disc. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2012</b> , 44, 1019-30	5.6	29

59	Gender differences in the VDR-FokI polymorphism and conventional non-genetic risk factors in association with lumbar spine pathologies in an Italian case-control study. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 3722-39	6.3	28
58	Bone-muscle unit activity, salivary steroid hormones profile, and physical effort over a 3-week stage race. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2015</b> , 25, 70-80	4.6	27
57	Hematological profile and martial status in rugby players during whole body cryostimulation. <i>PLoS ONE</i> , <b>2013</b> , 8, e55803	3.7	26
56	Identification of miRNA Reference Genes in Extracellular Vesicles from Adipose Derived Mesenchymal Stem Cells for Studying Osteoarthritis. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	25
55	Orthopedic bioactive implants: Hydrogel enrichment of macroporous titanium for the delivery of mesenchymal stem cells and strontium. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3396-403	5.4	25
54	Haematological and iron metabolism parameters in professional cyclists during the Giro d'Italia 3-weeks stage race. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2012</b> , 50, 949-56	5.9	25
53	In Vitro Induction of Tendon-Specific Markers in Tendon Cells, Adipose- and Bone Marrow-Derived Stem Cells is Dependent on TGF $\beta$ , BMP-12 and Ascorbic Acid Stimulation. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	24
52	Stability of haematological parameters and its relevance on the athlete's biological passport model. <i>Sports Medicine</i> , <b>2011</b> , 41, 1033-42	10.6	24
51	Reciprocal regulation of calcium-/phosphate-regulating hormones in cyclists during the Giro d'Italia 3-week stage race. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2014</b> , 24, 779-87	4.6	23
50	Seasonal variation of bone turnover markers in top-level female skiers. <i>European Journal of Applied Physiology</i> , <b>2011</b> , 111, 433-40	3.4	23
49	Secreted Factors and EV-miRNAs Orchestrate the Healing Capacity of Adipose Mesenchymal Stem Cells for the Treatment of Knee Osteoarthritis. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	22
48	Matrix metalloproteases MMP-2 and MMP-9: are they early biomarkers of bone remodelling and healing after arthroscopic acromioplasty?. <i>Injury</i> , <b>2010</b> , 41, 1204-7	2.5	22
47	Human Diseased Articular Cartilage Contains a Mesenchymal Stem Cell-Like Population of Chondroprogenitors with Strong Immunomodulatory Responses. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	21
46	Calcium ions enclosed in casein phosphopeptide aggregates are directly involved in the mineral uptake by differentiated HT-29 cells. <i>International Dairy Journal</i> , <b>2010</b> , 20, 770-776	3.5	21
45	Stability of osteopontin in plasma and serum. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2012</b> , 50, 1979-84	3.4	21
44	Interplay between low plasma RANKL and VDR-FokI polymorphism in lumbar disc herniation independently from age, body mass, and environmental factors: a case-control study in the Italian population. <i>European Spine Journal</i> , <b>2016</b> , 25, 192-199	2.7	20
43	Influence on chondrogenesis of human osteoarthritic chondrocytes in co-culture with donor-matched mesenchymal stem cells from infrapatellar fat pad and subcutaneous adipose tissue. <i>International Journal of Immunopathology and Pharmacology</i> , <b>2013</b> , 26, 23-31	3	20
42	A world apart: Inaccuracies of laboratory methodologies in antidoping testing. <i>Clinica Chimica Acta</i> , <b>2010</b> , 411, 1003-8	6.2	18

41	Cardiac indexes, cardiac damage biomarkers and energy expenditure in professional cyclists during the Giro d'Italia 3-weeks stage race. <i>Biochemia Medica</i> , <b>2012</b> , 22, 237-46	2.5	16
40	miR-22-5p and miR-29a-5p Are Reliable Reference Genes for Analyzing Extracellular Vesicle-Associated miRNAs in Adipose-Derived Mesenchymal Stem Cells and Are Stable under Inflammatory Priming Mimicking Osteoarthritis Condition. <i>Stem Cell Reviews and Reports</i> , <b>2019</b> , 15, 743-754	7.3	15
39	In vitro characterization and in vivo behavior of human nucleus pulposus and annulus fibrosus cells in clinical-grade fibrin and collagen-enriched fibrin gels. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 793-802	3.9	15
38	Fibrin in intervertebral disc tissue engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2014</b> , 20, 713-21	7.9	15
37	Evaluation of creatinine, cystatin C and eGFR by different equations in professional cyclists during the Giro d'Italia 3-weeks stage race. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , <b>2012</b> , 72, 114-20	2	15
36	Serum creatine kinase activity and its relationship with renal function indices in professional cyclists during the Giro d'Italia 3-week stage race. <i>Clinical Journal of Sport Medicine</i> , <b>2012</b> , 22, 408-13	3.2	14
35	Insights into Inflammatory Priming of Adipose-Derived Mesenchymal Stem Cells: Validation of Extracellular Vesicles-Embedded miRNA Reference Genes as A Crucial Step for Donor Selection. <i>Cells</i> , <b>2019</b> , 8,	7.9	13
34	Housekeeping Gene Stability in Human Mesenchymal Stem and Tendon Cells Exposed to Tenogenic Factors. <i>Tissue Engineering - Part C: Methods</i> , <b>2018</b> , 24, 360-367	2.9	12
33	Reticulocytes in sports medicine: an update. <i>Advances in Clinical Chemistry</i> , <b>2013</b> , 59, 125-53	5.8	12
32	Analytical variability in sport hematology: its importance in an antidoping setting. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2011</b> , 49, 779-82	5.9	12
31	Silk/Fibroin Microcarriers for Mesenchymal Stem Cell Delivery: Optimization of Cell Seeding by the Design of Experiment. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	11
30	Intra-Articular Injection of Hydrolyzed Collagen to Treat Symptoms of Knee Osteoarthritis. A Functional In Vitro Investigation and a Pilot Retrospective Clinical Study. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	10
29	Estimation of glomerular filtration rate by MDRD equation in athletes: role of body surface area. <i>European Journal of Applied Physiology</i> , <b>2012</b> , 112, 201-6	3.4	9
28	Plasma and drainage fluid levels of soluble receptor activator of nuclear factor-kB (sRANK), soluble receptor activator of nuclear factor-kB ligand (sRANKL) and osteoprotegerin (OPG) during proximal humerus fracture healing. <i>International Orthopaedics</i> , <b>2011</b> , 35, 777-82	3.8	9
27	New Strategies in Cartilage Tissue Engineering for Osteoarthritic Patients: Infrapatellar Fat Pad as an Alternative Source of Progenitor Cells. <i>Journal of Biomaterials and Tissue Engineering</i> , <b>2011</b> , 1, 40-48	0.3	9
26	Plasma vitamin D and osteo-cartilaginous markers in Italian males affected by intervertebral disc degeneration: Focus on seasonal and pathological trend of type II collagen degradation. <i>Clinica Chimica Acta</i> , <b>2017</b> , 471, 87-93	6.2	8
25	Evaluation of a possible direct effect by casein phosphopeptides on paracellular and vitamin D controlled transcellular calcium transport mechanisms in intestinal human HT-29 and Caco2 cell lines. <i>Food and Function</i> , <b>2013</b> , 4, 1195-203	6.1	8
24	Amniotic membrane-mesenchymal stromal cells secreted factors and extracellular vesicle-miRNAs: Anti-inflammatory and regenerative features for musculoskeletal tissues. <i>Stem Cells Translational Medicine</i> , <b>2021</b> , 10, 1044-1062	6.9	8

23	Serum uric acid in top-level alpine skiers over four consecutive competitive seasons. <i>Clinica Chimica Acta</i> , <b>2010</b> , 411, 645-8	6.2	7
22	Design of microfluidic devices for drug screening on in-vitro cells for osteoporosis therapies. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 1801-1806	2.5	7
21	Autologous microfragmented adipose tissue reduces inflammatory and catabolic markers in supraspinatus tendon cells derived from patients affected by rotator cuff tears. <i>International Orthopaedics</i> , <b>2021</b> , 45, 419-426	3.8	7
20	Rationale and pre-clinical evidences for the use of autologous cartilage micrografts in cartilage repair. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2018</b> , 13, 279	2.8	7
19	High Levels of Circulating Type II Collagen Degradation Marker (CTX-II) Are Associated with Specific VDR Polymorphisms in Patients with Adult Vertebral Osteochondrosis. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	6
18	Cartilage Protective and Immunomodulatory Features of Osteoarthritis Synovial Fluid-Treated Adipose-Derived Mesenchymal Stem Cells Secreted Factors and Extracellular Vesicles-Embedded miRNAs. <i>Cells</i> , <b>2021</b> , 10,	7.9	6
17	Validation of reference and identity-defining genes in human mesenchymal stem cells cultured under unrelated fetal bovine serum batches for basic science and clinical application. <i>Stem Cell Reviews and Reports</i> , <b>2018</b> , 14, 837-846	6.4	6
16	miRNA Reference Genes in Extracellular Vesicles Released from Amniotic Membrane-Derived Mesenchymal Stromal Cells. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	5
15	Vitamin D $\alpha$ Effect on the Proliferation and Inflammation of Human Intervertebral Disc Cells in Relation to the Functional Vitamin D Receptor Gene FokI Polymorphism. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	5
14	Autologous Microfragmented Adipose Tissue Reduces the Catabolic and Fibrosis Response in an In Vitro Model of Tendon Cell Inflammation. <i>Stem Cells International</i> , <b>2019</b> , 2019, 5620286	5	4
13	Muscular Damage and Kidney Function in Rugby Players after Daily Whole Body Cryostimulation. <i>Physiology Journal</i> , <b>2014</b> , 2014, 1-7		3
12	In Vitro Study of Extracellular Vesicles Migration in Cartilage-Derived Osteoarthritis Samples Using Real-Time Quantitative Multimodal Nonlinear Optics Imaging. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	3
11	miR-103a-3p and miR-22-5p Are Reliable Reference Genes in Extracellular Vesicles From Cartilage, Adipose Tissue, and Bone Marrow Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 632440	5.8	3
10	Chondrogenic capability of osteoarthritic chondrocytes from the trapeziometacarpal and hip joints. <i>Cell and Tissue Banking</i> , <b>2016</b> , 17, 171-7	2.2	2
9	Creatine supplementation improves performance, but is it safe? Double-blind placebo-controlled study. <i>Journal of Sports Medicine and Physical Fitness</i> , <b>2020</b> , 60, 1034-1039	1.4	2
8	A single step, centrifuge-free method to harvest bone marrow highly concentrated in mesenchymal stem cells: results of a pilot trial. <i>International Orthopaedics</i> , <b>2021</b> , 1	3.8	1
7	Adipose-Derived Mesenchymal Stromal Cells Treated with Interleukin 1 Beta Produced Chondro-Protective Vesicles Able to Fast Penetrate in Cartilage. <i>Cells</i> , <b>2021</b> , 10,	7.9	1
6	Classification of endplate lesions in the lumbar spine and association with risk factors, biochemistry, and genetics. <i>European Spine Journal</i> , <b>2021</b> , 30, 2231-2237	2.7	1

- 5 Tendon Cells Derived From The Long Head Of The Biceps And The Supraspinatus Tendons Of Patients Affected By Rotator Cuff Tears Show Different Expression Of Inflammatory Markers. *Connective Tissue Research*, **2021**, 62, 570-579 3.3 0
- 4 Indirect markers for detecting growth hormone abuse by athletes. *Clinical Endocrinology*, **2010**, 73, 272-3; author reply 274-5 3.4
- 3 Fat-Derived Stem Cells **2022**, 221-230
- 2 A2A adenosine receptors are involved in the reparative response of tendon cells to pulsed electromagnetic fields. *PLoS ONE*, **2020**, 15, e0239807 3.7
- 1 Letter to the Editor concerning "Classification of endplate lesions in the lumbar spine and association with risk factors, biochemistry, and genetics" by Alessandra Colombini et al. (Eur Spine J; doi: 10.1007/s00586-021-06719-1). *European Spine Journal*, **2021**, 1 2.7