

# Andrea Hoffmann

## List of Publications by Year in descending order

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87  
papers

3,377  
citations

159585

30  
h-index

149698

56  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic Strategies for Tendon Healing Based on Novel Biomaterials, Factors and Cells. <i>Pathobiology</i> , 2013, 80, 203-210.	3.8	359
2	Phosphonic Acid Monolayers for Binding of Bioactive Molecules to Titanium Surfaces. <i>Langmuir</i> , 2006, 22, 8197-8204.	3.5	239
3	Neotendon formation induced by manipulation of the Smad8 signalling pathway in mesenchymal stem cells. <i>Journal of Clinical Investigation</i> , 2006, 116, 940-952.	8.2	221
4	Purification and Chemical Characterization of Î²â€Trace Protein from Human Cerebrospinal Fluid: Its Identification as Prostaglandin D Synthase. <i>Journal of Neurochemistry</i> , 1993, 61, 451-456.	3.9	168
5	Renaturation and purification of bone morphogenetic protein-2 produced as inclusion bodies in high-cell-density cultures of recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2002, 94, 185-194.	3.8	132
6	Molecular characterization of Î²-trace protein in human serum and urine: a potential diagnostic marker for renal diseases. <i>Glycobiology</i> , 1997, 7, 499-506.	2.5	131
7	Tendon and ligament engineering in the adult organism: mesenchymal stem cells and gene-therapeutic approaches. <i>International Orthopaedics</i> , 2007, 31, 791-797.	1.9	124
8	BMP Signaling Pathways in Cartilage and Bone Formation. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2001, 11, 24.	0.9	98
9	â€Brain-typeâ€™N-glycosylation of asialo-transferrin from human cerebrospinal fluid. <i>FEBS Letters</i> , 1995, 359, 164-168.	2.8	90
10	The T-box transcription factor <i>Brachyury</i> mediates cartilage development in mesenchymal stem cell line C3H10T1/2. <i>Journal of Cell Science</i> , 2002, 115, 769-781.	2.0	80
11	Carbohydrate Structures of Î²â€Trace Protein from Human Cerebrospinal Fluid: Evidence for â€Brainâ€Typeâ€N</i>â€Glycosylation. <i>Journal of Neurochemistry</i> , 1994, 63, 2185-2196.	3.9	77
12	Transforming Growth Factor-Î²-activated Kinase-1 (TAK1), a MAP3K, Interacts with Smad Proteins and Interferes with Osteogenesis in Murine Mesenchymal Progenitors. <i>Journal of Biological Chemistry</i> , 2005, 280, 27271-27283.	3.4	70
13	Bmp-2 downstream targets in mesenchymal development identified by subtractive cloning from recombinant mesenchymal progenitors (C3H10T1/2). <i>Developmental Dynamics</i> , 1998, 213, 398-411.	1.8	68
14	Tendon and ligament engineering: from cell biology to in vivo application. <i>Regenerative Medicine</i> , 2006, 1, 563-574.	1.7	64
15	The T-box transcription factor <i>Brachyury</i> mediates cartilage development in mesenchymal stem cell line C3H10T1/2. <i>Journal of Cell Science</i> , 2002, 115, 769-81.	2.0	64
16	In vivo RNAi-mediated silencing of TAK1 decreases inflammatory Th1 and Th17 cells through targeting of myeloid cells. <i>Blood</i> , 2010, 116, 3505-3516.	1.4	57
17	Developmental expression of murine Î²-trace in embryos and adult animals suggests a function in maturation and maintenance of blood-tissue barriers. , 1996, 207, 332-343.		53
18	The Phosphate Source Influences Gene Expression and Quality of Mineralization during In Vitro Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2013, 8, e65943.	2.5	51

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19	The Bone Morphogenetic Protein 2 Signaling Mediator Smad1 Participates Predominantly in Osteogenic and not in Chondrogenic Differentiation in Mesenchymal Progenitors C3H10T $\frac{1}{2}$ . Journal of Bone and Mineral Research, 2000, 15, 1889-1899.	2.8	49
20	Wnt-ligand-dependent interaction of TAK1 (TGF- $\beta$ -activated kinase-1) with the receptor tyrosine kinase Ror2 modulates canonical Wnt-signalling. Cellular Signalling, 2008, 20, 2134-2144.	3.6	48
21	Stable release of BDNF from the fibroblast cell line NIH3T3 grown on silicone elastomers enhances survival of spiral ganglion cells in vitro and in vivo. Hearing Research, 2012, 289, 86-97.	2.0	47
22	Effects of Murine and Human Bone Marrow-Derived Mesenchymal Stem Cells on Cuprizone Induced Demyelination. PLoS ONE, 2013, 8, e69795.	2.5	43
23	Amino-modified silica surfaces efficiently immobilize bone morphogenetic protein 2 (BMP2) for medical purposes. Acta Biomaterialia, 2011, 7, 1772-1779.	8.3	42
24	Hypoglycosylation of a brain glycoprotein ( $\beta$ -trace protein) in CDG syndromes due to phosphomannomutase deficiency and N-acetylglucosaminyl-transferase II deficiency. Glycobiology, 1997, 7, 1077-1084.	2.5	41
25	Mesenchymal Stem Cell-Dependent Formation of Heterotopic Tendon-Bone Insertions (Osteotendinous) Tj ETQq1 1 0.784314 rgBT /Ov 3.2 40	3.2	40
26	The biological effects of cell-delivered brain-derived neurotrophic factor on cultured spiral ganglion cells. NeuroReport, 2007, 18, 1683-1686.	1.2	35
27	Drug-Induced Trafficking of P-Glycoprotein in Human Brain Capillary Endothelial Cells as Demonstrated by Exposure to Mitomycin C. PLoS ONE, 2014, 9, e88154.	2.5	34
28	BDNF $\alpha$ overexpressing human mesenchymal stem cells mediate increased neuronal protection in vitro. Journal of Neuroscience Research, 2019, 97, 1414-1429.	2.9	34
29	Stem Cell Based Drug Delivery for Protection of Auditory Neurons in a Guinea Pig Model of Cochlear Implantation. Frontiers in Cellular Neuroscience, 2019, 13, 177.	3.7	34
30	Synthesis and Characterization of Biocompatible Polymer Interlayers on Titanium Implant Materials. Biomacromolecules, 2006, 7, 2552-2559.	5.4	33
31	Molecular and cellular characteristics of human and non-human primate multipotent stromal cells from the amnion and bone marrow during long term culture. Stem Cell Research and Therapy, 2015, 6, 150.	5.5	33
32	Advanced Molecular Profiling in Vivo Detects Novel Function of Dickkopf-3 in the Regulation of Bone Formation. Journal of Bone and Mineral Research, 2006, 21, 1935-1945.	2.8	32
33	Periostin Secreted by Mesenchymal Stem Cells Supports Tendon Formation in an Ectopic Mouse Model. Stem Cells and Development, 2014, 23, 1844-1857.	2.1	30
34	Comparison of in vitro-cultivation of human mesenchymal stroma/stem cells derived from bone marrow and umbilical cord. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2565-2581.	2.7	29
35	Attachment of nanoparticulate drug-release systems on poly( $\mu$ -caprolactone) nanofibers via a graftpolymer as interlayer. Colloids and Surfaces B: Biointerfaces, 2018, 163, 309-320.	5.0	29
36	In vivo analysis of vascularization and biocompatibility of electrospun polycaprolactone fibre mats in the rat femur chamber. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1190-1202.	2.7	29

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37	ACE-gene polymorphism is associated with the development of allograft vascular disease in heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2000, 19, 1175-1182.	0.6	28
38	Distinct roles of BMP receptors Type IA and IB in osteo- and chondrogenic differentiation in mesenchymal progenitors (C3H10T1/2). <i>BioFactors</i> , 2004, 20, 71-84.	5.4	25
39	THOC5, a member of the mRNA export complex, contributes to processing of a subset of wingless/integrated (Wnt) target mRNAs and integrity of the gut epithelial barrier. <i>BMC Cell Biology</i> , 2013, 14, 51.	3.0	25
40	Mesenchymal stem cells do not exert direct beneficial effects on CNS remyelination in the absence of the peripheral immune system. <i>Brain, Behavior, and Immunity</i> , 2015, 50, 155-165.	4.1	25
41	Alginate-encapsulated brain-derived neurotrophic factor-overexpressing mesenchymal stem cells are a promising drug delivery system for protection of auditory neurons. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173142091131.	5.5	24
42	Osseointegration by bone morphogenetic protein-2 and transforming growth factor beta2 coated titanium implants in femora of New Zealand white rabbits. <i>Indian Journal of Orthopaedics</i> , 2011, 45, 57-62.	1.1	23
43	Coating of Titanium Implant Materials with Thin Polymeric Films for Binding the Signaling Protein BMP2. <i>Macromolecular Bioscience</i> , 2011, 11, 234-244.	4.1	21
44	Effect of hyperbaric oxygen on BDNF-release and neuroprotection: Investigations with human mesenchymal stem cells and genetically modified NIH3T3 fibroblasts as putative cell therapeutics. <i>PLoS ONE</i> , 2017, 12, e0178182.	2.5	20
45	Blending chitosan-g-poly(caprolactone) with poly(caprolactone) by electrospinning to produce functional fiber mats for tissue engineering applications. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48650.	2.6	20
46	Analysis of Surface Protein Expression in Human Bone Marrow Stromal Cells: New Aspects of Culture-Induced Changes, Inter-Donor Differences and Intracellular Expression. <i>Stem Cells and Development</i> , 2013, 22, 3226-3235.	2.1	19
47	Limited Potential or Unfavorable Manipulations? Strategies Toward Efficient Mesenchymal Stem/Stromal Cell Applications. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 316.	3.7	19
48	Constitutive secretion of Î²-trace protein by cultivated porcine choroid plexus epithelial cells: Elucidation of its complete amino acid and cDNA sequences. <i>Journal of Cellular Physiology</i> , 1996, 169, 235-241.	4.1	18
49	Screening of photochemically grafted polymer films for compatibility with osteogenic precursor cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 303-316.	3.5	18
50	Vascularization and biocompatibility of poly(Îµ-caprolactone) fiber mats for rotator cuff tear repair. <i>PLoS ONE</i> , 2020, 15, e0227563.	2.5	18
51	Expression of CD24 in Human Bone Marrow-Derived Mesenchymal Stromal Cells Is Regulated by TGFÎ²3 and Induces a Myofibroblast-Like Genotype. <i>Stem Cells International</i> , 2016, 2016, 1-13.	2.5	17
52	Mesenchymal Stem Cells Form 3D Clusters Following Intraventricular Transplantation. <i>Journal of Molecular Neuroscience</i> , 2018, 65, 60-73.	2.3	17
53	Possibilities and limitations of electrospun chitosan-coated polycaprolactone grafts for rotator cuff tear repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 186-197.	2.7	16
54	Properties of dimeric, disulfide-linked rhBMP-2 recovered from E. coli derived inclusion bodies by mild extraction or chaotropic solubilization and subsequent refolding. <i>Process Biochemistry</i> , 2018, 67, 80-87.	3.7	15

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55	Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. <i>Cytotherapy</i> , 2020, 22, 653-668.	0.7	15
56	Fibroblast-Mediated Delivery of GDNF Induces Neuronal-Like Outgrowth in PC12 Cells. <i>Otology and Neurotology</i> , 2008, 29, 475-481.	1.3	14
57	Regeneration of Damaged Tendon-Bone Junctions (Entheses)â€”TAK1 as a Potential Node Factor. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5177.	4.1	14
58	CARDIAC ALLOGRAFT VASCULAR DISEASE AFTER ORTHOTOPIC HEART TRANSPLANTATION. <i>Transplantation</i> , 2000, 69, 442-446.	1.0	14
59	Grid-like surface structures in thermoplastic polyurethane induce anti-inflammatory and anti-fibrotic processes in bone marrow-derived mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 104-115.	5.0	13
60	Gap Junction Dependent Cell Communication Is Modulated During Transdifferentiation of Mesenchymal Stem/Stromal Cells Towards Neuron-Like Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 869.	3.7	13
61	Varying the sustained release of BMPâ€”2 from chitosan nanogelâ€”functionalized polycaprolactone fiber mats by different polycaprolactone surface modifications. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 600-614.	4.0	13
62	Enhancement of endoprosthesis anchoring using BMP-2. <i>Technology and Health Care</i> , 2010, 18, 217-229.	1.2	12
63	Stability and Biological Activity of E. coli Derived Soluble and Precipitated Bone Morphogenetic Protein-2. <i>Pharmaceutical Research</i> , 2019, 36, 184.	3.5	12
64	Differential magnesium implant corrosion coat formation and contribution to bone bonding. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 697-709.	4.0	11
65	Development of an enzyme-linked immunoreceptor assay (ELIRA) for quantification of the biological activity of recombinant human bone morphogenetic protein-2. <i>Journal of Biotechnology</i> , 2005, 119, 425-435.	3.8	10
66	Induction of neuronal-like phenotype in human mesenchymal stem cells by overexpression of Neurogenin1 and treatment with neurotrophins. <i>Tissue and Cell</i> , 2016, 48, 524-532.	2.2	10
67	Sustained release of TGF-Î²3 from polysaccharide nanoparticles induces chondrogenic differentiation of human mesenchymal stromal cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110843.	5.0	10
68	Innovative Strategies for Treatment of Soft Tissue Injuries in Human and Animal Athletes. <i>Medicine and Sport Science</i> , 2009, 54, 150-165.	1.4	9
69	Myc/Max dependent intronic long antisense noncoding RNA, EVA1A-AS, suppresses the expression of Myc/Max dependent anti-proliferating gene EVA1A in a U2 dependent manner. <i>Scientific Reports</i> , 2019, 9, 17319.	3.3	8
70	Heparin Anticoagulant for Human Bone Marrow Does Not Influence In Vitro Performance of Human Mesenchymal Stromal Cells. <i>Cells</i> , 2020, 9, 1580.	4.1	4
71	Coating of titanium implants with copolymer supports bone regeneration: a comparative in vivo study in rabbits. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 26-33.	0.4	3
72	Differential Expression of Cholinergic System Components in Human Induced Pluripotent Stem Cells, Bone Marrow-Derived Multipotent Stromal Cells, and Induced Pluripotent Stem Cell-Derived Multipotent Stromal Cells. <i>Stem Cells and Development</i> , 2018, 27, 166-183.	2.1	3

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73	The inflammatory signalling mediator TAK1 mediates lymphocyte recruitment to lipopolysaccharide-activated murine mesenchymal stem cells through interleukin-6. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 3655-3670.	3.1	3
74	Spatially and Temporally Controllable BMP-2 and TGF- $\beta$ <sub>3</sub> Double Release From Polycaprolactone Fiber Scaffolds via Chitosan-Based Polyelectrolyte Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2024, 10, 89-98.	5.2	3
75	Characterization of human $\beta$ -trace protein from natural body fluids, from patients and from recombinant sources. <i>Prostaglandins</i> , 1996, 51, 284.	1.2	2
76	ELISA- and Activity Assay-Based Quantification of BMP-2 Released In Vitro Can Be Biased by Solubility in $\alpha$ -Physiological Buffers and an Interfering Effect of Chitosan. <i>Pharmaceutics</i> , 2021, 13, 582.	4.5	2
77	Refolding, purification, and characterization of constitutive-active human-Smad8 produced as inclusion bodies in ClearColi <sup>®</sup> BL21 (DE3). <i>Protein Expression and Purification</i> , 2021, 184, 105878.	1.3	2
78	$\alpha$ -Brain-Tissue-Specific Versus $\alpha$ -Serum-Specific Posttranslational Modification of Human Cerebrospinal Fluid Polypeptides with N-Linked Carbohydrates. <i>Advances in Behavioral Biology</i> , 1996, , 103-107.	0.2	1
79	BMP-MEDIATED SIGNALING PATHWAYS FOR BONE FOMATION ARE DIRECTLY BLOCKED BY INFLAMMATORY SIGNALING CASCADES. <i>Shock</i> , 2004, 21, 6.	2.1	0
80	Biological Properties of Cells Other Than HSCs. , 2019, , 57-60.		0
81	5 Mesenchymal stem cells in entheses formation and repair. , 2013, , 83-100.		0
82	Title is missing!. , 2020, 15, e0227563.		0
83	Title is missing!. , 2020, 15, e0227563.		0
84	Title is missing!. , 2020, 15, e0227563.		0
85	Title is missing!. , 2020, 15, e0227563.		0
86	Title is missing!. , 2020, 15, e0227563.		0
87	Title is missing!. , 2020, 15, e0227563.		0