

Cornelia Neidlinger-Wilke

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,658
citations

218677

26
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

2594
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Mechanical Factors on the Fracture Healing Process. <i>Clinical Orthopaedics and Related Research</i> , 1998, 355S, S132-S147.	1.5	552
2	Cyclic stretching of human osteoblasts affects proliferation and metabolism: A new experimental method and its application. <i>Journal of Orthopaedic Research</i> , 1994, 12, 70-78.	2.3	229
3	Proliferation of human-derived osteoblast-like cells depends on the cycle number and frequency of uniaxial strain. <i>Journal of Biomechanics</i> , 2002, 35, 873-880.	2.1	152
4	Behavior of Mesenchymal Stem Cells in the Chemical Microenvironment of the Intervertebral Disc. <i>Spine</i> , 2008, 33, 1843-1849.	2.0	145
5	Validity and interobserver agreement of a new radiographic grading system for intervertebral disc degeneration: Part I. Lumbar spine. <i>European Spine Journal</i> , 2006, 15, 720-730.	2.2	135
6	Influence of extracellular osmolarity and mechanical stimulation on gene expression of intervertebral disc cells. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1513-1522.	2.3	132
7	Mechanical loading of the intervertebral disc: from the macroscopic to the cellular level. <i>European Spine Journal</i> , 2014, 23, 333-343.	2.2	130
8	Human osteoblasts from younger normal and osteoporotic donors show differences in proliferation and TGF β ² -release in response to cyclic strain. <i>Journal of Biomechanics</i> , 1995, 28, 1411-1418.	2.1	110
9	Regulation of gene expression in intervertebral disc cells by low and high hydrostatic pressure. <i>European Spine Journal</i> , 2006, 15, 372-378.	2.2	100
10	Is a collagen scaffold for a tissue engineered nucleus replacement capable of restoring disc height and stability in an animal model?. <i>European Spine Journal</i> , 2006, 15, 433-438.	2.2	95
11	Validity and interobserver agreement of a new radiographic grading system for intervertebral disc degeneration: Part II. Cervical spine. <i>European Spine Journal</i> , 2006, 15, 732-741.	2.2	85
12	Interactions of environmental conditions and mechanical loads have influence on matrix turnover by nucleus pulposus cells. <i>Journal of Orthopaedic Research</i> , 2012, 30, 112-121.	2.3	76
13	A three-dimensional collagen matrix as a suitable culture system for the comparison of cyclic strain and hydrostatic pressure effects on intervertebral disc cells. <i>Journal of Neurosurgery: Spine</i> , 2005, 2, 457-465.	1.7	73
14	Anti-inflammatory Chitosan/Poly- β -glutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. <i>Acta Biomaterialia</i> , 2016, 42, 168-179.	8.3	68
15	The mechanical response of the lumbar spine to different combinations of disc degenerative changes investigated using randomized poroelastic finite element models. <i>European Spine Journal</i> , 2011, 20, 563-571.	2.2	60
16	Ilizarov callus distraction produces systemic bone cell mitogens. <i>Journal of Orthopaedic Research</i> , 1995, 13, 629-638.	2.3	51
17	Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration. <i>Spine</i> , 2018, 43, E673-E682.	2.0	49
18	Cell sources for nucleus pulposus regeneration. <i>European Spine Journal</i> , 2014, 23, 364-374.	2.2	48

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19	Mitogens are increased in the systemic circulation during bone callus healing. <i>Journal of Orthopaedic Research</i> , 2003, 21, 320-325.	2.3	39
20	Role of the Complement System in the Response to Orthopedic Biomaterials. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3367.	4.1	38
21	The effect of degenerative morphological changes of the intervertebral disc on the lumbar spine biomechanics: a poroelastic finite element investigation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 729-739.	1.6	37
22	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An <i>Ex Vivo</i> Model for Anti-inflammatory Drug and Cell Therapy. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 8-19.	2.1	35
23	Cell orientation induced by extracellular signals. <i>Cell Biochemistry and Biophysics</i> , 1999, 30, 167-192.	1.8	31
24	Influence of low glucose supply on the regulation of gene expression by nucleus pulposus cells and their responsiveness to mechanical loading. <i>Journal of Neurosurgery: Spine</i> , 2010, 13, 535-542.	1.7	31
25	Effect of intervertebral disc degeneration on disc cell viability: a numerical investigation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 328-337.	1.6	31
26	Mechanical Stimulation Alters Pleiotrophin and Aggrecan Expression by Human Intervertebral Disc Cells and Influences Their Capacity to Stimulate Endothelial Cell Migration. <i>Spine</i> , 2009, 34, 663-669.	2.0	27
27	Molecular Interactions Between Human Cartilaginous Endplates and Nucleus Pulposus Cells. <i>Spine</i> , 2014, 39, 1355-1364.	2.0	22
28	Evaluation of platelet-rich plasma and hydrostatic pressure regarding cell differentiation in nucleus pulposus tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 244-252.	2.7	21
29	GEORG SCHMORL PRIZE OF THE GERMAN SPINE SOCIETY (DWG) 2018: combined inflammatory and mechanical stress weakens the annulus fibrosus: evidences from a loaded bovine AF organ culture. <i>European Spine Journal</i> , 2019, 28, 922-933.	2.2	14
30	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , 2021, 30, 217-226.	2.2	11
31	Reduced Terminal Complement Complex Formation in Mice Manifests in Low Bone Mass and Impaired Fracture Healing. <i>American Journal of Pathology</i> , 2019, 189, 147-161.	3.8	9
32	Interleukin-1 β and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. <i>European Spine Journal</i> , 2021, 30, 2247-2256.	2.2	9
33	Interleukin-1 β More Than Mechanical Loading Induces a Degenerative Phenotype in Human Annulus Fibrosus Cells, Partially Impaired by Anti-Proteolytic Activity of Mesenchymal Stem Cell Secretome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 802789.	4.1	4
34	Can UVA-light-activated riboflavin-induced collagen crosslinking be transferred from ophthalmology to spine surgery? A feasibility study on bovine intervertebral disc. <i>PLoS ONE</i> , 2021, 16, e0252672.	2.5	3
35	Inverse numerical prediction of the transport properties of vertebral endplates in low back pain patients. <i>Biomedizinische Technik</i> , 2014, 59, 385-97.	0.8	2
36	Infrared attenuated total reflection spectroscopic surface analysis of bovine tail intervertebral discs after UV light-activated riboflavin-induced collagen crosslinking. <i>Journal of Biophotonics</i> , 2020, 13, e202000110.	2.3	2

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37	The Biology of Intervertebral Disc Degeneration. , 2010, , 3-10.		2
38	DIFFERENT OSMOLARITIES ALTER RESPONSIVITY OF ANNULUS CELLS TO INTERMITTENT MECHANICAL STRAIN. Journal of Biomechanics, 2008, 41, S348.	2.1	0
39	Fundamentals of mechanobiology. , 2022, , 71-95.		0
40	Biomechanics of the spine. , 2022, , 35-46.		0