

# Esmeralda Blaney Davidson

## List of Publications by Year in descending order

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77  
papers

2,701  
citations

218677

26  
h-index

189892

50  
g-index

77  
all docs

77  
docs citations

77  
times ranked

3324  
citing authors

#	ARTICLE	IF	CITATIONS
1	TGF- $\hat{I}^2$ and osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 597-604.	1.3	337
2	Increase in ALK1/ALK5 Ratio as a Cause for Elevated MMP-13 Expression in Osteoarthritis in Humans and Mice. <i>Journal of Immunology</i> , 2009, 182, 7937-7945.	0.8	251
3	TGF-beta signaling in chondrocyte terminal differentiation and osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 1539-1545.	1.3	239
4	Reduced transforming growth factor-beta signaling in cartilage of old mice: role in impaired repair capacity. <i>Arthritis Research and Therapy</i> , 2005, 7, R1338.	3.5	179
5	Smad Signaling Determines Chondrogenic Differentiation of Bone-Marrow-Derived Mesenchymal Stem Cells: Inhibition of Smad1/5/8P Prevents Terminal Differentiation and Calcification. <i>Tissue Engineering - Part A</i> , 2011, 17, 1157-1167.	3.1	149
6	Age-dependent alteration of TGF- $\hat{I}^2$ signalling in osteoarthritis. <i>Cell and Tissue Research</i> , 2012, 347, 257-265.	2.9	119
7	A role for age-related changes in TGF $\hat{I}^2$ signaling in aberrant chondrocyte differentiation and osteoarthritis. <i>Arthritis Research and Therapy</i> , 2010, 12, 201.	3.5	106
8	Bone Morphogenetic Proteins and articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 735-741.	1.3	99
9	Elevated extracellular matrix production and degradation upon bone morphogenetic protein-2 (BMP-2) stimulation point toward a role for BMP-2 in cartilage repair and remodeling. <i>Arthritis Research and Therapy</i> , 2007, 9, R102.	3.5	93
10	Unravelling osteoarthritis-related synovial fibrosis: a step closer to solving joint stiffness. <i>Rheumatology</i> , 2015, 54, 1954-1963.	1.9	83
11	TGF beta-induced cartilage repair is maintained but fibrosis is blocked in the presence of Smad7. <i>Arthritis Research and Therapy</i> , 2006, 8, R65.	3.5	81
12	Catabolic Factors and Osteoarthritis-Conditioned Medium Inhibit Chondrogenesis of Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2012, 18, 45-54.	3.1	81
13	A roadmap to target interleukin-6 in osteoarthritis. <i>Rheumatology</i> , 2020, 59, 2681-2694.	1.9	72
14	TGF- $\hat{I}^2$ is a potent inducer of Nerve Growth Factor in articular cartilage via the ALK5-Smad2/3 pathway. Potential role in OA related pain?. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 478-486.	1.3	66
15	Osteoarthritis-related fibrosis is associated with both elevated pyridinoline cross-link formation and lysyl hydroxylase 2b expression. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 157-164.	1.3	64
16	Canonical Wnt signaling skews TGF- $\hat{I}^2$ signaling in chondrocytes towards signaling via ALK1 and Smad 1/5/8. <i>Cellular Signalling</i> , 2014, 26, 951-958.	3.6	64
17	TGF- $\hat{A}$ induces Lysyl hydroxylase 2b in human synovial osteoarthritic fibroblasts through ALK5 signaling. <i>Cell and Tissue Research</i> , 2014, 355, 163-171.	2.9	57
18	Physiological and excessive mechanical compression of articular cartilage activates Smad2/3P signaling. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1018-1025.	1.3	49

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19	TGF $\beta$ 1-induced SMAD2/3 and SMAD1/5 phosphorylation are both ALK5-kinase-dependent in primary chondrocytes and mediated by TAK1 kinase activity. <i>Arthritis Research and Therapy</i> , 2017, 19, 112.	3.5	49
20	Transcriptional profiling distinguishes inner and outer annulus fibrosus from nucleus pulposus in the bovine intervertebral disc. <i>European Spine Journal</i> , 2017, 26, 2053-2062.	2.2	48
21	Ageing is associated with reduction of mechanically-induced activation of Smad2/3P signaling in articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 146-157.	1.3	44
22	TGF- $\beta$ 2 dampens IL-6 signaling in articular chondrocytes by decreasing IL-6 receptor expression. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 1197-1207.	1.3	42
23	Milk extracellular vesicles accelerate osteoblastogenesis but impair bone matrix formation. <i>Journal of Nutritional Biochemistry</i> , 2016, 30, 74-84.	4.2	40
24	Osteoarthritis year in review 2016: biology. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 175-180.	1.3	39
25	SMAD3 and SMAD4 have a more dominant role than SMAD2 in TGF $\beta$ 2-induced chondrogenic differentiation of bone marrow-derived mesenchymal stem cells. <i>Scientific Reports</i> , 2017, 7, 43164.	3.3	39
26	Activin Receptor-Like Kinase Receptors ALK5 and ALK1 Are Both Required for TGF $\beta$ 2-Induced Chondrogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0146124.	2.5	36
27	Acute Acetaminophen Intoxication Leads to Hepatic Iron Loading by Decreased Hpcidin Synthesis. <i>Toxicological Sciences</i> , 2012, 129, 225-233.	3.1	17
28	The level of synovial AXL expression determines the outcome of inflammatory arthritis, possibly depending on the upstream role of TGF- $\beta$ 1. <i>Rheumatology</i> , 2019, 58, 536-546.	1.9	17
29	Interleukin 1 $\beta$ -induced SMAD2/3 linker modifications are TAK1 dependent and delay TGF $\beta$ 2 signaling in primary human mesenchymal stem cells. <i>Cellular Signalling</i> , 2017, 40, 190-199.	3.6	14
30	The RNA-Binding Protein Human Antigen R Controls Global Changes in Gene Expression during Schwann Cell Development. <i>Journal of Neuroscience</i> , 2012, 32, 4944-4958.	3.6	12
31	IL-37 diminishes proteoglycan loss in human OA cartilage: donor-specific link between IL-37 and MMP-3. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 148-157.	1.3	12
32	Osteoarthritis-Related Inflammation Blocks TGF- $\beta$ 2's Protective Effect on Chondrocyte Hypertrophy via (de)Phosphorylation of the SMAD2/3 Linker Region. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8124.	4.1	12
33	How to build an inducible cartilage-specific transgenic mouse. <i>Arthritis Research and Therapy</i> , 2014, 16, 210.	3.5	10
34	Identification of Transcription Factors Responsible for a Transforming Growth Factor- $\beta$ 2-Driven Hypertrophy-like Phenotype in Human Osteoarthritic Chondrocytes. <i>Cells</i> , 2022, 11, 1232.	4.1	9
35	Cross-talk between bone morphogenetic proteins and inflammatory pathways. <i>Arthritis Research and Therapy</i> , 2015, 17, 326.	3.5	8
36	Protocol of the Healthy Brain Study: An accessible resource for understanding the human brain and how it dynamically and individually operates in its bio-social context. <i>PLoS ONE</i> , 2021, 16, e0260952.	2.5	8

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37	IL37 dampens the IL1 $\beta$ -induced catabolic status of human OA chondrocytes. <i>Rheumatology</i> , 2016, 56, kew411.	1.9	7
38	The alarmins S100A8 and S100A9 mediate acute pain in experimental synovitis. <i>Arthritis Research and Therapy</i> , 2020, 22, 199.	3.5	7
39	Increased IL-6 receptor expression and signaling in ageing cartilage can be explained by loss of TGF- $\beta$ -mediated IL-6 receptor suppression. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 773-782.	1.3	7
40	Treatment of collagenase-induced osteoarthritis with a viral vector encoding TSG-6 results in ectopic bone formation. <i>PeerJ</i> , 2018, 6, e4771.	2.0	7
41	Identification of TGF- $\beta$ -related genes regulated in murine osteoarthritis and chondrocyte hypertrophy by comparison of multiple microarray datasets. <i>Bone</i> , 2018, 116, 67-77.	2.9	6
42	Activin and Nodal Are Not Suitable Alternatives to TGF- $\beta$ for Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>Cartilage</i> , 2017, 8, 432-438.	2.7	5
43	TGF-beta blocks chondrocyte hypertrophy and maintains cell viability in cultured cartilage explants but does not protect against proteoglycan loss. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A137-A138.	1.3	4
44	Innate Immunity at the Core of Sex Differences in Osteoarthritic Pain?. <i>Frontiers in Pharmacology</i> , 2022, 13, .	3.5	4
45	WISP1 aggravates osteoarthritis by modulation of TGF-beta signaling and positive regulation of canonical Wnt signaling. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A44-A45.	1.3	3
46	Inducible chondrocyte-specific overexpression of BMP2 in young mice results in severe aggravation of osteophyte formation in experimental OA without altering cartilage damage. <i>Osteoarthritis and Cartilage</i> , 2013, 21, S67.	1.3	2
47	Synovial Wnt and WISP1 expression induces cartilage damage by skewing of TGF-beta signaling via the canonical Wnt signaling pathway. <i>Osteoarthritis and Cartilage</i> , 2013, 21, S54.	1.3	1
48	WNT and WISP1 expression in the synovium induces production of cartilage-degrading metalloproteinases by synovial cells. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S447-S448.	1.3	1
49	A4.6 $\beta$ ...TGF- $\beta$ is a potent inducer of nerve growth factor in articular cartilage via the ALK5-SMAD2/3 pathway. Potential role in OA related pain?. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, A38.2-A38.	0.9	1
50	Activin receptor-like kinase ALK5 and ALK1 are both required for TGF- $\beta$ -initiated chondrogenic differentiation of mesenchymal stem cells. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A79.	1.3	1
51	O55 SYNOVIAL EXPRESSION OF CANONICALWNT INDUCES CHONDROCYTE PHENOTYPE CHANGE AND OA-LIKE CARTILAGE DAMAGE. <i>Osteoarthritis and Cartilage</i> , 2010, 18, S32-S33.	1.3	0
52	73 SYNOVIAL OVEREXPRESSION OF WNTS AND WISP1 LEADS TO OA-LIKE CARTILAGE DAMAGE AND CHONDROCYTE PHENOTYPE CHANGE BY SKEWED TGF-BETA SIGNALING. <i>Osteoarthritis and Cartilage</i> , 2011, 19, S39.	1.3	0
53	Deleterious interaction between BMP2 and TGF-beta signaling in articular chondrocytes: harmful role for BMP2 in OA?. <i>Osteoarthritis and Cartilage</i> , 2012, 20, S138.	1.3	0
54	Synovial Wnt AND WISP1 expression induces cartilage damage by skewing of TGF-beta signaling and reduction of the anti-hypertrophic factor Sox9. <i>Osteoarthritis and Cartilage</i> , 2012, 20, S25.	1.3	0

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55	Gene expression analysis of OA synovium reveals elevation of TGF- $\beta$ responsive genes in OA-related fibrosis. <i>Osteoarthritis and Cartilage</i> , 2013, 21, S285-S286.	1.3	0
56	AB0120â€¦Elevated LYSYL hydroxylase 2B expression and pyridinoline cross-link formation in collagenase-induced OA; the cause of OA-related fibrosis?. <i>Annals of the Rheumatic Diseases</i> , 2013, 71, 644.10-644.	0.9	0
57	Elevated levels of BMP2 compensate for loss of TGF-beta on proteoglycan level in articular cartilage during experimental osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S342.	1.3	0
58	TGF $\beta$ 2 modulates its own signaling in chondrogenic cells by inducing ALK5 and dampening ALK1. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S440-S441.	1.3	0
59	BMP2 requires TGF-beta to induce osteophytes during experimental OA. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S16-S17.	1.3	0
60	A role for TGF- $\beta$ 2 in osteoarthritis-related pain?. <i>International Journal of Clinical Rheumatology</i> , 2015, 10, 309-311.	0.3	0
61	TGF $\beta$ 2, Activin A and nodal activate SMAD2/3 signaling in mesenchymal stem cells, but only TGF $\beta$ 2 initiates chondrogenic differentiation. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A381.	1.3	0
62	TGF- $\beta$ 2 is a potent inducer of nerve growth factor in articular cartilage via the ALK5-Smad2/3 pathway. potential role in OA related pain?. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A62.	1.3	0
63	Inflammatory factors do not enable BMP2-induced osteophyte formation. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S396.	1.3	0
64	IL37 suppresses IL-1 $\beta$ -induced pro-inflammatory cytokine and catabolic enzyme production in primary human oa chondrocytes: protection against cartilage degradation. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S336-S337.	1.3	0
65	Year in review: osteoarthritis biology. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S6.	1.3	0
66	SMAD3 and smad4 have a more dominant role than smad2 in chondrogenic induction of mesenchymal stem cells. <i>Osteoarthritis and Cartilage</i> , 2017, 25, S166-S167.	1.3	0
67	Identification of TGF $\beta$ 2-related genes regulated in murine osteoarthritis and chondrocyte hypertrophy by comparing multiple microarray datasets. <i>Osteoarthritis and Cartilage</i> , 2017, 25, S211-S212.	1.3	0
68	Inflammation induced SMAD2/3 linker modifications alter TGF $\beta$ 2 signaling dynamics via TAK1. <i>Osteoarthritis and Cartilage</i> , 2017, 25, S163-S164.	1.3	0
69	04.18â€¦Bmp2-induced osteophyte formation is facilitated by tgfb2 but not by inflammatory factors. , 2017, , .		0
70	02.26â€¦Increased expression of s100a9 regulates pain response during experimentally induced acute synovitis. , 2017, , .		0
71	O012â€¦Joint-specific synovial TGF- $\beta$ 1-induced AXL expression determines the outcome of inflammatory arthritis between ankle and knee joints. , 2018, , .		0
72	Chondrogenic differentiation of bone marrow-derived mesenchymal stem cells with TGF-BETA, BMP2, GDF5 or combinations thereof does not result in a nucleus pulposus cell phenotype. <i>Osteoarthritis and Cartilage</i> , 2018, 26, S420-S421.	1.3	0

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73	S100A9 induces nociceptive pain but is not involved in allodynia in acute experimental synovitis. Osteoarthritis and Cartilage, 2019, 27, S75.	1.3	0
74	IL37 ameliorates experimental murine osteoarthritis. Osteoarthritis and Cartilage, 2019, 27, S483-S484.	1.3	0
75	P151â€¦Nociceptive pain in acute experimental synovitis is partly mediated by the alarmin S100A9. , 2019, , .		0
76	FRI0526â€¦IL37 AMELIORATES EXPERIMENTAL MURINE OSTEOARTHRITIS. , 2019, , .		0
77	OP0225â€¦S100a9 mediates acute nociceptive pain in experimental synovitis. , 2018, , .		0