

# Cay M Kielty

## List of Publications by Year in Descending Order

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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.

75 papers	6,266 citations	45 h-index	76 g-index
76 ext. papers	6,793 ext. citations	5.6 avg, IF	5.56 L-index

#	Paper	IF	Citations
75	Inter-Inhibitor heavy chain-1 has an integrin-like 3D structure mediating immune regulatory activities and matrix stabilization during ovulation. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 5278-5291	5.4	6
74	Recombinant Extracellular Matrix Protein Fragments Support Human Embryonic Stem Cell Chondrogenesis. <i>Tissue Engineering - Part A</i> , <b>2018</b> , 24, 968-978	3.9	18
73	ADAMTS10-mediated tissue disruption in Weill-Marchesani syndrome. <i>Human Molecular Genetics</i> , <b>2018</b> , 27, 3675-3687	5.6	26
72	Extracellular Matrix Molecule-Based Capture of Mesenchymal Stromal Cells Under Flow. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1722, 249-260	1.4	
71	Fell-Muir Lecture: Fibrillin microfibrils: structural tensometers of elastic tissues?. <i>International Journal of Experimental Pathology</i> , <b>2017</b> , 98, 172-190	2.8	11
70	Liposome-Indocyanine Green Nanoprobes for Optical Labeling and Tracking of Human Mesenchymal Stem Cells Post-Transplantation In Vivo. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700374	10.1	15
69	Interleukin-1 primes human mesenchymal stem cells towards an anti-inflammatory and pro-trophic phenotype in vitro. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 79	8.3	107
68	ADAMTS-10 and -6 differentially regulate cell-cell junctions and focal adhesions. <i>Scientific Reports</i> , <b>2016</b> , 6, 35956	4.9	34
67	Independent multimerization of Latent TGF $\beta$ Binding Protein-1 stabilized by cross-linking and enhanced by heparan sulfate. <i>Scientific Reports</i> , <b>2016</b> , 6, 34347	4.9	17
66	A high-content platform to characterise human induced pluripotent stem cell lines. <i>Methods</i> , <b>2016</b> , 96, 85-96	4.6	28
65	Leri/Wpleonosteosis, a congenital rheumatic disease, results from microduplication at 8q22.1 encompassing GDF6 and SDC2 and provides insight into systemic sclerosis pathogenesis. <i>Annals of the Rheumatic Diseases</i> , <b>2015</b> , 74, 1249-56	2.4	19
64	Comparative quantification of the surfaceome of human multipotent mesenchymal progenitor cells. <i>Stem Cell Reports</i> , <b>2015</b> , 4, 473-88	8	33
63	Immobilisation of a fibrillin-1 fragment enhances the biocompatibility of PTFE. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 116, 544-52	6	15
62	Epithelial-mesenchymal status influences how cells deposit fibrillin microfibrils. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 158-71	5.3	31
61	Elastic fibres in health and disease. <i>Expert Reviews in Molecular Medicine</i> , <b>2013</b> , 15, e8	6.7	134
60	Fibrillin-1 mutations causing Weill-Marchesani syndrome and acromicric and geleophysic dysplasias disrupt heparan sulfate interactions. <i>PLoS ONE</i> , <b>2012</b> , 7, e48634	3.7	43
59	Inhibition of platelet-derived growth factor receptor signaling regulates Oct4 and Nanog expression, cell shape, and mesenchymal stem cell potency. <i>Stem Cells</i> , <b>2012</b> , 30, 548-60	5.8	58

58	Assembly of fibrillin microfibrils governs extracellular deposition of latent TGF beta. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 3006-18	5.3	131
57	Microfibrils and fibrillin-1 induce integrin-mediated signaling, proliferation and migration in human endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 299, C977-87	5.4	24
56	Platelet-derived growth factor receptors regulate mesenchymal stem cell fate: implications for neovascularization. <i>Expert Opinion on Biological Therapy</i> , <b>2010</b> , 10, 57-71	5.4	43
55	Neuropilin-1 regulates platelet-derived growth factor receptor signalling in mesenchymal stem cells. <i>Biochemical Journal</i> , <b>2010</b> , 427, 29-40	3.8	66
54	Differential regulation of elastic fiber formation by fibulin-4 and -5. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 24553-67	5.4	86
53	Defining elastic fiber interactions by molecular fishing: an affinity purification and mass spectrometry approach. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 2715-32	7.6	24
52	Biomolecular analysis of elastic fibre molecules. <i>Methods</i> , <b>2008</b> , 45, 42-52	4.6	11
51	Surface functionalization of polyurethane for the immobilization of bioactive moieties on tissue scaffolds. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2240		38
50	Heparan sulfate regulates fibrillin-1 N- and C-terminal interactions. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 27017-27	5.4	44
49	Fibrillin-1 microfibril deposition is dependent on fibronectin assembly. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 2696-704	5.3	108
48	The role of endothelial cell attachment to elastic fibre molecules in the enhancement of monolayer formation and retention, and the inhibition of smooth muscle cell recruitment. <i>Biomaterials</i> , <b>2007</b> , 28, 5307-18	15.6	54
47	Mesenchymal stem cells and neovascularization: role of platelet-derived growth factor receptors. <i>Journal of Cellular and Molecular Medicine</i> , <b>2007</b> , 11, 1012-30	5.6	133
46	Vascular endothelial growth factor can signal through platelet-derived growth factor receptors. <i>Journal of Cell Biology</i> , <b>2007</b> , 177, 489-500	7.3	219
45	Fibrillin-1 regulates the bioavailability of TGFbeta1. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 355-67	7.3	212
44	Cell adhesion to fibrillin-1: identification of an Arg-Gly-Asp-dependent synergy region and a heparin-binding site that regulates focal adhesion formation. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 1383-92	5.3	69
43	Fibulin-5 binds human smooth-muscle cells through alpha5beta1 and alpha4beta1 integrins, but does not support receptor activation. <i>Biochemical Journal</i> , <b>2007</b> , 405, 417-28	3.8	66
42	Platelet-derived growth factor receptor-alpha is a key determinant of smooth muscle alpha-actin filaments in bone marrow-derived mesenchymal stem cells. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2007</b> , 39, 379-91	5.6	49
41	The morphology of adsorbed extracellular matrix assemblies is critically dependent on solution calcium concentration. <i>Matrix Biology</i> , <b>2007</b> , 26, 156-66	11.4	11

40	Applying elastic fibre biology in vascular tissue engineering. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2007</b> , 362, 1293-312	5.8	53
39	Elastic fibres in health and disease. <i>Expert Reviews in Molecular Medicine</i> , <b>2006</b> , 8, 1-23	6.7	189
38	Nanostructure of fibrillin-1 reveals compact conformation of EGF arrays and mechanism for extensibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11922-7	11.5	48
37	Alpha2(VIII) collagen substrata enhance endothelial cell retention under acute shear stress flow via an alpha2beta1 integrin-dependent mechanism: an in vitro and in vivo study. <i>Circulation</i> , <b>2006</b> , 114, 820-9	16.7	24
36	Marfan syndrome-causing mutations in fibrillin-1 result in gross morphological alterations and highlight the structural importance of the second hybrid domain. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 31854-62	5.4	24
35	Reduction of myointimal hyperplasia after arterial anastomosis by local injection of transforming growth factor beta3. <i>Journal of Vascular Surgery</i> , <b>2006</b> , 43, 142-9	3.5	16
34	Proteomic analysis of fibrillin-rich microfibrils. <i>Proteomics</i> , <b>2006</b> , 6, 111-22	4.8	78
33	Cell-matrix biology in vascular tissue engineering. <i>Journal of Anatomy</i> , <b>2006</b> , 209, 495-502	2.9	44
32	PCL-PU composite vascular scaffold production for vascular tissue engineering: attachment, proliferation and bioactivity of human vascular endothelial cells. <i>Biomaterials</i> , <b>2006</b> , 27, 3608-16	15.6	114
31	Coacervation is promoted by molecular interactions between the PF2 segment of fibrillin-1 and the domain 4 region of tropoelastin. <i>Biochemistry</i> , <b>2005</b> , 44, 10271-81	3.2	55
30	The role of transforming growth factor beta1 in the vascular system. <i>Cardiovascular Pathology</i> , <b>2005</b> , 14, 28-36	3.8	48
29	Fibulin-5 interacts with fibrillin-1 molecules and microfibrils. <i>Biochemical Journal</i> , <b>2005</b> , 388, 1-5	3.8	90
28	Substrate chemistry influences the morphology and biological function of adsorbed extracellular matrix assemblies. <i>Biomaterials</i> , <b>2005</b> , 26, 7192-206	15.6	52
27	Homotypic fibrillin-1 interactions in microfibril assembly. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 5013-21	3.41	64
26	Fibrillin-1 interactions with heparin. Implications for microfibril and elastic fiber assembly. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 30526-37	5.4	77
25	Fibrillin microfibrils. <i>Advances in Protein Chemistry</i> , <b>2005</b> , 70, 405-36		105
24	Fibronectin regulates latent transforming growth factor-beta (TGF beta) by controlling matrix assembly of latent TGF beta-binding protein-1. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 18871-80	5.4	226
23	Expression and supramolecular assembly of recombinant alpha1(viii) and alpha2(viii) collagen homotrimers. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 21469-77	5.4	49

22	Molecular basis of elastic fiber formation. Critical interactions and a tropoelastin-fibrillin-1 cross-link. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 23748-58	5.4	124
21	Direct cell contact influences bone marrow mesenchymal stem cell fate. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2004</b> , 36, 714-27	5.6	169
20	Substrate-dependent morphology of supramolecular assemblies: fibrillin and type-VI collagen microfibrils. <i>Biophysical Journal</i> , <b>2004</b> , 86, 3211-22	2.9	41
19	Raman microscopy and X-ray diffraction, a combined study of fibrillin-rich microfibrillar elasticity. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41189-97	5.4	22
18	The supramolecular organization of collagen VI microfibrils. <i>Journal of Molecular Biology</i> , <b>2003</b> , 330, 2973-97	3.9	80
17	Fibrillin microfibrils are stiff reinforcing fibres in compliant tissues. <i>Journal of Molecular Biology</i> , <b>2003</b> , 332, 183-93	6.5	120
16	Cell adhesion to fibrillin-1 molecules and microfibrils is mediated by alpha 5 beta 1 and alpha v beta 3 integrins. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 34605-16	5.4	145
15	Fibrillin: from microfibril assembly to biomechanical function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 357, 207-17	5.8	82
14	Elastic fibres. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 2817-2828	5.3	622
13	Elastic fibres. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 2817-28	5.3	567
12	Upregulation of collagen VIII following porcine coronary artery angioplasty is related to smooth muscle cell migration not angiogenesis. <i>International Journal of Experimental Pathology</i> , <b>2001</b> , 82, 295-302	2.8	20
11	The supramolecular organization of fibrillin-rich microfibrils. <i>Journal of Cell Biology</i> , <b>2001</b> , 152, 1045-56	7.3	136
10	Fibrillin-rich microfibrils are reduced in photoaged skin. Distribution at the dermal-epidermal junction. <i>Journal of Investigative Dermatology</i> , <b>1999</b> , 112, 782-7	4.3	132
9	Fibrillin degradation by matrix metalloproteinases: implications for connective tissue remodelling. <i>Biochemical Journal</i> , <b>1999</b> , 340, 171-181	3.8	194
8	Purification of fibrillin-containing microfibrils and collagen VI microfibrils by density gradient centrifugation. <i>Analytical Biochemistry</i> , <b>1998</b> , 255, 108-12	3.1	22
7	The Tight skin mouse: demonstration of mutant fibrillin-1 production and assembly into abnormal microfibrils. <i>Journal of Cell Biology</i> , <b>1998</b> , 140, 1159-66	7.3	97
6	Microfibrillar elements of the dermal matrix. <i>Microscopy Research and Technique</i> , <b>1997</b> , 38, 413-27	2.8	60
5	Fibrillin: evidence that chondroitin sulphate proteoglycans are components of microfibrils and associate with newly synthesised monomers. <i>FEBS Letters</i> , <b>1996</b> , 386, 169-73	3.8	48

4	Truncated profibrillin of a Marfan patient is of apparent similar size as fibrillin: intracellular retention leads to over-N-glycosylation. <i>Journal of Molecular Biology</i> , <b>1995</b> , 248, 901-9	6.5	29
3	Catabolism of intact fibrillin microfibrils by neutrophil elastase, chymotrypsin and trypsin. <i>FEBS Letters</i> , <b>1994</b> , 351, 85-9	3.8	53
2	The role of calcium in the organization of fibrillin microfibrils. <i>FEBS Letters</i> , <b>1993</b> , 336, 323-6	3.8	76
1	The Collagen Family: Structure, Assembly, and Organization in the Extracellular Matrix159-221		88