Peter D Yurchenco

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112 papers	13,459 citations	58 h-index	116 g-index
116 ext. papers	14,471 ext. citations	7.4 avg, IF	6.51 L-index

#	Paper	IF	Citations
112	Form and function: the laminin family of heterotrimers. *Developmental Dynamics*, **2000**, 218, 213-34	2.9	933
111	Molecular architecture of basement membranes. *FASEB Journal*, **1990**, 4, 1577-90	0.9	797
110	A new nomenclature for the laminins. *Matrix Biology*, **1994**, 14, 209-11	11.4	679
109	A simplified laminin nomenclature. *Matrix Biology*, **2005**, 24, 326-32	11.4	663
108	Laminin functions in tissue morphogenesis. *Annual Review of Cell and Developmental Biology*, **2004**, 20, 255-84	12.6	566
107	Basement membranes: cell scaffoldings and signaling platforms. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3,	10.2	553
106	Rac1 orientates epithelial apical polarity through effects on basolateral laminin assembly. *Nature Cell Biology*, **2001**, 3, 831-8	23.4	377
105	Laminin mediates tissue-specific gene expression in mammary epithelia. *Journal of Cell Biology*, **1995**, 129, 591-603	7.3	336
104	Integrin-linked kinase (ILK) is required for polarizing the epiblast, cell adhesion, and controlling actin accumulation. *Genes and Development*, **2003**, 17, 926-40	12.6	316
103	Self-assembly of basement membrane collagen. *Biochemistry*, **1984**, 23, 1839-50	3.2	314
102	Basement membrane assembly, stability and activities observed through a developmental lens. *Matrix Biology*, **2004**, 22, 521-38	11.4	292
101	Basement membrane structure in situ: evidence for lateral associations in the type IV collagen network. *Journal of Cell Biology*, **1987**, 105, 2559-68	7.3	286
100	Basal lamina assembly. *Current Opinion in Cell Biology*, **1994**, 6, 674-81	9	274
99	Matrix assembly, regulation, and survival functions of laminin and its receptors in embryonic stem cell differentiation. *Journal of Cell Biology*, **2002**, 157, 1279-90	7.3	269
98	Laminins in basement membrane assembly. *Cell Adhesion and Migration*, **2013**, 7, 56-63	3.2	261
97	Laminin polymerization induces a receptor-cytoskeleton network. *Journal of Cell Biology*, **1999**, 145, 619-31	7.3	253
96	The nature and biology of basement membranes. *Matrix Biology*, **2017**, 57-58, 1-11	11.4	248

95	Developmental and pathogenic mechanisms of basement membrane assembly. *Current Pharmaceutical Design*, **2009**, 15, 1277-94	3.3	246
94	Laminin forms an independent network in basement membranes. *Journal of Cell Biology*, **1992**, 117, 1119-33	7.3	236
93	The role of laminin in embryonic cell polarization and tissue organization. *Developmental Cell*, **2003**, 4, 613-24	10.2	231
92	Self-assembly of laminin isoforms. *Journal of Biological Chemistry*, **1997**, 272, 31525-32	5.4	196
91	Role of alpha-dystroglycan as a Schwann cell receptor for Mycobacterium leprae. *Science*, **1998**, 282, 2076-9	33.3	170
90	Binding of laminin to type IV collagen: a morphological study. *Journal of Cell Biology*, **1985**, 100, 1848-53	7.3	169
89	Endothelial cells interact with the core protein of basement membrane perlecan through beta 1 and beta 3 integrins: an adhesion modulated by glycosaminoglycan. *Journal of Cell Biology*, **1992**, 119, 945-59	7.3	167
88	Developmental expression of perlecan during murine embryogenesis. *Developmental Dynamics*, **1997**, 210, 130-45	2.9	161
87	Structure of low density heparan sulfate proteoglycan isolated from a mouse tumor basement membrane. *Journal of Molecular Biology*, **1987**, 197, 297-313	6.5	160
86	Models for the self-assembly of basement membrane. *Journal of Histochemistry and Cytochemistry*, **1986**, 34, 93-102	3.4	146
85	Neural targeting of Mycobacterium leprae mediated by the G domain of the laminin-alpha2 chain. *Cell*, **1997**, 88, 811-21	56.2	140
84	Role of laminin terminal globular domains in basement membrane assembly. *Journal of Biological Chemistry*, **2007**, 282, 21437-47	5.4	133
83	Regulation of neurite outgrowth by integrin activation. *Journal of Neuroscience*, **2000**, 20, 6551-60	6.6	122
82	Mild congenital muscular dystrophy in two patients with an internally deleted laminin alpha2-chain. *Human Molecular Genetics*, **1997**, 6, 747-52	5.6	119
81	The alpha chain of laminin-1 is independently secreted and drives secretion of its beta- and gamma-chain partners. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 10189-94	11.5	117
80	Laminin-sulfatide binding initiates basement membrane assembly and enables receptor signaling in Schwann cells and fibroblasts. *Journal of Cell Biology*, **2005**, 169, 179-89	7.3	115
79	Terminal short arm domains of basement membrane laminin are critical for its self-assembly. *Journal of Cell Biology*, **1990**, 110, 825-32	7.3	108
78	A laminin 511 matrix is regulated by TAZ and functions as the ligand for the 6B1 integrin to sustain breast cancer stem cells. *Genes and Development*, **2015**, 29, 1-6	12.6	104

77	Laminin alpha subunits and their role in C. elegans development. *Development (Cambridge)*, **2003**, 130, 3343-58	6.6	103
76	Recombinant laminin-8 (alpha(4)beta(1)gamma(1)). Production, purification,and interactions with integrins. *Journal of Biological Chemistry*, **2000**, 275, 14853-9	5.4	103
75	Division of labor among the alpha6beta4 integrin, beta1 integrins, and an E3 laminin receptor to signal morphogenesis and beta-casein expression in mammary epithelial cells. *Molecular Biology of the Cell*, **1999**, 10, 2817-28	3.5	103
74	Mapping of network-forming, heparin-binding, and alpha 1 beta 1 integrin-recognition sites within the alpha-chain short arm of laminin-1. *Journal of Biological Chemistry*, **1995**, 270, 9398-406	5.4	101
73	Cell and heparin binding in the distal long arm of laminin: identification of active and cryptic sites with recombinant and hybrid glycoprotein. *Journal of Cell Biology*, **1993**, 123, 1255-68	7.3	101
72	Assembly and tissue functions of early embryonic laminins and netrins. *Current Opinion in Cell Biology*, **2004**, 16, 572-9	9	92
71	Utrophin binds laterally along actin filaments and can couple costameric actin with sarcolemma when overexpressed in dystrophin-deficient muscle. *Molecular Biology of the Cell*, **2002**, 13, 1512-21	3.5	88
70	Domain-specific activation of neuronal migration and neurite outgrowth-promoting activities of laminin. *Neuron*, **1994**, 13, 117-30	13.9	88
69	Abnormal muscle mechanosignaling triggers cardiomyopathy in mice with Marfan syndrome. *Journal of Clinical Investigation*, **2014**, 124, 1329-39	15.9	86
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67	The laminin alpha2-chain short arm mediates cell adhesion through both the alpha1beta1 and alpha2beta1 integrins. *Journal of Biological Chemistry*, **1997**, 272, 29330-6	5.4	81
66	Recognition of the N-terminal modules of thrombospondin-1 and thrombospondin-2 by alpha6beta1 integrin. *Journal of Biological Chemistry*, **2003**, 278, 40679-87	5.4	81
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64	Identification of dystroglycan as a second laminin receptor in oligodendrocytes, with a role in myelination. *Development (Cambridge)*, **2007**, 134, 1723-36	6.6	73
63	Contributions of the LG modules and furin processing to laminin-2 functions. *Journal of Biological Chemistry*, **2002**, 277, 18928-37	5.4	73
62	Equilibration of fucosyl glycoprotein pools in HeLa cells. *Biochemistry*, **1977**, 16, 944-53	3.2	70
61	Dystroglycan binding to laminin alpha1LG4 module influences epithelial morphogenesis of salivary gland and lung in vitro. *Differentiation*, **2001**, 69, 121-34	3.5	69
60	Laminin-induced clustering of dystroglycan on embryonic muscle cells: comparison with agrin-induced clustering. *Journal of Cell Biology*, **1997**, 136, 1047-58	7.3	67

59	Laminin assembles into separate basement membrane and fibrillar matrices in Schwann cells. *Journal of Cell Science*, **2002**, 115, 1005-1015	5.3	66
58	Laminin assembles into separate basement membrane and fibrillar matrices in Schwann cells. *Journal of Cell Science*, **2002**, 115, 1005-15	5.3	64
57	Modulation of angiogenesis in vitro by laminin-entactin complex. *Developmental Biology*, **1994**, 164, 197-206	3.1	63
56	Cdc42 is crucial for the establishment of epithelial polarity during early mammalian development. *Developmental Dynamics*, **2007**, 236, 2767-78	2.9	62
55	Basement membranes: molecular organization and function in development and disease. *Current Opinion in Cell Biology*, **1989**, 1, 983-8	9	61
54	Assembly of basement membranes. *Annals of the New York Academy of Sciences*, **1990**, 580, 195-213	6.5	54
53	beta1 integrin is necessary for ureteric bud branching morphogenesis and maintenance of collecting duct structural integrity. *Development (Cambridge)*, **2009**, 136, 3357-66	6.6	52
52	Integrating Activities of Laminins that Drive Basement Membrane Assembly and Function. *Current Topics in Membranes*, **2015**, 76, 1-30	2.2	51
51	Crystal structure and cell surface anchorage sites of laminin alpha1LG4-5. *Journal of Biological Chemistry*, **2007**, 282, 11573-81	5.4	49
50	Basement membrane assembly. *Methods in Enzymology*, **1994**, 245, 489-518	1.7	49
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37	The molecular structure of human tissue type XV presents a unique conformation among the collagens. *Biochemical Journal*, **2007**, 404, 535-44	3.8	33
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35	Chimeric protein repair of laminin polymerization ameliorates muscular dystrophy phenotype. *Journal of Clinical Investigation*, **2017**, 127, 1075-1089	15.9	31
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33	Localization of heparin binding activity in recombinant laminin G domain. *FEBS Journal*, **1997**, 250, 138-43		27
32	Neuronal receptors mediating responses to antibodyactivated laminin-1. *Journal of Neuroscience*, **1998**, 18, 9703-15	6.6	27
31	Laminin self-assembly: a three-arm interaction hypothesis for the formation of a network in basement membranes. *Contributions To Nephrology*, **1994**, 107, 47-56	1.6	26
30	Renal collecting system growth and function depend upon embryonic β1 laminin expression. *Development (Cambridge)*, **2011**, 138, 4535-44	6.6	25
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26	High resolution platinum-carbon replication of freeze-dried basement membrane. *Microscopy Research and Technique*, **1994**, 28, 13-28	2.8	23
25	Analysis of integrin functions in peri-implantation embryos, hematopoietic system, and skin. *Methods in Enzymology*, **2007**, 426, 239-89	1.7	22
24	Conjugation of LG domains of agrins and perlecan to polymerizing laminin-2 promotes acetylcholine receptor clustering. *Journal of Biological Chemistry*, **2005**, 280, 41449-57	5.4	22

23	Whole-Genome Sequencing of Invasion-Resistant Cells Identifies Laminin 2 as a Host Factor for Bacterial Invasion. *MBio*, **2017**, 8,	7.8	21
22	Integrin alpha6 maintains the structural integrity of the kidney collecting system. *Matrix Biology*, **2017**, 57-58, 244-257	11.4	20
21	Pathogenicity of a Human Laminin 2 Mutation Revealed in Models of Alport Syndrome. *Journal of the American Society of Nephrology: JASN*, **2018**, 29, 949-960	12.7	20
20	Assembly of Laminin and Type IV Collagen into Basement Membrane Networks **1994**, 351-388		20
19	Integrin 31 regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. *Molecular Biology of the Cell*, **2015**, 26, 1857-74	3.5	16
18	Supramolecular Organization of Basement Membranes **1993**, 19-47		13
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16	Type IV Collagen 7S Tetramer Formation: Aspects of Kinetics and Thermodynamics. *Annals of the New York Academy of Sciences*, **1985**, 460, 530-533	6.5	9
15	Chimeric protein identification of dystrophic, Pierson and other laminin polymerization residues. *Matrix Biology*, **2018**, 67, 32-46	11.4	8
14	The ultrastructural organization and architecture of basement membranes. *Novartis Foundation Symposium*, **1984**, 108, 6-24		8
13	Solute partitioning and filtration by extracellular matrices. *American Journal of Physiology - Renal Physiology*, **2009**, 297, F1092-100	4.3	7
12	Linker Protein Repair of LAMA2 Dystrophic Neuromuscular Basement Membranes. *Frontiers in Molecular Neuroscience*, **2019**, 12, 305	6.1	6
11	A deletion in the N-terminal polymerizing domain of laminin 2 is a new mouse model of chronic nephrotic syndrome. *Kidney International*, **2020**, 98, 133-146	9.9	4
10	Analysis of laminin structure and function with recombinant glycoprotein expressed in insect cells. *Methods in Molecular Biology*, **2000**, 139, 27-37	1.4	3
9	Binding of the renal epithelial cell line LLC-PK1 to laminin is regulated by protein kinase C. *Journal of the American Society of Nephrology: JASN*, **1999**, 10, 1214-23	12.7	3
8	Form and function: The laminin family of heterotrimers		3
7	Laminin Polymerization and Binding to Glycosaminoglycans: A Hypothesis for Modulation of Basement Membrane Structure. *Springer Series in Biophysics*, **1989**, 357-366		2
6	Binding of Laminin to Type IV Collagen: A Morphological Study. *Annals of the New York Academy of Sciences*, **1985**, 460, 401-403	6.5	1

5	Developmental expression of perlecan during murine embryogenesis		1
4	Organization of the laminin polymer node. *Matrix Biology*, **2021**, 98, 49-63	11.4	0
3	Evidence for lateral associations in the Type IV collagen network from freeze-dried platinum-carbon replicated amniotic basement membrane. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1987**, 45, 968-969		
2	Laminin matrix assembly and the mediation of epithelial differentiation. *FASEB Journal*, **2007**, 21, A90	0.9	
1	Merosin deficient congenital muscular dystrophy type 1A: An international workshop on the road to therapy 15-17 November 2019, Maastricht, the Netherlands. *Neuromuscular Disorders*, **2021**, 31, 673-680	2.9	