

Kiyotoshi Sekiguchi

List of Publications by Year in descending order

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105
papers

10,453
citations

57631

44
h-index

34900

98
g-index

106
all docs

106
docs citations

106
times ranked

11503
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-organizing optic-cup morphogenesis in three-dimensional culture. <i>Nature</i> , 2011, 472, 51-56.	13.7	1,771
2	Self-Formation of Optic Cups and Storable Stratified Neural Retina from Human ESCs. <i>Cell Stem Cell</i> , 2012, 10, 771-785.	5.2	1,243
3	A simplified laminin nomenclature. <i>Matrix Biology</i> , 2005, 24, 326-332.	1.5	760
4	A novel efficient feeder-free culture system for the derivation of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2014, 4, 3594.	1.6	511
5	Isolation of Human Induced Pluripotent Stem Cell-Derived Dopaminergic Progenitors by Cell Sorting for Successful Transplantation. <i>Stem Cell Reports</i> , 2014, 2, 337-350.	2.3	373
6	Ligand-binding specificities of laminin-binding integrins: A comprehensive survey of laminin-integrin interactions using recombinant $\alpha 3 \beta 1$, $\alpha 6 \beta 1$, $\alpha 7 \beta 1$ and $\alpha 6 \beta 4$ integrins. <i>Matrix Biology</i> , 2006, 25, 189-197.	1.5	355
7	Laminin E8 fragments support efficient adhesion and expansion of dissociated human pluripotent stem cells. <i>Nature Communications</i> , 2012, 3, 1236.	5.8	303
8	The Basement Membrane of Hair Follicle Stem Cells Is a Muscle Cell Niche. <i>Cell</i> , 2011, 144, 577-589.	13.5	288
9	Co-ordinated ocular development from human iPS cells and recovery of corneal function. <i>Nature</i> , 2016, 531, 376-380.	13.7	191
10	Isolation and Characterization of Laminin-10/11 Secreted by Human Lung Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 15854-15859.	1.6	187
11	Recombinant human laminin isoforms can support the undifferentiated growth of human embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 375, 27-32.	1.0	187
12	Modulation of Cell-adhesive Activity of Fibronectin by the Alternatively Spliced EDA Segment. <i>Journal of Cell Biology</i> , 1997, 139, 295-307.	2.3	180
13	Anti-laminin gamma-1 pemphigoid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2800-2805.	3.3	175
14	Purification and Characterization of Human Laminin-8. <i>Journal of Biological Chemistry</i> , 2001, 276, 17550-17558.	1.6	155
15	Integrin $\alpha 3 \beta 1$ -mediated interaction with laminin-5 stimulates adhesion, migration and invasion of malignant glioma cells. <i>Journal of Cell Biology</i> , 1998, 76, 63-72.		154
16	Laminin-10/11 and Fibronectin Differentially Regulate Integrin-dependent Rho and Rac Activation via p130Cas-CrkII-DOCK180 Pathway. <i>Journal of Biological Chemistry</i> , 2001, 276, 27090-27097.	1.6	151
17	Laminin 511 is a target antigen in autoimmune pancreatitis. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	151
18	Potential of the ligand-binding activity of integrin $\alpha 3 \beta 1$ via association with tetraspanin CD151. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1939-1944.	3.3	146

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19	Transcriptome-based systematic identification of extracellular matrix proteins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12849-12854.	3.3	127
20	Molecular Basis of Laminin-Integrin Interactions. Current Topics in Membranes, 2015, 76, 197-229.	0.5	108
21	Laminin-10/11 and Fibronectin Differentially Prevent Apoptosis Induced by Serum Removal via Phosphatidylinositol 3-Kinase/Akt- and MEK1/ERK-dependent Pathways. Journal of Biological Chemistry, 2002, 277, 19922-19928.	1.6	106
22	Laminin-511 is an epithelial message promoting dermal papilla development and function during early hair morphogenesis. Genes and Development, 2008, 22, 2111-2124.	2.7	105
23	Molecular Dissection of the α -Dystroglycan- and Integrin-binding Sites within the Globular Domain of Human Laminin-10. Journal of Biological Chemistry, 2004, 279, 10946-10954.	1.6	104
24	Breakdown of the reciprocal stabilization of QBRICK/Frem1, Fras1, and Frem2 at the basement membrane provokes Fraser syndrome-like defects. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11981-11986.	3.3	103
25	Genetic Analysis of Fin Development in Zebrafish Identifies Furin and Hemicentin1 as Potential Novel Fraser Syndrome Disease Genes. PLoS Genetics, 2010, 6, e1000907.	1.5	103
26	Localization of Laminin α 4-Chain in Developing and Adult Human Tissues. Journal of Histochemistry and Cytochemistry, 2002, 50, 1113-1130.	1.3	89
27	The Requirement of the Glutamic Acid Residue at the Third Position from the Carboxyl Termini of the Laminin β 3 Chains in Integrin Binding by Laminins. Journal of Biological Chemistry, 2007, 282, 11144-11154.	1.6	87
28	Characterization of the Ligand-Binding Specificities of Integrin α 3 β 1 and α 6 β 1 Using a Panel of Purified Laminin Isoforms Containing Distinct α Chains. Journal of Biochemistry, 2003, 134, 497-504.	0.9	75
29	The C-terminal Region of Laminin β 2 Chains Modulates the Integrin Binding Affinities of Laminins. Journal of Biological Chemistry, 2009, 284, 7820-7831.	1.6	72
30	Direct Binding of the EGF-like Domain of Neuregulin-1 to Integrins (α 3 β 1 and α 6 β 1) Is Involved in Neuregulin-1/ErbB Signaling. Journal of Biological Chemistry, 2010, 285, 31388-31398.	1.6	71
31	GPR56 Functions Together with α 3 β 1 Integrin in Regulating Cerebral Cortical Development. PLoS ONE, 2013, 8, e68781.	1.1	70
32	Rac regulates integrin-mediated endothelial cell adhesion and migration on laminin-8. Experimental Cell Research, 2004, 292, 67-77.	1.2	69
33	Polydom/SVEP1 Is a Ligand for Integrin α 9 β 1. Journal of Biological Chemistry, 2012, 287, 25615-25630.	1.6	67
34	Polydom Is an Extracellular Matrix Protein Involved in Lymphatic Vessel Remodeling. Circulation Research, 2017, 120, 1276-1288.	2.0	67
35	Molecular Basis of the Recognition of Nephronectin by Integrin α 8 β 1. Journal of Biological Chemistry, 2009, 284, 14524-14536.	1.6	65
36	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. Circulation Research, 2017, 120, 1263-1275.	2.0	59

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37	Activin A Binds to Perlecan through Its Pro-region That Has Heparin/Heparan Sulfate Binding Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 36645-36655.	1.6	58
38	Generation of safe and therapeutically effective human induced pluripotent stem cell-derived hepatocyte-like cells for regenerative medicine. <i>Hepatology Communications</i> , 2017, 1, 1058-1069.	2.0	57
39	Laminin Isoforms Containing the Î³3 Chain Are Unable to Bind to Integrins due to the Absence of the Glutamic Acid Residue Conserved in the C-terminal Regions of the Î³1 and Î³2 Chains. <i>Journal of Biological Chemistry</i> , 2008, 283, 28149-28157.	1.6	51
40	Basement membrane assembly of the integrin Î±8Î²1 ligand nephronectin requires Fraser syndrome-associated proteins. <i>Journal of Cell Biology</i> , 2012, 197, 677-689.	2.3	51
41	Laminin gamma2-chain fragment in the circulation: a prognostic indicator of epithelial tumor invasion. <i>Cancer Research</i> , 2003, 63, 222-9.	0.4	50
42	Regulation of Mesodermal Differentiation of Mouse Embryonic Stem Cells by Basement Membranes. <i>Journal of Biological Chemistry</i> , 2007, 282, 29701-29711.	1.6	49
43	Schwann Cell Myelination Requires Integration of Laminin Activities. <i>Journal of Cell Science</i> , 2012, 125, 4609-19.	1.2	49
44	Molecular Basis of Constitutive Production of Basement Membrane Components. <i>Journal of Biological Chemistry</i> , 2003, 278, 50691-50701.	1.6	47
45	Enrichment of high-functioning human iPS cell-derived hepatocyte-like cells for pharmaceutical research. <i>Biomaterials</i> , 2018, 161, 24-32.	5.7	47
46	Identification and characterization of photomedins: novel olfactomedin-domain-containing proteins with chondroitin sulphate-E-binding activity. <i>Biochemical Journal</i> , 2005, 389, 675-684.	1.7	46
47	Cross-talk between Integrin Î±6Î²4 and Insulin-like Growth Factor-1 Receptor (IGF1R) through Direct Î±6Î²4 Binding to IGF1 and Subsequent Î±6Î²4-IGF1-IGF1R Ternary Complex Formation in Anchorage-independent Conditions. <i>Journal of Biological Chemistry</i> , 2012, 287, 12491-12500.	1.6	44
48	The tetraspanin CD151 regulates cell morphology and intracellular signaling on lamininÎ±511. <i>FEBS Journal</i> , 2008, 275, 3335-3351.	2.2	43
49	Laminin isoforms in human embryonic stem cells: synthesis, receptor usage and growth support. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2622-2633.	1.6	43
50	Identification of a novel cell-adhesive protein spatiotemporally expressed in the basement membrane of mouse developing hair follicle. <i>Experimental Cell Research</i> , 2005, 306, 9-23.	1.2	41
51	Structural mechanism of laminin recognition by integrin. <i>Nature Communications</i> , 2021, 12, 4012.	5.8	41
52	Expression of MAEG, a novel basement membrane protein, in mouse hair follicle morphogenesis. <i>Experimental Cell Research</i> , 2005, 303, 148-159.	1.2	39
53	Selective Laminin-Directed Differentiation of Human Induced Pluripotent Stem Cells into Distinct Ocular Lineages. <i>Cell Reports</i> , 2018, 25, 1668-1679.e5.	2.9	39
54	Novel Peptide Ligands for Integrin Î±6Î²1 Selected from a Phage Display Library. <i>Journal of Biochemistry</i> , 1996, 120, 445-451.	0.9	38

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55	Mechanistic basis for the recognition of laminin-511 by $\alpha 6 \beta 1$ integrin. <i>Science Advances</i> , 2017, 3, e1701497.	4.7	38
56	Laminin-guided highly efficient endothelial commitment from human pluripotent stem cells. <i>Scientific Reports</i> , 2016, 6, 35680.	1.6	37
57	Molecular Basis of the Ligand Binding Specificity of $\alpha 8 \beta 1$ Integrin. <i>Journal of Biological Chemistry</i> , 2016, 291, 11551-11565.	1.6	36
58	Downregulation of laminin $\alpha 4$ chain expression inhibits glioma invasion in vitro and in vivo. <i>International Journal of Cancer</i> , 2005, 117, 41-50.	2.3	35
59	Paxillin association in vitro with integrin cytoplasmic domain peptides. <i>FEBS Letters</i> , 1996, 399, 53-58.	1.3	34
60	Abrogation of lung metastasis of human fibrosarcoma cells by ribozyme-mediated suppression of integrin $\alpha 6$ subunit expression. , 1996, 65, 519-524.		34
61	Laminin 411 and 511 promote the cholangiocyte differentiation of human induced pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 91-96.	1.0	34
62	Probing the integrin-binding site within the globular domain of laminin-511 with the function-blocking monoclonal antibody 4C7. <i>Matrix Biology</i> , 2006, 25, 112-117.	1.5	33
63	Differential expression of laminin α chains during proliferative and differentiation stages in a model for skin morphogenesis. <i>Matrix Biology</i> , 2000, 19, 637-647.	1.5	28
64	Distinct Structural Requirements for Interaction of the Integrins $\alpha 5 \beta 1$, $\alpha v \beta 5$, and $\alpha v \beta 6$ with the Central Cell Binding Domain in Fibronectin. <i>Cell Adhesion and Communication</i> , 1996, 4, 237-250.	1.7	27
65	Probing the interaction of tetraspanin CD151 with integrin $\alpha 3 \beta 1$ using a panel of monoclonal antibodies with distinct reactivities toward the CD151-integrin $\alpha 3 \beta 1$ complex. <i>Biochemical Journal</i> , 2008, 415, 417-427.	1.7	25
66	Nephronectin binds to heparan sulfate proteoglycans via its MAM domain. <i>Matrix Biology</i> , 2013, 32, 188-195.	1.5	22
67	A Novel Fluorescent Reporter System Identifies Laminin-511/521 as Potent Regulators of Cardiomyocyte Maturation. <i>Scientific Reports</i> , 2020, 10, 4249.	1.6	22
68	Three-dimensional cell shapes and arrangements in human sweat glands as revealed by whole-mount immunostaining. <i>PLoS ONE</i> , 2017, 12, e0178709.	1.1	22
69	Isolation and Characterization of Sweat Gland Myoepithelial Cells from Human Skin. <i>Cell Structure and Function</i> , 2014, 39, 101-112.	0.5	21
70	Identification of an Upstream Enhancer in the Mouse Laminin $\alpha 1$ Gene Defining Its High Level of Expression in Parietal Endoderm Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 9332-9338.	1.6	20
71	Frem3, a member of the 12 CSPG repeats-containing extracellular matrix protein family, is a basement membrane protein with tissue distribution patterns distinct from those of Fras1, Frem2, and QBRICK/Frem1. <i>Matrix Biology</i> , 2007, 26, 456-462.	1.5	20
72	Ventricular-subventricular zone fractones are speckled basement membranes that function as a neural stem cell niche. <i>Molecular Biology of the Cell</i> , 2019, 30, 56-68.	0.9	20

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73	Identification and recombinant production of human laminin $\alpha 4$ subunit splice variants. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 498-504.	1.0	19
74	Laminin is the ECM niche for trophoblast stem cells. <i>Life Science Alliance</i> , 2020, 3, e201900515.	1.3	19
75	Adherence of synovial cells on EDA-containing fibronectin. <i>Arthritis and Rheumatism</i> , 1996, 39, 1685-1692.	6.7	18
76	Laminin $\alpha 2$, $\alpha 4$, and $\alpha 5$ Chains Positively Regulate Migration and Survival of Oligodendrocyte Precursor Cells. <i>Scientific Reports</i> , 2019, 9, 19882.	1.6	17
77	Decreased fibronectin expression in Met/HGF-mediated tumorigenesis. <i>Oncogene</i> , 1998, 17, 1179-1183.	2.6	16
78	Recombinant laminin fragments endowed with collagen-binding activity: A tool for conferring laminin-like cell-adhesive activity to collagen matrices. <i>Matrix Biology</i> , 2018, 65, 75-90.	1.5	15
79	Recombinant Expression and Characterization of a Novel Fibronectin Isoform Expressed in Cartilaginous Tissues. <i>Journal of Biological Chemistry</i> , 2003, 278, 50546-50553.	1.6	14
80	Disease-associated single amino acid mutation in the calf-1 domain of integrin $\alpha 3$ leads to defects in its processing and cell surface expression. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 988-993.	1.0	13
81	Substrate-attached materials are enriched with tetraspanins and are analogous to the structures associated with rear-end retraction in migrating cells. <i>Cell Adhesion and Migration</i> , 2013, 7, 304-314.	1.1	13
82	Cell-Type-Specific Adhesiveness and Proliferation Propensity on Laminin Isoforms Enable Purification of iPSC-Derived Corneal Epithelium. <i>Stem Cell Reports</i> , 2020, 14, 663-676.	2.3	12
83	Laminin-511 Supplementation Enhances Stem Cell Localization With Suppression in the Decline of Cardiac Function in Acute Infarct Rats. <i>Transplantation</i> , 2019, 103, e119-e127.	0.5	11
84	Identification and characterization of nCLP2, a novel C1q family protein expressed in the central nervous system. <i>Journal of Biochemistry</i> , 2010, 147, 565-579.	0.9	10
85	N-linked glycosylation on laminin $\alpha 1$ influences recognition of anti-laminin $\alpha 1$ pemphigoid autoantibodies. <i>Journal of Dermatological Science</i> , 2015, 77, 125-129.	1.0	10
86	Differential effects of laminin isoforms on axon and dendrite development in hippocampal neurons. <i>Neuroscience Research</i> , 2011, 71, 421-426.	1.0	9
87	Laminin $\alpha 21$ Enhances Therapeutic Effects of Human α -Induced Pluripotent Stem Cell α -Derived 3 α -Dimensional Engineered Cardiac Tissue Transplantation in a Rat Ischemic Cardiomyopathy Model. <i>Journal of the American Heart Association</i> , 2020, 9, e015841.	1.6	9
88	Laminin $\alpha 1$ C-terminal Glu to Gln mutation induces early postimplantation lethality. <i>Life Science Alliance</i> , 2018, 1, e201800064.	1.3	9
89	Molecular profiling of the basement membrane of pluripotent epiblast cells in post-implantation stage mouse embryos. <i>Regenerative Therapy</i> , 2019, 12, 55-65.	1.4	8
90	Clear Evidence of LAMA5 Gene Biallelic Truncating Variants Causing Infantile Nephrotic Syndrome. <i>Kidney360</i> , 2021, 2, 1968-1978.	0.9	8

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91	Establishment and characterization of a parietal endoderm-like cell line derived from Engelbreth-Holm Swarm tumor (EHSPEL), a possible resource for an engineered basement membrane matrix. <i>Matrix Biology</i> , 2004, 23, 47-62.	1.5	7
92	Probing the acidic residue within the integrin binding site of laminin-511 that interacts with the metal ion-dependent adhesion site of $\alpha 6 \beta 1$ integrin. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 525-531.	1.0	7
93	Extracellular laminin regulates hematopoietic potential of pluripotent stem cells through integrin $\beta 1$ -ILK- $\beta 2$ -catenin-JUN axis. <i>Stem Cell Research</i> , 2021, 53, 102287.	0.3	6
94	Fused pulmonary lobes is a rat model of human Fraser syndrome. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 440-444.	1.0	5
95	Pretreatment with Perlecan-Conjugated Laminin-E8 Fragment Enhances Maturation of Grafted Dopaminergic Progenitors in Parkinson's Disease Model. <i>Stem Cells Translational Medicine</i> , 2022, 11, 767-777.	1.6	5
96	Bipartite mechanism for laminin-integrin interactions: Identification of the integrin-binding site in LG domains of the laminin $\alpha 3$ chain. <i>Matrix Biology</i> , 2020, 87, 66-76.	1.5	4
97	Identification of genes expressed during hair follicle induction. <i>Journal of Dermatology</i> , 2011, 38, 674-679.	0.6	3
98	In Situ Detection of Integrin Ligands. <i>Current Protocols in Cell Biology</i> , 2014, 65, 9.7.1-17.	2.3	3
99	Human disease-associated extracellular matrix orthologs ECM3 and QBRICK regulate primary mesenchymal cell migration in sea urchin embryos. <i>Experimental Animals</i> , 2021, 70, 378-386.	0.7	3
100	In Situ Detection of Integrin Ligands. , 2014, 65, 10.19.1-10.19.17.		3
101	Combined administration of laminin-221 and prostacyclin agonist enhances endogenous cardiac repair in an acute infarct rat heart. <i>Scientific Reports</i> , 2021, 11, 22243.	1.6	3
102	A novel large-scale production system for modified basement membrane matrices using gene-swapped parietal endoderm cells. <i>Matrix Biology</i> , 2006, 25, 85-88.	1.5	2
103	Establishment and characterization of immortalized sweat gland myoepithelial cells. <i>Scientific Reports</i> , 2022, 12, 7.	1.6	2
104	Recombinant human laminin isoforms can support the undifferentiated growth of human embryonic stem cells. , 2008, 375, 27-27.		1
105	Mechanistic Basis for the Laminin Recognition by Integrin. <i>Seibutsu Butsuri</i> , 2019, 59, 091-093.	0.0	0