

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	Establishment and characterization of immortalized sweat gland myoepithelial cells. <i>Scientific Reports</i> , 2022, 12, 7.	1.6	2
2	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
3	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
4	Extracellular laminin regulates hematopoietic potential of pluripotent stem cells through integrin β 1-ILK- β 2-catenin-JUN axis. <i>Stem Cell Research</i> , 2021, 53, 102287.	0.3	6
5	Structural mechanism of laminin recognition by integrin. <i>Nature Communications</i> , 2021, 12, 4012.	5.8	41
6	Clear Evidence of LAMA5 Gene Biallelic Truncating Variants Causing Infantile Nephrotic Syndrome. <i>Kidney360</i> , 2021, 2, 1968-1978.	0.9	8
7	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
8	Bipartite mechanism for laminin-integrin interactions: Identification of the integrin-binding site in LG domains of the laminin β chain. <i>Matrix Biology</i> , 2020, 87, 66-76.	1.5	4
9	Laminin-221 Enhances Therapeutic Effects of Human-Induced Pluripotent Stem Cell-Derived 3-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
10	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
11	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
12	Laminin is the ECM niche for trophoblast stem cells. <i>Life Science Alliance</i> , 2020, 3, e201900515.	1.3	19
13	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
14	Laminin β 2, β 4, and β 5 Chains Positively Regulate Migration and Survival of Oligodendrocyte Precursor Cells. <i>Scientific Reports</i> , 2019, 9, 19882.	1.6	17
15	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
16	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
17	Mechanistic Basis for the Laminin Recognition by Integrin. <i>Seibutsu Butsuri</i> , 2019, 59, 091-093.	0.0	0
18	Enrichment of high-functioning human iPSC cell-derived hepatocyte-like cells for pharmaceutical research. <i>Biomaterials</i> , 2018, 161, 24-32.	5.7	47

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19	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
20	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
21	Laminin 511 is a target antigen in autoimmune pancreatitis. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	151
22	Laminin β 1 C-terminal Glu to Gln mutation induces early postimplantation lethality. <i>Life Science Alliance</i> , 2018, 1, e201800064.	1.3	9
23	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. <i>Circulation Research</i> , 2017, 120, 1263-1275.	2.0	59
24	Polydom Is an Extracellular Matrix Protein Involved in Lymphatic Vessel Remodeling. <i>Circulation Research</i> , 2017, 120, 1276-1288.	2.0	67
25	Probing the acidic residue within the integrin binding site of laminin-511 that interacts with the metal ion-dependent adhesion site of α 6 β 1 integrin. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 525-531.	1.0	7
26	Mechanistic basis for the recognition of laminin-511 by α 6 β 1 integrin. <i>Science Advances</i> , 2017, 3, e1701497.	4.7	38
27	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
28	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
29	Molecular Basis of the Ligand Binding Specificity of α 6 β 1 Integrin. <i>Journal of Biological Chemistry</i> , 2016, 291, 11551-11565.	1.6	36
30	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
31	Laminin-guided highly efficient endothelial commitment from human pluripotent stem cells. <i>Scientific Reports</i> , 2016, 6, 35680.	1.6	37
32	Co-ordinated ocular development from human iPS cells and recovery of corneal function. <i>Nature</i> , 2016, 531, 376-380.	13.7	191
33	Molecular Basis of Laminin-Integrin Interactions. <i>Current Topics in Membranes</i> , 2015, 76, 197-229.	0.5	108
34	N-linked glycosylation on laminin β 1 influences recognition of anti-laminin β 1 pemphigoid autoantibodies. <i>Journal of Dermatological Science</i> , 2015, 77, 125-129.	1.0	10
35	In Situ Detection of Integrin Ligands. <i>Current Protocols in Cell Biology</i> , 2014, 65, 9.7.1-17.	2.3	3
36	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

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37	Isolation and Characterization of Sweat Gland Myoepithelial Cells from Human Skin. <i>Cell Structure and Function</i> , 2014, 39, 101-112.	0.5	21
38	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
39	In Situ Detection of Integrin Ligands. , 2014, 65, 10.19.1-10.19.17.		3
40	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
41	Nephronectin binds to heparan sulfate proteoglycans via its MAM domain. <i>Matrix Biology</i> , 2013, 32, 188-195.	1.5	22
42	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
43	GPR56 Functions Together with $\alpha 3 \beta 1$ Integrin in Regulating Cerebral Cortical Development. <i>PLoS ONE</i> , 2013, 8, e68781.	1.1	70
44	Polydom/SVEP1 Is a Ligand for Integrin $\alpha 9 \beta 1$. <i>Journal of Biological Chemistry</i> , 2012, 287, 25615-25630.	1.6	67
45	Cross-talk between Integrin $\alpha 6 \beta 4$ and Insulin-like Growth Factor-1 Receptor (IGF1R) through Direct $\alpha 6 \beta 4$ Binding to IGF1 and Subsequent $\alpha 6 \beta 4$ -IGF1-IGF1R Ternary Complex Formation in Anchorage-independent Conditions. <i>Journal of Biological Chemistry</i> , 2012, 287, 12491-12500.	1.6	44
46	Basement membrane assembly of the integrin $\alpha 8 \beta 1$ ligand nephronectin requires Fraser syndrome-associated proteins. <i>Journal of Cell Biology</i> , 2012, 197, 677-689.	2.3	51
47	Schwann Cell Myelination Requires Integration of Laminin Activities. <i>Journal of Cell Science</i> , 2012, 125, 4609-19.	1.2	49
48	Laminin E8 fragments support efficient adhesion and expansion of dissociated human pluripotent stem cells. <i>Nature Communications</i> , 2012, 3, 1236.	5.8	303
49	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
50	The Basement Membrane of Hair Follicle Stem Cells Is a Muscle Cell Niche. <i>Cell</i> , 2011, 144, 577-589.	13.5	288
51	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
52	Differential effects of laminin isoforms on axon and dendrite development in hippocampal neurons. <i>Neuroscience Research</i> , 2011, 71, 421-426.	1.0	9
53	Identification of genes expressed during hair follicle induction. <i>Journal of Dermatology</i> , 2011, 38, 674-679.	0.6	3
54	Self-organizing optic-cup morphogenesis in three-dimensional culture. <i>Nature</i> , 2011, 472, 51-56.	13.7	1,771

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55	Direct Binding of the EGF-like Domain of Neuregulin-1 to Integrins ($\alpha 3$ and $\alpha 6$) Is Involved in Neuregulin-1/ErbB Signaling. <i>Journal of Biological Chemistry</i> , 2010, 285, 31388-31398.	1.6	71
56	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
57	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
58	Genetic Analysis of Fin Development in Zebrafish Identifies Furin and Hemicentin1 as Potential Novel Fraser Syndrome Disease Genes. <i>PLoS Genetics</i> , 2010, 6, e1000907.	1.5	103
59	The C-terminal Region of Laminin $\alpha 2$ Chains Modulates the Integrin Binding Affinities of Laminins. <i>Journal of Biological Chemistry</i> , 2009, 284, 7820-7831.	1.6	72
60	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
61	Molecular Basis of the Recognition of Nephronectin by Integrin $\alpha 8 \beta 1$. <i>Journal of Biological Chemistry</i> , 2009, 284, 14524-14536.	1.6	65
62	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
63	The tetraspanin CD151 regulates cell morphology and intracellular signaling on laminin-511. <i>FEBS Journal</i> , 2008, 275, 3335-3351.	2.2	43
64	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
65	Laminin-511 is an epithelial message promoting dermal papilla development and function during early hair morphogenesis. <i>Genes and Development</i> , 2008, 22, 2111-2124.	2.7	105
66	Transcriptome-based systematic identification of extracellular matrix proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12849-12854.	3.3	127
67	Laminin Isoforms Containing the $\alpha 3$ Chain Are Unable to Bind to Integrins due to the Absence of the Glutamic Acid Residue Conserved in the C-terminal Regions of the $\alpha 1$ and $\alpha 2$ Chains. <i>Journal of Biological Chemistry</i> , 2008, 283, 28149-28157.	1.6	51
68	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
69	Recombinant human laminin isoforms can support the undifferentiated growth of human embryonic stem cells. , 2008, 375, 27-27.		1
70	The Requirement of the Glutamic Acid Residue at the Third Position from the Carboxyl Termini of the Laminin $\alpha 3$ Chains in Integrin Binding by Laminins. <i>Journal of Biological Chemistry</i> , 2007, 282, 11144-11154.	1.6	87
71	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
72	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

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73	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
74	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
75	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 $\alpha 6 \beta 2$ integrins. <i>Matrix Biology</i> , 2006, 25, 189-197.	1.5	355
76	Breakdown of the reciprocal stabilization of QBRICK/Frem1, Fras1, and Frem2 at the basement membrane provokes Fraser syndrome-like defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11981-11986.	3.3	103
77	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
78	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
79	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
80	Expression of MAEC, a novel basement membrane protein, in mouse hair follicle morphogenesis. <i>Experimental Cell Research</i> , 2005, 303, 148-159.	1.2	39
81	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
82	A simplified laminin nomenclature. <i>Matrix Biology</i> , 2005, 24, 326-332.	1.5	760
83	Molecular Dissection of the α -Dystroglycan- and Integrin-binding Sites within the Globular Domain of Human Laminin-10. <i>Journal of Biological Chemistry</i> , 2004, 279, 10946-10954.	1.6	104
84	Rac regulates integrin-mediated endothelial cell adhesion and migration on laminin-8. <i>Experimental Cell Research</i> , 2004, 292, 67-77.	1.2	69
85	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
86	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
87	Molecular Basis of Constitutive Production of Basement Membrane Components. <i>Journal of Biological Chemistry</i> , 2003, 278, 50691-50701.	1.6	47
88	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
89	Characterization of the Ligand-Binding Specificities of Integrin $\alpha 3 \beta 1$ and $\alpha 6 \beta 1$ Using a Panel of Purified Laminin Isoforms Containing Distinct α Chains. <i>Journal of Biochemistry</i> , 2003, 134, 497-504.	0.9	75
90	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

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91	Laminin-10/11 and Fibronectin Differentially Prevent Apoptosis Induced by Serum Removal via Phosphatidylinositol 3-Kinase/Akt- and MEK1/ERK-dependent Pathways. <i>Journal of Biological Chemistry</i> , 2002, 277, 19922-19928.	1.6	106
92	Localization of Laminin $\alpha 4$ -Chain in Developing and Adult Human Tissues. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 1113-1130.	1.3	89
93	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
94	Purification and Characterization of Human Laminin-8. <i>Journal of Biological Chemistry</i> , 2001, 276, 17550-17558.	1.6	155
95	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
96	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
97	Decreased fibronectin expression in Met/HGF-mediated tumorigenesis. <i>Oncogene</i> , 1998, 17, 1179-1183.	2.6	16
98	Integrin $\alpha 3 \beta 1$ -mediated interaction with laminin-5 stimulates adhesion, migration and invasion of malignant glioma cells. , 1998, 76, 63-72.		154
99	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
100	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
101	Paxillin association in vitro with integrin cytoplasmic domain peptides. <i>FEBS Letters</i> , 1996, 399, 53-58.	1.3	34
102	Abrogation of lung metastasis of human fibrosarcoma cells by ribozyme-mediated suppression of integrin $\alpha 6$ subunit expression. , 1996, 65, 519-524.		34
103	Adherence of synovial cells on EDA-containing fibronectin. <i>Arthritis and Rheumatism</i> , 1996, 39, 1685-1692.	6.7	18
104	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
105	Novel Peptide Ligands for Integrin $\alpha 6 \beta 1$ Selected from a Phage Display Library. <i>Journal of Biochemistry</i> , 1996, 120, 445-451.	0.9	38