

# Kentaro Hozumi

## List of Publications by Year in descending order

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68  
papers

1,425  
citations

331259

21  
h-index

360668

35  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1816  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibulin-7 C-terminal fragment and its active synthetic peptide suppress choroidal and retinal neovascularization. <i>Microvascular Research</i> , 2020, 129, 103986.	1.1	3
2	Characterization of dystroglycan binding in adhesion of human induced pluripotent stem cells to laminin-511 E8 fragment. <i>Scientific Reports</i> , 2019, 9, 13037.	1.6	9
3	Identification of active sequences in human laminin $\beta$ 5 G domain. <i>Journal of Peptide Science</i> , 2019, 25, e3218.	0.8	2
4	Identification of specific integrin cross-talk for dermal fibroblast cell adhesion using a mixed peptide-chitosan matrix. <i>Journal of Biomaterials Applications</i> , 2019, 33, 893-902.	1.2	4
5	Synthesis of a Chloroalkene Dipeptide Isostere-Containing Peptidomimetic and Its Biological Application. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 6-10.	1.3	10
6	Internalization of CD239 highly expressed in breast cancer cells: a potential antigen for antibody-drug conjugates. <i>Scientific Reports</i> , 2018, 8, 6612.	1.6	10
7	Mixed Peptide-Conjugated Chitosan Matrices as Multi-Receptor Targeted Cell-Adhesive Scaffolds. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2713.	1.8	15
8	Cell Adhesion Activity of Peptides Conjugated to Polysaccharides. <i>Current Protocols in Cell Biology</i> , 2018, 80, e53.	2.3	8
9	Identification of laminin $\alpha$ 5 short arm peptides active for endothelial cell attachment and tube formation. <i>Journal of Peptide Science</i> , 2017, 23, 666-673.	0.8	7
10	Biological activity of peptide-conjugated polyion complex matrices consisting of alginate and chitosan. <i>Biopolymers</i> , 2017, 108, e22983.	1.2	4
11	An Anti-Human Lutheran Glycoprotein Phage Antibody Inhibits Cell Migration on Laminin-511: Epitope Mapping of the Antibody. <i>PLoS ONE</i> , 2017, 12, e0167860.	1.1	5
12	Structural Study of Cell Attachment Peptide Derived from Laminin by Molecular Dynamics Simulation. <i>PLoS ONE</i> , 2016, 11, e0149474.	1.1	5
13	Identification of peptides derived from the C-terminal domain of fibulin-7 active for endothelial cell adhesion and tube formation disruption. <i>Biopolymers</i> , 2016, 106, 184-195.	1.2	15
14	Mixed Fibronectin-Derived Peptides Conjugated to a Chitosan Matrix Effectively Promotes Biological Activities through Integrins, $\beta$ 1, $\beta$ 2, and Syndecan. <i>BioResearch Open Access</i> , 2016, 5, 356-366.	2.6	9
15	Down-regulation of cell adhesion via rho-associated protein kinase (ROCK) pathway promotes tumor cell migration on laminin-511. <i>Experimental Cell Research</i> , 2016, 344, 76-85.	1.2	5
16	Effect of spacer length and type on the biological activity of peptide-polysaccharide matrices. <i>Biopolymers</i> , 2016, 106, 512-520.	1.2	9
17	Active Peptide-Conjugated Chitosan Matrices as an Artificial Basement Membrane. <i>Polymers</i> , 2015, 7, 281-297.	2.0	6
18	Suppression of cell adhesion through specific integrin crosstalk on mixed peptide-polysaccharide matrices. <i>Biomaterials</i> , 2015, 37, 73-81.	5.7	9

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19	Structural Requirement of Fibrogenic Peptide AG97 (SAKVDAIGLEIV) and B160 (VILQQAADIAR) for Amyloid-Like Fibril Formation and Cellular Activity. , 2015, , .		0
20	Double-stranded DNA stereoselectively promotes aggregation of amyloid-like fibrils and generates peptide-DNA matrices. Biopolymers, 2014, 102, 465-472.	1.2	4
21	Biological Activities of the Homologous Loop Regions in the Laminin $\alpha$ 2 Chain LG Modules. Biochemistry, 2014, 53, 3699-3708.	1.2	8
22	Soluble Lutheran/basal cell adhesion molecule is detectable in plasma of hepatocellular carcinoma patients and modulates cellular interaction with laminin-511 in vitro. Experimental Cell Research, 2014, 328, 197-206.	1.2	4
23	Screening of integrin-binding peptides in a laminin peptide library derived from the mouse laminin $\alpha$ 2 chain short arm regions. Archives of Biochemistry and Biophysics, 2014, 550-551, 33-41.	1.4	4
24	Laminin-111-derived peptides and cancer. Cell Adhesion and Migration, 2013, 7, 150-159.	1.1	87
25	Laminin-111-derived peptide-hyaluronate hydrogels as a synthetic basement membrane. Biomaterials, 2013, 34, 6539-6547.	5.7	24
26	The Lutheran/Basal Cell Adhesion Molecule Promotes Tumor Cell Migration by Modulating Integrin-mediated Cell Attachment to Laminin-511 Protein. Journal of Biological Chemistry, 2013, 288, 30990-31001.	1.6	36
27	Cell attachment and spreading activity of mixed laminin peptide-chitosan membranes. Biopolymers, 2013, 100, 751-759.	1.2	9
28	3P017 Identification of structure determinant amino acid residues in the A2G80 peptide derived from laminin $\alpha$ 2 by molecular dynamics simulation(O1A. Protein: Structure,Poster). Seibutsu Butsuri, 2013, 53, S214.	0.0	0
29	Identification of Cell Adhesive Sequences in the N-terminal Region of the Laminin $\alpha$ 2 Chain. Journal of Biological Chemistry, 2012, 287, 25111-25122.	1.6	16
30	Structural Requirement of Fibrogenic Laminin-Derived Peptide A119 (LSNIDYILIKAS) for Amyloid-like Fibril Formation and Cellular Activity. Biochemistry, 2012, 51, 8218-8225.	1.2	0
31	Identification of Active Sequences in the L4a Domain of Laminin $\alpha$ 5 Promoting Neurite Elongation. Biochemistry, 2012, 51, 4950-4958.	1.2	2
32	Screening of integrin-binding peptides from the laminin $\alpha$ 4 and $\alpha$ 5 chain G domain peptide library. Archives of Biochemistry and Biophysics, 2012, 521, 32-42.	1.4	23
33	Perlecan modulates VEGF signaling and is essential for vascularization in endochondral bone formation. Matrix Biology, 2012, 31, 234-245.	1.5	72
34	Laminin active peptide/agarose matrices as multifunctional biomaterials for tissue engineering. Biomaterials, 2012, 33, 4118-4125.	5.7	51
35	Reconstitution of laminin-111 biological activity using multiple peptide coupled to chitosan scaffolds. Biomaterials, 2012, 33, 4241-4250.	5.7	21
36	Design and synthesis of amidine-type peptide bond isosteres: application of nitrile oxide derivatives as active ester equivalents in peptide and peptidomimetics synthesis. Organic and Biomolecular Chemistry, 2011, 9, 3421.	1.5	18

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37	Maintenance of hepatic differentiation by hepatocyte attachment peptides derived from laminin chains. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 203-210.	2.1	10
38	Construction and Activity of a Synthetic Basement Membrane with Active Laminin Peptides and Polysaccharides. <i>Chemistry - A European Journal</i> , 2011, 17, 10500-10508.	1.7	35
39	Cell behavior on protein matrices containing laminin $\alpha$ 1 peptide AG73. <i>Biomaterials</i> , 2011, 32, 4327-4335.	5.7	10
40	The Influence of Tribenoside on Expression and Deposition of Epidermal Laminins in HaCaT Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2010, 33, 307-310.	0.6	8
41	Syndecan and integrin binding peptides synergistically accelerate cell adhesion. <i>FEBS Letters</i> , 2010, 584, 3381-3385.	1.3	25
42	Biological activity of laminin peptide-conjugated alginate and chitosan matrices. <i>Biopolymers</i> , 2010, 94, 711-720.	1.2	35
43	Cell surface receptor-specific scaffold requirements for adhesion to laminin-derived peptide-chitosan membranes. <i>Biomaterials</i> , 2010, 31, 3237-3243.	5.7	37
44	A collagen-mimetic triple helical supramolecule that evokes integrin-dependent cell responses. <i>Biomaterials</i> , 2010, 31, 1925-1934.	5.7	57
45	Dermatopontin Promotes Epidermal Keratinocyte Adhesion via $\alpha$ 3 $\beta$ 1 Integrin and a Proteoglycan Receptor. <i>Biochemistry</i> , 2010, 49, 147-155.	1.2	32
46	Amino Acid Sequence Requirements of Laminin $\alpha$ 1 Chain Peptide B133 (DISTKYFQMSLE) for Amyloid-like Fibril Formation, Syndecan Binding, and Neurite Outgrowth Promotion. <i>Biochemistry</i> , 2010, 49, 5909-5918.	1.2	4
47	Identification of $\alpha$ -dystroglycan binding sequences in the laminin $\alpha$ 2 chain LG4 <sup>5</sup> module. <i>Matrix Biology</i> , 2010, 29, 143-151.	1.5	20
48	Identification of biologically active sequences in the laminin $\alpha$ 2 chain G domain. <i>Archives of Biochemistry and Biophysics</i> , 2010, 497, 43-54.	1.4	21
49	B133 (DSITKYFQMSLE), a laminin $\alpha$ 1-derived peptide, contains distinct core sequences for both integrin $\alpha$ 2 $\beta$ 1-mediated cell adhesion and amyloid-like fibril formation. <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 189-195.	1.4	2
50	Cell adhesive peptide screening of the mouse laminin $\alpha$ 1 chain G domain. <i>Archives of Biochemistry and Biophysics</i> , 2010, 503, 213-222.	1.4	29
51	Upregulation of ZO-1 in Cultured Human Corneal Epithelial Cells by a Peptide (PHSRN) Corresponding to the Second Cell-Binding Site of Fibronectin. , 2009, 50, 2757.		20
52	Clustering of Syndecan-4 and Integrin $\alpha$ 1 by Laminin $\alpha$ 3 Chain-derived Peptide Promotes Keratinocyte Migration. <i>Molecular Biology of the Cell</i> , 2009, 20, 3012-3024.	0.9	39
53	Binding of laminin-1 to monosialoganglioside GM1 in lipid rafts is crucial for neurite outgrowth. <i>Journal of Cell Science</i> , 2009, 122, 289-299.	1.2	109
54	A novel cell-adhesive scaffold material for delivering keratinocytes reduces granulation tissue in dermal wounds. <i>Wound Repair and Regeneration</i> , 2009, 17, 127-135.	1.5	22

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55	Design and activity of multifunctional fibrils using receptor-specific small peptides. <i>Biomaterials</i> , 2009, 30, 6731-6738.	5.7	15
56	Mixed peptide-chitosan membranes to mimic the biological activities of a multifunctional laminin $\alpha$ 1 chain LG4 module. <i>Biomaterials</i> , 2009, 30, 1596-1603.	5.7	32
57	Biologically Active Sequences in the Mouse Laminin $\alpha$ 3 Chain C Domain. <i>Biochemistry</i> , 2009, 48, 10522-10532.	1.2	16
58	Chain-Specific Heparin-Binding Sequences in the Laminin $\alpha$ Chain LG45 Modules. <i>Biochemistry</i> , 2009, 48, 5375-5381.	1.2	20
59	Sequence specificity of the PHSRN peptide from fibronectin on corneal epithelial migration. <i>Biochemical and Biophysical Research Communications</i> , 2009, 379, 346-350.	1.0	15
60	TM14 Is a New Member of the Fibulin Family (Fibulin-7) That Interacts with Extracellular Matrix Molecules and Is Active for Cell Binding. <i>Journal of Biological Chemistry</i> , 2007, 282, 30878-30888.	1.6	86
61	Angiogenic activity of syndecan-binding laminin peptide AG73 (RKRLQVQLSIRT). <i>Archives of Biochemistry and Biophysics</i> , 2007, 459, 249-255.	1.4	49
62	Identification of Multiple Amyloidogenic Sequences in Laminin-1. <i>Biochemistry</i> , 2007, 46, 3966-3974.	1.2	30
63	Integrin-dependent cell behavior on ECM peptide-conjugated chitosan membranes. <i>Biopolymers</i> , 2007, 88, 122-130.	1.2	39
64	Laminin $\alpha$ 1 Chain LG4 Module Promotes Cell Attachment through Syndecans and Cell Spreading through Integrin $\alpha$ 2 $\beta$ 1. <i>Journal of Biological Chemistry</i> , 2006, 281, 32929-32940.	1.6	73
65	Active sites of the laminin $\alpha$ 1 chain LG4 module for syndecan binding and cell adhesion and spreading. <i>FASEB Journal</i> , 2006, 20, A1097.	0.2	0
66	Effect of Nucleoplasmin on a Nucleosome Structure. <i>Polymer Journal</i> , 2002, 34, 184-193.	1.3	2
67	Mechanism of salmon sperm decondensation by nucleoplasmin. <i>International Journal of Biological Macromolecules</i> , 1999, 26, 95-101.	3.6	7
68	Conformation of nucleoplasmin and its interaction with DNA-protamine complex as a simple model of fish sperm nuclei. <i>International Journal of Biological Macromolecules</i> , 1997, 20, 171-178.	3.6	12