Kentaro Hozumi

List of Publications by Year
in descending order

68	1,425	331259	360668
papers	citations	21 h-index	35 g-index

69	69	69	1816
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Binding of laminin-1 to monosialoganglioside GM1 in lipid rafts is crucial for neurite outgrowth. Journal of Cell Science, 2009, 122, 289-299.	1.2	109
2	Laminin-111-derived peptides and cancer. Cell Adhesion and Migration, 2013, 7, 150-159.	1.1	87
3	TM14 Is a New Member of the Fibulin Family (Fibulin-7) That Interacts with Extracellular Matrix Molecules and Is Active for Cell Binding. Journal of Biological Chemistry, 2007, 282, 30878-30888.	1.6	86
4	Laminin Î±1 Chain LG4 Module Promotes Cell Attachment through Syndecans and Cell Spreading through Integrin Î±2Î²1. Journal of Biological Chemistry, 2006, 281, 32929-32940.	1.6	73
5	Perlecan modulates VEGF signaling and is essential for vascularization in endochondral bone formation. Matrix Biology, 2012, 31, 234-245.	1.5	72
6	A collagen-mimetic triple helical supramolecule that evokes integrin-dependent cell responses. Biomaterials, 2010, 31, 1925-1934.	5.7	57
7	Laminin active peptide/agarose matrices as multifunctional biomaterials for tissue engineering. Biomaterials, 2012, 33, 4118-4125.	5.7	51
8	Angiogenic activitiy of syndecan-binding laminin peptide AG73 (RKRLQVQLSIRT). Archives of Biochemistry and Biophysics, 2007, 459, 249-255.	1.4	49
9	Integrin-dependent cell behavior on ECM peptide-conjugated chitosan membranes. Biopolymers, 2007, 88, 122-130.	1.2	39
10	Clustering of Syndecan-4 and Integrin Î²1 by Laminin Î±3 Chainâ€“derived Peptide Promotes Keratinocyte Migration. Molecular Biology of the Cell, 2009, 20, 3012-3024.	0.9	39
11	Cell surface receptor-specific scaffold requirements for adhesion to laminin-derived peptideâ€“chitosan membranes. Biomaterials, 2010, 31, 3237-3243.	5.7	37
12	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
13	Biological activity of laminin peptideâ€conjugated alginate and chitosan matrices. Biopolymers, 2010, 94, 711-720.	1.2	35
14	Construction and Activity of a Synthetic Basement Membrane with Active Laminin Peptides and Polysaccharides. Chemistry - A European Journal, 2011, 17, 10500-10508.	1.7	35
15	Mixed peptideâ€“chitosan membranes to mimic the biological activities of a multifunctional laminin Î±1 chain LG4 module. Biomaterials, 2009, 30, 1596-1603.	5.7	32
16	Dermatopontin Promotes Epidermal Keratinocyte Adhesion via Î±3Î²1 Integrin and a Proteoglycan Receptor. Biochemistry, 2010, 49, 147-155.	1.2	32
17	Identification of Multiple Amyloidogenic Sequences in Laminin-1. Biochemistry, 2007, 46, 3966-3974.	1.2	30
18	Cell adhesive peptide screening of the mouse laminin Î±1 chain G domain. Archives of Biochemistry and Biophysics, 2010, 503, 213-222.	1.4	29

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19	Syndecanâ€•and integrinâ€‘binding peptides synergistically accelerate cell adhesion. FEBS Letters, 2010, 584, 3381-3385.	1.3	25
20	Laminin-111-derived peptide-hyaluronate hydrogels as a synthetic basement membrane. Biomaterials, 2013, 34, 6539-6547.	5.7	24
21	Screening of integrin-binding peptides from the laminin Î±4 and Î±5 chain G domain peptide library. Archives of Biochemistry and Biophysics, 2012, 521, 32-42.	1.4	23
22	A novel cellâ€‘adhesive scaffold material for delivering keratinocytes reduces granulation tissue in dermal wounds. Wound Repair and Regeneration, 2009, 17, 127-135.	1.5	22
23	Identification of biologically active sequences in the laminin Î±2 chain G domain. Archives of Biochemistry and Biophysics, 2010, 497, 43-54.	1.4	21
24	Reconstitution of laminin-111 biological activity using multiple peptide coupled to chitosan scaffolds. Biomaterials, 2012, 33, 4241-4250.	5.7	21
25	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
26	Chain-Specific Heparin-Binding Sequences in the Laminin Î± Chain LG45 Modules. Biochemistry, 2009, 48, 5375-5381.	1.2	20
27	Identification of Î±-dystroglycan binding sequences in the laminin Î±2 chain LG4â€“5 module. Matrix Biology, 2010, 29, 143-151.	1.5	20
28	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
29	Biologically Active Sequences in the Mouse Laminin Î±3 Chain G Domain. Biochemistry, 2009, 48, 10522-10532.	1.2	16
30	Identification of Cell Adhesive Sequences in the N-terminal Region of the Laminin Î±2 Chain. Journal of Biological Chemistry, 2012, 287, 25111-25122.	1.6	16
31	Design and activity of multifunctional fibrils using receptor-specific small peptides. Biomaterials, 2009, 30, 6731-6738.	5.7	15
32	Sequence specificity of the PHSRN peptide from fibronectin on corneal epithelial migration. Biochemical and Biophysical Research Communications, 2009, 379, 346-350.	1.0	15
33	Identification of peptides derived from the Câ€‘terminal domain of fibulinâ€‘7 active for endothelial cell adhesion and tube formation disruption. Biopolymers, 2016, 106, 184-195.	1.2	15
34	Mixed Peptide-Conjugated Chitosan Matrices as Multi-Receptor Targeted Cell-Adhesive Scaffolds. International Journal of Molecular Sciences, 2018, 19, 2713.	1.8	15
35	Conformation of nucleoplasmin and its interaction with DNA-protamine complex as a simple model of fish sperm nuclei. International Journal of Biological Macromolecules, 1997, 20, 171-178.	3.6	12
36	Maintenance of hepatic differentiation by hepatocyte attachment peptides derived from laminin chains. Journal of Biomedical Materials Research - Part A, 2011, 99A, 203-210.	2.1	10

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37	Cell behavior on protein matrices containing laminin Î±1 peptide AG73. Biomaterials, 2011, 32, 4327-4335.	5.7	10
38	Synthesis of a Chloroalkene Dipeptide Isostere-Containing Peptidomimetic and Its Biological Application. ACS Medicinal Chemistry Letters, 2018, 9, 6-10.	1.3	10
39	Internalization of CD239 highly expressed in breast cancer cells: a potential antigen for antibody-drug conjugates. Scientific Reports, 2018, 8, 6612.	1.6	10
40	Cell attachment and spreading activity of mixed laminin peptideâ€“chitosan membranes. Biopolymers, 2013, 100, 751-759.	1.2	9
41	Suppression of cell adhesion through specific integrin crosstalk on mixed peptide-polysaccharide matrices. Biomaterials, 2015, 37, 73-81.	5.7	9
42	Mixed Fibronectin-Derived Peptides Conjugated to a Chitosan Matrix Effectively Promotes Biological Activities through Integrins, Î±4Î²1, Î±5Î²1, Î±vÎ²3, and Syndecan. BioResearch Open Access, 2016, 5, 356-366.	2.6	9
43	Effect of spacer length and type on the biological activity of peptideâ€“polysaccharide matrices. Biopolymers, 2016, 106, 512-520.	1.2	9
44	Characterization of dystroglycan binding in adhesion of human induced pluripotent stem cells to laminin-511 E8 fragment. Scientific Reports, 2019, 9, 13037.	1.6	9
45	The Influence of Tribenoside on Expression and Deposition of Epidermal Laminins in HaCaT Cells. Biological and Pharmaceutical Bulletin, 2010, 33, 307-310.	0.6	8
46	Biological Activities of the Homologous Loop Regions in the Laminin Î± Chain LG Modules. Biochemistry, 2014, 53, 3699-3708.	1.2	8
47	Cell Adhesion Activity of Peptides Conjugated to Polysaccharides. Current Protocols in Cell Biology, 2018, 80, e53.	2.3	8
48	Mechanism of salmon sperm decondensation by nucleoplasmin. International Journal of Biological Macromolecules, 1999, 26, 95-101.	3.6	7
49	Identification of laminin Î±5 short arm peptides active for endothelial cell attachment and tube formation. Journal of Peptide Science, 2017, 23, 666-673.	0.8	7
50	Active Peptide-Conjugated Chitosan Matrices as an Artificial Basement Membrane. Polymers, 2015, 7, 281-297.	2.0	6
51	Structural Study of Cell Attachment Peptide Derived from Laminin by Molecular Dynamics Simulation. PLoS ONE, 2016, 11, e0149474.	1.1	5
52	Down-regulation of cell adhesion via rho-associated protein kinase (ROCK) pathway promotes tumor cell migration on laminin-511. Experimental Cell Research, 2016, 344, 76-85.	1.2	5
53	An Anti-Human Lutheran Glycoprotein Phage Antibody Inhibits Cell Migration on Laminin-511: Epitope Mapping of the Antibody. PLoS ONE, 2017, 12, e0167860.	1.1	5
54	Amino Acid Sequence Requirements of Laminin Î²1 Chain Peptide B133 (DISTKYFQMSLE) for Amyloid-like Fibril Formation, Syndecan Binding, and Neurite Outgrowth Promotion. Biochemistry, 2010, 49, 5909-5918.	1.2	4

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55	Doubleâ€stranded <scp>DNA</scp> stereoselectively promotes aggregation of amyloidâ€like fibrils and generates peptide/<scp>DNA</scp> matrices. Biopolymers, 2014, 102, 465-472.	1.2	4
56	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
57	Screening of integrin-binding peptides in a laminin peptide library derived from the mouse laminin Î² chain short arm regions. Archives of Biochemistry and Biophysics, 2014, 550-551, 33-41.	1.4	4
58	Biological activity of peptideâ€conjugated polyion complex matrices consisting of alginate and chitosan. Biopolymers, 2017, 108, e22983.	1.2	4
59	Identification of specific integrin cross-talk for dermal fibroblast cell adhesion using a mixed peptide-chitosan matrix. Journal of Biomaterials Applications, 2019, 33, 893-902.	1.2	4
60	Fibulin-7 C-terminal fragment and its active synthetic peptide suppress choroidal and retinal neovascularization. Microvascular Research, 2020, 129, 103986.	1.1	3
61	Effect of Nucleoplasmin on a Nucleosome Structure. Polymer Journal, 2002, 34, 184-193.	1.3	2
62	B133 (DSITKYFQMSLE), a laminin Î²1-derived peptide, contains distinct core sequences for both integrin Î±2Î²1-mediated cell adhesion and amyloid-like fibril formation. Archives of Biochemistry and Biophysics, 2010, 500, 189-195.	1.4	2
63	Identification of Active Sequences in the L4a Domain of Laminin Î±5 Promoting Neurite Elongation. Biochemistry, 2012, 51, 4950-4958.	1.2	2
64	Identification of active sequences in human laminin Î±5 G domain. Journal of Peptide Science, 2019, 25, e3218.	0.8	2
65	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
66	3P017 Identification of structure determinant amino acid residues in the A2G80 peptide derived from laminin Î±2 by molecular dynamics simulation(01A. Protein: Structure,Poster). Seibutsu Butsuri, 2013, 53, S214.	0.0	0
67	Active sites of the laminin alpha1 chain LG4 module for syndecan binding and cell adhesion and spreading. FASEB Journal, 2006, 20, A1097.	0.2	0
68	Structural Requirement of Fibrogenic Peptide AG97 (SAKVDAIGLEIV) and B160 (VILQQSAADIAR) for Amyloid-Like Fibril Formation and Cellular Activity. , 2015, , .		0