

Yamato Kikkawa

List of Publications by Year in descending order

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76
papers

3,153
citations

218381

26
h-index

155451

55
g-index

77
all docs

77
docs citations

77
times ranked

3538
citing authors

#	ARTICLE	IF	CITATIONS
1	Glomerular-specific alterations of VEGF-A expression lead to distinct congenital and acquired renal diseases. <i>Journal of Clinical Investigation</i> , 2003, 111, 707-716.	3.9	1,100
2	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
3	Purification and Characterization of Human Laminin-8. <i>Journal of Biological Chemistry</i> , 2001, 276, 17550-17558.	1.6	155
4	Mesangial cells organize the glomerular capillaries by adhering to the G domain of laminin $\alpha 5$ in the glomerular basement membrane. <i>Journal of Cell Biology</i> , 2003, 161, 187-196.	2.3	113
5	Marked Stimulation of Cell Adhesion and Motility by Ladsin, a Laminin-Like Scatter Factor 1. <i>Journal of Biochemistry</i> , 1994, 116, 862-869.	0.9	111
6	Laminin-111-derived peptides and cancer. <i>Cell Adhesion and Migration</i> , 2013, 7, 150-159.	1.1	87
7	Identification of the Binding Site for the Lutheran Blood Group Glycoprotein on Laminin $\alpha 5$ through Expression of Chimeric Laminin Chains in Vivo. <i>Journal of Biological Chemistry</i> , 2002, 277, 44864-44869.	1.6	81
8	Laminin $\alpha 2$ Gene Missense Mutation Produces Endoplasmic Reticulum Stress in Podocytes. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 1223-1233.	3.0	77
9	Expression of CD44 in rat hepatic progenitor cells. <i>Journal of Hepatology</i> , 2006, 45, 90-98.	1.8	65
10	The LG1-3 Tandem of Laminin $\alpha 5$ Harbors the Binding Sites of Lutheran/Basal Cell Adhesion Molecule and $\alpha 3 \beta 1 / \alpha 6 \beta 1$ Integrins*. <i>Journal of Biological Chemistry</i> , 2007, 282, 14853-14860.	1.6	59
11	$\alpha 1$ - and $\alpha 5$ -containing Laminins Regulate the Development of Bile Ducts via $\alpha 2 \beta 1$ Integrin Signals. <i>Journal of Biological Chemistry</i> , 2012, 287, 28586-28597.	1.6	59
12	Laminin active peptide/agarose matrices as multifunctional biomaterials for tissue engineering. <i>Biomaterials</i> , 2012, 33, 4118-4125.	5.7	51
13	Review: Lutheran/B-CAM: A Laminin Receptor on Red Blood Cells and in Various Tissues. <i>Connective Tissue Research</i> , 2005, 46, 193-199.	1.1	50
14	A Missense LAMB2 Mutation Causes Congenital Nephrotic Syndrome by Impairing Laminin Secretion. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 849-858.	3.0	50
15	Laminin $\alpha 5$ mediates ectopic adhesion of hepatocellular carcinoma through integrins and/or Lutheran/basal cell adhesion molecule. <i>Experimental Cell Research</i> , 2008, 314, 2579-2590.	1.2	45
16	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
17	Molecular dissection of laminin $\alpha 5$ in vivo reveals separable domain-specific roles in embryonic development and kidney function. <i>Developmental Biology</i> , 2006, 296, 265-277.	0.9	40
18	Laminin isoforms differentially regulate adhesion, spreading, proliferation, and ERK activation of $\alpha 2 \beta 1$ integrin-null cells. <i>Experimental Cell Research</i> , 2004, 300, 94-108.	1.2	39

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19	Cell surface receptor-specific scaffold requirements for adhesion to laminin-derived peptide- α -chitosan membranes. <i>Biomaterials</i> , 2010, 31, 3237-3243.	5.7	37
20	The Lutheran/Basal Cell Adhesion Molecule Promotes Tumor Cell Migration by Modulating Integrin-mediated Cell Attachment to Laminin-511 Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 30990-31001.	1.6	36
21	Transient expression of laminin γ 1 chain in regenerating murine liver: Restricted localization of laminin chains and nidogen-1. <i>Experimental Cell Research</i> , 2005, 305, 99-109.	1.2	33
22	A three-dimensional microfluidic tumor cell migration assay to screen the effect of anti-migratory drugs and interstitial flow. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 969-981.	1.0	33
23	Mixed peptide- α -chitosan membranes to mimic the biological activities of a multifunctional laminin β 1 chain LG4 module. <i>Biomaterials</i> , 2009, 30, 1596-1603.	5.7	32
24	Laminin-521 Protein Therapy for Glomerular Basement Membrane and Podocyte Abnormalities in a Model of Pierson Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1426-1436.	3.0	30
25	Cell adhesive peptide screening of the mouse laminin β 1 chain G domain. <i>Archives of Biochemistry and Biophysics</i> , 2010, 503, 213-222.	1.4	29
26	Absence of Post-phosphoryl Modification in Dystroglycanopathy Mouse Models and Wild-type Tissues Expressing Non-laminin Binding Form of α -Dystroglycan. <i>Journal of Biological Chemistry</i> , 2012, 287, 9560-9567.	1.6	28
27	Syndecan- α and integrin- α binding peptides synergistically accelerate cell adhesion. <i>FEBS Letters</i> , 2010, 584, 3381-3385.	1.3	25
28	Development of Three-Dimensional Cell Culture Scaffolds Using Laminin Peptide-Conjugated Agarose Microgels. <i>Biomacromolecules</i> , 2020, 21, 3765-3771.	2.6	25
29	Laminin-111-derived peptide-hyaluronate hydrogels as a synthetic basement membrane. <i>Biomaterials</i> , 2013, 34, 6539-6547.	5.7	24
30	Screening of integrin-binding peptides from the laminin β 4 and β 5 chain G domain peptide library. <i>Archives of Biochemistry and Biophysics</i> , 2012, 521, 32-42.	1.4	23
31	Novel Hybrid Compound of a Plinabulin Prodrug with an IgG Binding Peptide for Generating a Tumor Selective Noncovalent-Type Antibody- α -Drug Conjugate. <i>Bioconjugate Chemistry</i> , 2016, 27, 1606-1613.	1.8	22
32	The influence of synthetic peptides derived from the laminin β 1 chain on hepatocyte adhesion and gene expression. <i>Biomaterials</i> , 2009, 30, 6888-6895.	5.7	21
33	Identification of biologically active sequences in the laminin β 2 chain G domain. <i>Archives of Biochemistry and Biophysics</i> , 2010, 497, 43-54.	1.4	21
34	Reconstitution of laminin-111 biological activity using multiple peptide coupled to chitosan scaffolds. <i>Biomaterials</i> , 2012, 33, 4241-4250.	5.7	21
35	Development of Antibody-Modified Nanobubbles Using Fc-Region-Binding Polypeptides for Ultrasound Imaging. <i>Pharmaceutics</i> , 2019, 11, 283.	2.0	21
36	Identification and Characterization of Lutheran Blood Group Glycoprotein as a New Substrate of Membrane-type 1 Matrix Metalloproteinase 1 (MT1-MMP). <i>Journal of Biological Chemistry</i> , 2009, 284, 27360-27369.	1.6	18

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37	Identification of Cell Adhesive Sequences in the N-terminal Region of the Laminin α 2 Chain. <i>Journal of Biological Chemistry</i> , 2012, 287, 25111-25122.	1.6	16
38	Design and activity of multifunctional fibrils using receptor-specific small peptides. <i>Biomaterials</i> , 2009, 30, 6731-6738.	5.7	15
39	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
40	An Efficacy of Intensive Vitamin D Delivery to Neointimal Hyperplasia in Recurrent Vascular Access Stenosis. <i>Journal of Vascular Access</i> , 2016, 17, 72-77.	0.5	13
41	Hyperbaric oxygen stimulates cell proliferation and normalizes multidrug resistance protein-2 protein localization in primary rat hepatocytes. <i>Wound Repair and Regeneration</i> , 2005, 13, 551-557.	1.5	12
42	Differential expression of Lutheran/BCAM regulates biliary tissue remodeling in ductular reaction during liver regeneration. <i>ELife</i> , 2018, 7, .	2.8	12
43	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
44	Cell behavior on protein matrices containing laminin α 1 peptide AG73. <i>Biomaterials</i> , 2011, 32, 4327-4335.	5.7	10
45	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
46	Suppression of cell adhesion through specific integrin crosstalk on mixed peptide-polysaccharide matrices. <i>Biomaterials</i> , 2015, 37, 73-81.	5.7	9
47	Mixed Fibronectin-Derived Peptides Conjugated to a Chitosan Matrix Effectively Promotes Biological Activities through Integrins, α 4 β 1, α 5 β 1, α v β 3, and Syndecan. <i>BioResearch Open Access</i> , 2016, 5, 356-366.	2.6	9
48	Effect of spacer length and type on the biological activity of peptide-polysaccharide matrices. <i>Biopolymers</i> , 2016, 106, 512-520.	1.2	9
49	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
50	In vitro transformation of adult rat hepatic progenitor cells into pancreatic endocrine hormone-producing cells. <i>Journal of Hepato-Biliary-Pancreatic Surgery</i> , 2008, 15, 310-317.	2.0	8
51	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
52	Alpha-dystroglycan binding peptide A2G80-modified stealth liposomes as a muscle-targeting carrier for Duchenne muscular dystrophy. <i>Journal of Controlled Release</i> , 2021, 329, 1037-1045.	4.8	8
53	The immortalized human corneal epithelial cells adhere to laminin-10 by using Lutheran glycoproteins and integrin α 3 β 1. <i>Experimental Eye Research</i> , 2005, 81, 415-421.	1.2	7
54	An Antibody to the Lutheran Glycoprotein (Lu) Recognizing the LU4 Blood Type Variant Inhibits Cell Adhesion to Laminin α 5. <i>PLoS ONE</i> , 2011, 6, e23329.	1.1	7

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55	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
56	Structural Study of Cell Attachment Peptide Derived from Laminin by Molecular Dynamics Simulation. <i>PLoS ONE</i> , 2016, 11, e0149474.	1.1	5
57	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
58	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
59	Evaluation of extracellular matrix mimetic laminin bioactive peptide and elastin-like polypeptide. <i>FASEB Journal</i> , 2020, 34, 6729-6740.	0.2	5
60	Octa-arginine and Octa-lysine Promote Cell Adhesion through Heparan Sulfate Proteoglycans and Integrins. <i>Biological and Pharmaceutical Bulletin</i> , 2022, 45, 207-212.	0.6	5
61	Soluble Lutheran/basal cell adhesion molecule is detectable in plasma of hepatocellular carcinoma patients and modulates cellular interaction with laminin-511 in vitro. <i>Experimental Cell Research</i> , 2014, 328, 197-206.	1.2	4
62	Screening of integrin-binding peptides in a laminin peptide library derived from the mouse laminin $\beta 2$ chain short arm regions. <i>Archives of Biochemistry and Biophysics</i> , 2014, 550-551, 33-41.	1.4	4
63	Biological activity of peptide-conjugated polyion complex matrices consisting of alginate and chitosan. <i>Biopolymers</i> , 2017, 108, e22983.	1.2	4
64	Development of a Screening System for Targeting Carriers Using Peptide-Modified Liposomes and Tissue Sections. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1107-1111.	0.6	4
65	Disrupted tubular parathyroid hormone/parathyroid hormone receptor signaling and damaged tubular cell viability possibly trigger postsurgical kidney injury in patients with advanced hyperparathyroidism. <i>CKJ: Clinical Kidney Journal</i> , 2019, 12, 686-692.	1.4	4
66	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
67	Tissue substructure-specific deposition of the $\beta 3$ -containing laminin-332 in the biliary epithelium of human and mouse livers. <i>Biochemical and Biophysical Research Communications</i> , 2020, 524, 465-471.	1.0	4
68	Development of A2G80 peptide-gene complex for targeted delivery to muscle cells. <i>Journal of Controlled Release</i> , 2021, 329, 988-996.	4.8	4
69	Lutheran Blood Group Antigen as a Receptor for $\alpha 5$ Laminins in Gingival Epithelia. <i>Journal of Periodontology</i> , 2007, 78, 1810-1818.	1.7	3
70	B133 (DSITKYFQMSLE), a laminin $\beta 1$ -derived peptide, contains distinct core sequences for both integrin $\beta 2$ -mediated cell adhesion and amyloid-like fibril formation. <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 189-195.	1.4	2
71	Identification of active sequences in human laminin $\alpha 5$ G domain. <i>Journal of Peptide Science</i> , 2019, 25, e3218.	0.8	2
72	Laminin $\beta 2$ variants associated with isolated nephropathy that impact matrix regulation. <i>JCI Insight</i> , 2021, 6, .	2.3	2

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73	Semiquantitative analysis of virtual histology derived from intravascular ultrasound images at vascular access stenosis. <i>Journal of Vascular Access</i> , 2019, 20, 55-59.	0.5	1
74	Conformational dependence of integrin-binding peptides derived from homologous loop regions in the laminin α chains. <i>Journal of Peptide Science</i> , 2020, 26, e3284.	0.8	1
75	Erratum to "Transient expression of laminin α 1 chain in regenerating murine liver: Restricted localization of laminin chains and nidogen-1" [<i>Exp. Cell Res.</i> 305 (2005) 99-109]. <i>Experimental Cell Research</i> , 2005, 308, 491-492.	1.2	0
76	3P017 Identification of structure determinant amino acid residues in the A2G80 peptide derived from laminin α 2 by molecular dynamics simulation (O1A. Protein: Structure, Poster). <i>Seibutsu Butsuri</i> , 2013, 53, S214.	0.0	0