

Hannu Koistinen

List of Publications by Year in descending order

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108
papers

3,398
citations

109321

35
h-index

161849

54
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109
all docs

109
docs citations

109
times ranked

2748
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Analysis of the Oligosaccharides Derived from Glycodelin, a Human Glycoprotein with Potent Immunosuppressive and Contraceptive Activities. <i>Journal of Biological Chemistry</i> , 1995, 270, 24116-24126.	3.4	225
2	Glycodelin: A Major Lipocalin Protein of the Reproductive Axis with Diverse Actions in Cell Recognition and Differentiation. <i>Endocrine Reviews</i> , 2002, 23, 401-430.	20.1	223
3	Gender-specific Glycosylation of Human Glycodelin Affects Its Contraceptive Activity. <i>Journal of Biological Chemistry</i> , 1996, 271, 32159-32167.	3.4	138
4	Insulin Reduction with Metformin Increases Luteal Phase Serum Glycodelin and Insulin-Like Growth Factor-Binding Protein 1 Concentrations and Enhances Uterine Vascularity and Blood Flow in the Polycystic Ovary Syndrome1. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 1126-1133.	3.6	135
5	A role for glycoconjugates in human development: the human feto-embryonic defence system hypothesis. <i>Human Reproduction</i> , 1996, 11, 467-473.	0.9	114
6	Effect of marathon run on serum IGF-I and IGF-binding protein 1 and 3 levels. <i>Journal of Applied Physiology</i> , 1996, 80, 760-764.	2.5	88
7	Glycodelin from seminal plasma is a differentially glycosylated form of contraceptive glycodelin-A. <i>Molecular Human Reproduction</i> , 1996, 2, 759-765.	2.8	88
8	Glycosylation related actions of glycodelin: gamete, cumulus cell, immune cell and clinical associations. <i>Human Reproduction Update</i> , 2007, 13, 275-287.	10.8	83
9	Glycodelin-S in Human Seminal Plasma Reduces Cholesterol Efflux and Inhibits Capacitation of Spermatozoa. <i>Journal of Biological Chemistry</i> , 2005, 280, 25580-25589.	3.4	76
10	Glycodelin-A interacts with fucosyltransferase on human sperm plasma membrane to inhibit spermatozoa-zona pellucida binding. <i>Journal of Cell Science</i> , 2007, 120, 33-44.	2.0	67
11	Glycodelin-A as a paracrine regulator in early pregnancy. <i>Journal of Reproductive Immunology</i> , 2011, 90, 29-34.	1.9	60
12	Emerging Roles of SPINK1 in Cancer. <i>Clinical Chemistry</i> , 2016, 62, 449-457.	3.2	59
13	Hemoglobin level is linked to growth hormone-dependent proteins in short children. <i>Blood</i> , 1996, 87, 2075-2081.	1.4	58
14	DNA Damage Recognition via Activated ATM and p53 Pathway in Nonproliferating Human Prostate Tissue. <i>Cancer Research</i> , 2010, 70, 8630-8641.	0.9	57
15	Glycodelin-A Protein Interacts with Siglec-6 Protein to Suppress Trophoblast Invasiveness by Down-regulating Extracellular Signal-regulated Kinase (ERK)/c-Jun Signaling Pathway. <i>Journal of Biological Chemistry</i> , 2011, 286, 37118-37127.	3.4	57
16	Roles of glycodelin in modulating sperm function. <i>Molecular and Cellular Endocrinology</i> , 2006, 250, 149-156.	3.2	54
17	Effects of Differential Glycosylation of Glycodelins on Lymphocyte Survival. <i>Journal of Biological Chemistry</i> , 2009, 284, 15084-15096.	3.4	54
18	Recombinant glycodelin carrying the same type of glycan structures as contraceptive glycodelin-A can be produced in human kidney 293 cells but not in Chinese hamster ovary cells. <i>FEBS Journal</i> , 2000, 267, 4753-4762.	0.2	53

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19	Effects of glycodeilins on functional competence of spermatozoa. <i>Journal of Reproductive Immunology</i> , 2009, 83, 26-30.	1.9	53
20	Glycosylation Failure Extends to Glycoproteins in Gestational Diabetes Mellitus. <i>Diabetes</i> , 2011, 60, 909-917.	0.6	53
21	Glycodeilin in reproductive endocrinology and hormone-related cancer. <i>European Journal of Endocrinology</i> , 2009, 160, 121-133.	3.7	52
22	Cumulus Oophorus-associated Glycodeilin-C Displaces Sperm-bound Glycodeilin-A and -F and Stimulates Spermatozoa-Zona Pellucida Binding. <i>Journal of Biological Chemistry</i> , 2007, 282, 5378-5388.	3.4	50
23	Relaxin stimulates glycodeilin mRNA and protein concentrations in human endometrial glandular epithelial cells. <i>Molecular Human Reproduction</i> , 1999, 5, 372-375.	2.8	46
24	Structural characterization and anti-angiogenic properties of prostate-specific antigen isoforms in seminal fluid. <i>Prostate</i> , 2008, 68, 945-954.	2.3	46
25	The Pleiotropic Effect of Glycodeilin-A in Early Pregnancy. <i>American Journal of Reproductive Immunology</i> , 2016, 75, 290-297.	1.2	46
26	Zona-Binding Inhibitory Factor-1 from Human Follicular Fluid Is an Isoform of Glycodeilin1. <i>Biology of Reproduction</i> , 2003, 69, 365-372.	2.7	45
27	Human chorionic gonadotropin and its free β -subunit stimulate trophoblast invasion independent of LH/hCG receptor. <i>Molecular and Cellular Endocrinology</i> , 2013, 375, 43-52.	3.2	45
28	Prostate-specific antigen and other prostate-derived proteases cleave IGFBP-3, but prostate cancer is not associated with proteolytically cleaved circulating IGFBP-3. <i>Prostate</i> , 2002, 50, 112-118.	2.3	44
29	Novel small molecule inhibitors for prostate-specific antigen. <i>Prostate</i> , 2008, 68, 1143-1151.	2.3	43
30	Activity and stability of human kallikrein-2-specific linear and cyclic peptide inhibitors. <i>Journal of Peptide Science</i> , 2007, 13, 348-353.	1.4	40
31	Glycodeilin and β -lactoglobulin, lipocalins with a high structural similarity, differ in ligand binding properties. <i>FEBS Letters</i> , 1999, 450, 158-162.	2.8	39
32	Novel Peptide Inhibitors of Human Kallikrein 2. <i>Journal of Biological Chemistry</i> , 2006, 281, 12555-12560.	3.4	39
33	Glycodeilin-A as a modulator of trophoblast invasion. <i>Human Reproduction</i> , 2009, 24, 2093-2103.	0.9	37
34	Differential actions of glycodeilin-A on Th-1 and Th-2 cells: a paracrine mechanism that could produce the Th-2 dominant environment during pregnancy. <i>Human Reproduction</i> , 2011, 26, 517-526.	0.9	37
35	Glycodeilin-A stimulates the conversion of human peripheral blood CD16 ⁺ CD56 ^{bright} NK cell to a decidual NK cell-like phenotype. <i>Human Reproduction</i> , 2019, 34, 689-701.	0.9	37
36	Different forms of insulin-like growth factor-binding protein-3 detected in serum and seminal plasma by immunofluorometric assay with monoclonal antibodies. <i>Clinical Chemistry</i> , 1994, 40, 531-536.	3.2	36

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37	Glycodelin-A Stimulates Interleukin-6 Secretion by Human Monocytes and Macrophages through L-selectin and the Extracellular Signal-regulated Kinase Pathway. <i>Journal of Biological Chemistry</i> , 2012, 287, 36999-37009.	3.4	36
38	The synthesis and fate of glycodelin in human ovary during folliculogenesis. <i>Molecular Human Reproduction</i> , 2002, 8, 142-148.	2.8	35
39	Binding of Zona Binding Inhibitory Factor-1 (ZIF-1) from Human Follicular Fluid on Spermatozoa. <i>Journal of Biological Chemistry</i> , 2003, 278, 13570-13577.	3.4	32
40	Differences in Glycosylation and Sperm-Egg Binding Inhibition of Pregnancy-Related Glycodelin1. <i>Biology of Reproduction</i> , 2003, 69, 1545-1551.	2.7	32
41	An Investigation of the Single and Combined Phthalate Metabolite Effects on Human Chorionic Gonadotropin Expression in Placental Cells. <i>Environmental Health Perspectives</i> , 2017, 125, 107010.	6.0	31
42	KLK3/PSA and cathepsin D activate VEGF-C and VEGF-D. <i>ELife</i> , 2019, 8, .	6.0	31
43	Glycodelins as regulators of early events of reproduction. <i>Clinical Endocrinology</i> , 1997, 46, 381-386.	2.4	28
44	The Contribution of d-Mannose, l-Fucose, N-Acetylglucosamine, and Selectin Residues on the Binding of Glycodelin Isoforms to Human Spermatozoa1. <i>Biology of Reproduction</i> , 2004, 70, 1710-1719.	2.7	28
45	Proteolytic Activity of Prostate-Specific Antigen (PSA) towards Protein Substrates and Effect of Peptides Stimulating PSA Activity. <i>PLoS ONE</i> , 2014, 9, e107819.	2.5	28
46	A sensitive proximity ligation assay for active PSA. <i>Biological Chemistry</i> , 2006, 387, 769-72.	2.5	26
47	Zona pellucida-induced acrosome reaction in human spermatozoa is potentiated by glycodelin-A via down-regulation of extracellular signal-regulated kinases and up-regulation of zona pellucida-induced calcium influx. <i>Human Reproduction</i> , 2010, 25, 2721-2733.	0.9	26
48	Development of peptides specifically modulating the activity of KLK2 and KLK3. <i>Biological Chemistry</i> , 2008, 389, 633-642.	2.5	23
49	Glycodelin-A modulates cytokine production of peripheral blood natural killer cells. <i>Fertility and Sterility</i> , 2010, 94, 769-771.	1.0	23
50	Antiangiogenic properties of prostate-specific antigen (PSA). <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2009, 69, 447-451.	1.2	21
51	Growth hormone induced increase in serum IGFBP-3 level is reversed by anabolic steroids in substance abusing power athletes. <i>Clinical Endocrinology</i> , 1998, 49, 459-463.	2.4	20
52	Proximity Ligation Measurement of the Complex between Prostate Specific Antigen and Î±1-Protease Inhibitor. <i>Clinical Chemistry</i> , 2009, 55, 1665-1671.	3.2	20
53	PSA forms complexes with Î±1-antichymotrypsin in prostate. <i>Prostate</i> , 2013, 73, 219-226.	2.3	20
54	Glycodelin reduces carcinoma-associated gene expression in endometrial adenocarcinoma cells. <i>American Journal of Obstetrics and Gynecology</i> , 2005, 193, 1955-1960.	1.3	19

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55	Nexin-1 inhibits the activity of human brain trypsin. <i>Neuroscience</i> , 2009, 160, 97-102.	2.3	19
56	Glycodelin reduces breast cancer xenograft growth <i>in vivo</i> . <i>International Journal of Cancer</i> , 2008, 123, 2279-2284.	5.1	18
57	Identification of novel peptide inhibitors for human trypsins. <i>Biological Chemistry</i> , 2010, 391, 283-293.	2.5	18
58	Specific Immunoassay Reveals Increased Serum Trypsinogen 3 in Acute Pancreatitis. <i>Clinical Chemistry</i> , 2011, 57, 1506-1513.	3.2	18
59	Trypsin-2 Enhances Carcinoma Invasion by Processing Tight Junctions and Activating ProMT1-MMP. <i>Cancer Investigation</i> , 2012, 30, 583-592.	1.3	18
60	Glycodelin expression associates with differential tumour phenotype and outcome in sporadic and familial non-BRCA1/2 breast cancer patients. <i>Breast Cancer Research and Treatment</i> , 2011, 128, 85-95.	2.5	17
61	Prostate Cancer Risk-Associated Single-Nucleotide Polymorphism Affects Prostate-Specific Antigen Glycosylation and Its Function. <i>Clinical Chemistry</i> , 2019, 65, e1-e9.	3.2	17
62	Substrate-biased activity-based probes identify proteases that cleave receptor CDCP1. <i>Nature Chemical Biology</i> , 2021, 17, 776-783.	8.0	17
63	Monoclonal Antibodies, Immunofluorometric Assay, and Detection of Human Semenogelin in Male Reproductive Tract: No Association with In Vitro Fertilizing Capacity of Sperm1. <i>Biology of Reproduction</i> , 2002, 66, 624-628.	2.7	16
64	Altered glycosylation of glycodelin in endometrial carcinoma. <i>Laboratory Investigation</i> , 2020, 100, 1014-1025.	3.7	16
65	Peptides binding to prostate-specific antigen enhance its antiangiogenic activity. <i>Prostate</i> , 2012, 72, 1588-1594.	2.3	15
66	The role of glycodelin in cell differentiation and tumor growth. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2009, 69, 452-459.	1.2	14
67	Mimetics of the disulfide bridge between the N- and C-terminal cysteines of the KLK3-stimulating peptide B-2. <i>Amino Acids</i> , 2010, 39, 233-242.	2.7	14
68	Specificity profiling of human trypsin-isoenzymes. <i>Biological Chemistry</i> , 2018, 399, 997-1007.	2.5	14
69	Hyperglycosylated hCG activates LH/hCG-receptor with lower activity than hCG. <i>Molecular and Cellular Endocrinology</i> , 2019, 479, 103-109.	3.2	13
70	Absence of TGF- β 2 Receptor Activation by Highly Purified hCG Preparations. <i>Molecular Endocrinology</i> , 2015, 29, 1787-1791.	3.7	12
71	Decidual glycodelin-A polarizes human monocytes towards a decidual macrophage-like phenotype via siglec-7. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	12
72	Collagen degradation by tumor-associated trypsins. <i>Archives of Biochemistry and Biophysics</i> , 2013, 535, 111-114.	3.0	11

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73	Interleukin-6 increases expression of serine protease inhibitor Kazal type 1 through STAT3 in colorectal adenocarcinoma. <i>Molecular Carcinogenesis</i> , 2016, 55, 2010-2023.	2.7	11
74	Potent Inhibitor of Human Trypsins from the Aeruginosin Family of Natural Products. <i>ACS Chemical Biology</i> , 2021, 16, 2537-2546.	3.4	11
75	Extracellular matrix-induced changes in expression of cell cycle-related proteins and proteasome components in endometrial adenocarcinoma cells. <i>Gynecologic Oncology</i> , 2006, 102, 546-551.	1.4	10
76	Anticancer activity of the protein kinase C modulator HMI-1a3 in 2D and 3D cell culture models of androgen-responsive and androgen-unresponsive prostate cancer. <i>FEBS Open Bio</i> , 2018, 8, 817-828.	2.3	9
77	The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase-3 (KLK3). <i>ChemMedChem</i> , 2011, 6, 2170-2178.	3.2	8
78	Replacement of the Disulfide Bridge in a KLK3-Stimulating Peptide Using Orthogonally Protected Building Blocks. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 162-165.	2.8	8
79	4 PSA (Prostate-Specific Antigen) and other Kallikrein-related Peptidases in Prostate Cancer. , 2012, , 61-82.		8
80	Seminal plasma glycodelin and fertilization in vitro. <i>Journal of Andrology</i> , 2000, 21, 636-40.	2.0	8
81	Discovery of varlaxins, new aeruginosin-type inhibitors of human trypsin. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2681-2692.	2.8	8
82	Different forms of insulin-like growth factor-binding protein-3 detected in serum and seminal plasma by immunofluorometric assay with monoclonal antibodies. <i>Clinical Chemistry</i> , 1994, 40, 531-6.	3.2	7
83	Glycodelin: a molecule with multi-functions on spermatozoa. <i>Society of Reproduction and Fertility Supplement</i> , 2007, 63, 143-51.	0.2	7
84	KLK3 in the Regulation of Angiogenesis—Tumorigenic or Not?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13545.	4.1	7
85	Pseudopeptides with a centrally positioned alkene-based disulphide bridge mimetic stimulate kallikrein-related peptidase 3 activity. <i>MedChemComm</i> , 2013, 4, 549-553.	3.4	6
86	Transcript analysis of commercial prostate cancer risk stratification panels in hard-to-predict grade group 2-4 prostate cancers. <i>Prostate</i> , 2021, 81, 368-376.	2.3	6
87	Proteolytic Cleavage of Bioactive Peptides and Protease-Activated Receptors in Acute and Post-Colitis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10711.	4.1	6
88	Glycodelin-A modulates syncytialization of human BeWo choriocarcinoma cell line. <i>Placenta</i> , 2012, 33, 750-752.	1.5	5
89	Gene expression changes associated with the anti-angiogenic activity of kallikrein-related peptidase 3 (KLK3) on human umbilical vein endothelial cells. <i>Biological Chemistry</i> , 2008, 389, 765-771.	2.5	4
90	Complex formation between human prostate-specific antigen and protease inhibitors in mouse plasma. <i>Prostate</i> , 2010, 70, 482-490.	2.3	4

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91	An immunocapture-LC-MS-based assay for serum SPINK1 allows simultaneous quantification and detection of SPINK1 variants. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1679-1688.	3.7	4
92	Second-Trimester Placental and Thyroid Hormones Are Associated With Cognitive Development From Ages 1 to 3 Years. <i>Journal of the Endocrine Society</i> , 2021, 5, bvab027.	0.2	4
93	Multiple forms of messenger ribonucleic acid encoding glycodelin in male genital tract. <i>Laboratory Investigation</i> , 1997, 76, 683-90.	3.7	4
94	Evaluation of Peptides as Protease Inhibitors and Stimulators. <i>Methods in Molecular Biology</i> , 2014, 1088, 147-158.	0.9	3
95	The role of glycodealins in regulation of fertilization and implantation: The fertilization window. <i>Gynecological Endocrinology</i> , 1996, 10, 129-131.	1.7	2
96	Advances in Prostate-specific Antigen Testing. <i>Advances in Clinical Chemistry</i> , 2006, 41, 231-261.	3.7	2
97	Glycodelin treatment reduces the adverse effect of macrophage coculture on human sperm motility. <i>Molecular Reproduction and Development</i> , 2014, 81, 482-483.	2.0	2
98	Virtual Screening of Small Drug-Like Compounds Stimulating the Enzymatic Activity of Kallikrein-Related Peptidase-3 (KLK3). <i>ChemMedChem</i> , 2016, 11, 2043-2049.	3.2	2
99	Development of molecules stimulating the activity of KLK3 – an update. <i>Biological Chemistry</i> , 2016, 397, 1229-1235.	2.5	2
100	MAPK inhibitors induce serine peptidase inhibitor Kazal type 1 (SPINK1) secretion in BRAF V600E mutant colorectal adenocarcinoma. <i>Molecular Oncology</i> , 2018, 12, 224-238.	4.6	2
101	Repressed PKC δ activation in glycodelin-expressing cells mediates resistance to phorbol ester and TGF β ² . <i>Cellular Signalling</i> , 2016, 28, 1463-1469.	3.6	1
102	Dramatic increase in serum trypsinogens, SPINK1 and hCG β in aortic surgery patients after hypothermic circulatory arrest. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2020, 80, 640-643.	1.2	1
103	Biliary hCG β Is a Potential Novel Marker for Prediction of Biliary Neoplasia in Primary Sclerosing Cholangitis Patients. <i>Livers</i> , 2021, 1, 322-329.	1.9	1
104	PAEP (progestagen-associated endometrial protein). <i>Atlas of Genetics and Cytogenetics in Oncology and Haematology</i> , 2012, , .	0.1	0
105	Abstract 1961: PKC δ mediates glycodelin-induced differentiation of breast cancer cells. , 2011, , .		0
106	Abstract 2679: Cyanobacterial trypsin-3 inhibitor inhibits prostate cancer cell invasion. , 2018, , .		0
107	SAT-229 HCG Alpha Might Supplant TSH during the Fetal Period to Promote Brain Development. <i>Journal of the Endocrine Society</i> , 2019, 3, .	0.2	0
108	Immunoassay for trypsinogen-4. <i>Analytical Biochemistry</i> , 2022, , 114681.	2.4	0