

# Aki Manninen

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,593  
citations

186265

28  
h-index

189892

50  
g-index

60  
all docs

60  
docs citations

60  
times ranked

4144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered glycosylation of several metastasis-associated glycoproteins with terminal GalNAc defines the highly invasive cancer cell phenotype. <i>Oncotarget</i> , 2022, 13, 73-89.	1.8	8
2	Disassembly of $\beta$ 4-mediated hemidesmosomal adhesions promotes tumorigenesis in PTEN-negative prostate cancer by targeting plectin to focal adhesions. <i>Oncogene</i> , 2022, 41, 3804-3820.	5.9	9
3	Proximity-Dependent Biotinylation (BioID) of Integrin Interaction Partners. <i>Methods in Molecular Biology</i> , 2021, 2217, 57-69.	0.9	2
4	Self-assembled nanofibrils from RGD-functionalized cellulose nanocrystals to improve the performance of PEI/DNA polyplexes. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 71-82.	9.4	14
5	The Pro-Oncogenic Adaptor CIN85 Acts as an Inhibitory Binding Partner of Hypoxia-Inducible Factor Prolyl Hydroxylase 2. <i>Cancer Research</i> , 2019, 79, 4042-4056.	0.9	8
6	3D Cell Culture Models of Epithelial Tissues. <i>Methods in Molecular Biology</i> , 2019, 1926, 77-84.	0.9	9
7	Assembly of the $\beta$ 4-Integrin Interactome Based on Proximal Biotinylation in the Presence and Absence of Heterodimerization*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 277-293.	3.8	19
8	Focus prediction in digital holographic microscopy using deep convolutional neural networks. <i>Applied Optics</i> , 2019, 58, A202.	1.8	73
9	BAMBI is a novel HIF1-dependent modulator of TGF $\beta$ 2-mediated disruption of cell polarity in hypoxia. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	13
10	NHLRC2 variants identified in patients with fibrosis, neurodegeneration, and cerebral angiomas (FINCA): characterisation of a novel cerebropulmonary disease. <i>Acta Neuropathologica</i> , 2018, 135, 727-742.	7.7	21
11	Impaired Mitochondrial Fatty Acid Synthesis Leads to Neurodegeneration in Mice. <i>Journal of Neuroscience</i> , 2018, 38, 9781-9800.	3.6	28
12	Biallelic mutations in human NHLRC2 enhance myofibroblast differentiation in FINCA disease. <i>Human Molecular Genetics</i> , 2018, 27, 4288-4302.	2.9	13
13	Biology and Clinical Implications of the 19q13 Aggressive Prostate Cancer Susceptibility Locus. <i>Cell</i> , 2018, 174, 576-589.e18.	28.9	116
14	Principal component analysis on time-lapse captured digital holograms of cell clusters. , 2018, , .		0
15	Classification of Digital Holograms with Deep Learning and Hand-Crafted Features. , 2018, , .		2
16	Temporal Deep Learning Classification of Digital Hologram Reconstructions of Multicellular Samples. , 2018, , .		1
17	Detecting the Presence of a Transparent Object in Off-Axis Digital Holograms. , 2018, , .		0
18	Laminins in Epithelial Cell Polarization: Old Questions in Search of New Answers. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a027920.	5.5	17

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19	Oncogenic K-Ras upregulates ITGA6 expression via FOSL1 to induce anoikis resistance and synergizes with $\beta$ 1- $\beta$ 4-Integrins to promote EMT. <i>Oncogene</i> , 2017, 36, 5681-5694.	5.9	52
20	Significant Role of Collagen XVII And Integrin $\beta$ 4 in Migration and Invasion of The Less Aggressive Squamous Cell Carcinoma Cells. <i>Scientific Reports</i> , 2017, 7, 45057.	3.3	32
21	Focus classification in digital holographic microscopy using deep convolutional neural networks. <i>Proceedings of SPIE</i> , 2017, , .	0.8	5
22	A proteomics view on integrin-mediated adhesions. <i>Proteomics</i> , 2017, 17, 1600022.	2.2	57
23	Meta-analysis of gene expression and integrin-associated signaling pathways in papillary renal cell carcinoma subtypes. <i>Oncotarget</i> , 2016, 7, 84178-84189.	1.8	4
24	Performance of Autofocus Capability of Deep Convolutional Neural Networks in Digital Holographic Microscopy. , 2016, , .		10
25	Functional Genetic Targeting of Embryonic Kidney Progenitor Cells Ex Vivo. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1126-1137.	6.1	39
26	Epithelial polarity – Generating and integrating signals from the ECM with integrins. <i>Experimental Cell Research</i> , 2015, 334, 337-349.	2.6	84
27	$\beta$ 1- and $\beta$ 4-integrins are required for long-term self-renewal of murine embryonic stem cells in the absence of LIF. <i>BMC Cell Biology</i> , 2015, 16, 3.	3.0	22
28	HOXA10 controls proliferation, migration and invasion in oral squamous cell carcinoma. <i>International Journal of Clinical and Experimental Pathology</i> , 2015, 8, 3613-23.	0.5	26
29	A prostate cancer susceptibility allele at 6q22 increases RFX6 expression by modulating HOXB13 chromatin binding. <i>Nature Genetics</i> , 2014, 46, 126-135.	21.4	182
30	$\beta$ 1-Integrins Are Required for Mechanotransduction in MDCK Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e71485.	2.5	22
31	Laminin 511 partners with laminin 332 to mediate directional migration of Madin-Darby canine kidney epithelial cells. <i>Molecular Biology of the Cell</i> , 2012, 23, 121-136.	2.1	15
32	ErbB4 Modulates Tubular Cell Polarity and Lumen Diameter during Kidney Development. <i>Journal of the American Society of Nephrology: JASN</i> , 2012, 23, 112-122.	6.1	54
33	Real-Time Three-Dimensional Visualization of Escherichia Coli using Digital Holographic Microscope. , 2012, , .		0
34	HAS3-induced accumulation of hyaluronan in 3D MDCK cultures results in mitotic spindle misorientation and disturbed organization of epithelium. <i>Histochemistry and Cell Biology</i> , 2012, 137, 153-164.	1.7	26
35	Two Distinct Integrin-Mediated Mechanisms Contribute to Apical Lumen Formation in Epithelial Cells. <i>PLoS ONE</i> , 2011, 6, e19453.	2.5	50
36	Intramyocardial BNP Gene Delivery Improves Cardiac Function Through Distinct Context-Dependent Mechanisms. <i>Circulation: Heart Failure</i> , 2011, 4, 483-495.	3.9	42

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37	Sialylation regulates galectin-3/ligand interplay during mammary tumour progression - a case of targeted uncloaking. <i>International Journal of Developmental Biology</i> , 2011, 55, 823-834.	0.6	24
38	Coordinated expression of galectin-3 and galectin-3-binding sites in malignant mammary tumors: implications for tumor metastasis. <i>Glycobiology</i> , 2010, 20, 1341-1352.	2.5	30
39	Coactivator PGC-1 $\beta$ regulates the fasting inducible xenobiotic-metabolizing enzyme CYP2A5 in mouse primary hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2008, 232, 135-141.	2.8	35
40	Galectin-3 Regulates Integrin $\alpha_2\beta_1$ -mediated Adhesion to Collagen-I and -IV. <i>Journal of Biological Chemistry</i> , 2008, 283, 32264-32272.	3.4	86
41	Depletion of apical transport proteins perturbs epithelial cyst formation and ciliogenesis. <i>Journal of Cell Science</i> , 2008, 121, 1193-1203.	2.0	68
42	Contributions of Galectin-3 and -9 to Epithelial Cell Adhesion Analyzed by Single Cell Force Spectroscopy. <i>Journal of Biological Chemistry</i> , 2007, 282, 29375-29383.	3.4	76
43	Rab10 is Involved in Basolateral Transport in Polarized Madin-Darby Canine Kidney Cells. <i>Traffic</i> , 2007, 8, 47-60.	2.7	116
44	Galectin-4 and sulfatides in apical membrane trafficking in enterocyte-like cells. <i>Journal of Cell Biology</i> , 2005, 169, 491-501.	5.2	227
45	FAPP2 is involved in the transport of apical cargo in polarized MDCK cells. <i>Journal of Cell Biology</i> , 2005, 170, 521-526.	5.2	95
46	Caveolin-1 Is Not Essential for Biosynthetic Apical Membrane Transport. <i>Molecular and Cellular Biology</i> , 2005, 25, 10087-10096.	2.3	43
47	Generation of single and double knockdowns in polarized epithelial cells by retrovirus-mediated RNA interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4912-4917.	7.1	91
48	Autoimmune regulator induced changes in the gene expression profile of human monocyte-dendritic cell-lineage. <i>Molecular Immunology</i> , 2004, 41, 1185-1198.	2.2	54
49	Regulation of T cell activation by HIV-1 accessory proteins: Vpr acts via distinct mechanisms to cooperate with Nef in NFAT-directed gene expression and to promote transactivation by CREB. <i>Virology</i> , 2003, 310, 190-196.	2.4	24
50	HIV-1 Nef Interacts with Inositol Trisphosphate Receptor to Activate Calcium Signaling in T Cells. <i>Journal of Experimental Medicine</i> , 2002, 195, 1023-1032.	8.5	74
51	Inhibition of Cellular Functions of HIV-1 Nef by Artificial SH3 Domains. <i>Virology</i> , 2001, 286, 152-159.	2.4	31
52	Human Immunodeficiency Virus Type 1 Nef Selectively Associates with a Catalytically Active Subpopulation of p21-Activated Kinase 2 (PAK2) Independently of PAK2 Binding to Nck or $\beta$ -PIX. <i>Journal of Virology</i> , 2001, 75, 2154-2160.	3.4	64
53	Activation of NFAT-Dependent Gene Expression by Nef: Conservation among Divergent Nef Alleles, Dependence on SH3 Binding and Membrane Association, and Cooperation with Protein Kinase C- $\delta$ . <i>Journal of Virology</i> , 2001, 75, 3034-3037.	3.4	53
54	Synergistic Activation of NFAT by HIV-1 Nef and the Ras/MAPK Pathway. <i>Journal of Biological Chemistry</i> , 2000, 275, 16513-16517.	3.4	95

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55	Identification of the Nef-associated kinase as p21-activated kinase 2. <i>Current Biology</i> , 1999, 9, 1407-1411.	3.9	125
56	SH3-Domain Binding Function of HIV-1 Nef Is Required for Association with a PAK-Related Kinase. <i>Virology</i> , 1998, 250, 273-282.	2.4	98
57	Cell surface expression of integrin $\alpha 24$ -subunit in the absence of $\alpha 6$ -subunit. <i>Matters</i> , 0, , .	1.0	3
58	Loss of $\alpha 6 \alpha 24$ Integrin-Mediated Hemidesmosomes Promotes Prostate Epithelial Cell Migration by Stimulating Focal Adhesion Dynamics. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	4