

Markku Varjosalo

List of Publications by Citations

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122
papers

4,591
citations

30
h-index

66
g-index

145
ext. papers

5,835
ext. citations

8.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
122	Hedgehog: functions and mechanisms. <i>Genes and Development</i> , 2008 , 22, 2454-72	12.6	901
121	Genome-wide analysis of ETS-family DNA-binding in vitro and in vivo. <i>EMBO Journal</i> , 2010 , 29, 2147-60	13	403
120	Identification of pathways regulating cell size and cell-cycle progression by RNAi. <i>Nature</i> , 2006 , 439, 1009-13	12	218
119	Divergence of hedgehog signal transduction mechanism between Drosophila and mammals. <i>Developmental Cell</i> , 2006 , 10, 177-86	10.2	190
118	Interlaboratory reproducibility of large-scale human protein-complex analysis by standardized AP-MS. <i>Nature Methods</i> , 2013 , 10, 307-14	21.6	157
117	Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling. <i>Cell</i> , 2008 , 133, 537-48	56.2	150
116	The protein interaction landscape of the human CMGC kinase group. <i>Cell Reports</i> , 2013 , 3, 1306-20	10.6	136
115	Hedgehog signaling. <i>Journal of Cell Science</i> , 2007 , 120, 3-6	5.3	104
114	Bidirectional Interplay between Vimentin Intermediate Filaments and Contractile Actin Stress Fibers. <i>Cell Reports</i> , 2015 , 11, 1511-8	10.6	102
113	Probiotic supplementation restores normal microbiota composition and function in antibiotic-treated and in caesarean-born infants. <i>Microbiome</i> , 2018 , 6, 182	16.6	101
112	Uterine leiomyoma-linked MED12 mutations disrupt mediator-associated CDK activity. <i>Cell Reports</i> , 2014 , 7, 654-60	10.6	99
111	An AP-MS- and BioID-compatible MAC-tag enables comprehensive mapping of protein interactions and subcellular localizations. <i>Nature Communications</i> , 2018 , 9, 1188	17.4	94
110	Navigating through metaproteomics data: a logbook of database searching. <i>Proteomics</i> , 2015 , 15, 3439-53	4.3	81
109	Quantitative Proteomics Analysis of Vitreous Humor from Diabetic Retinopathy Patients. <i>Journal of Proteome Research</i> , 2015 , 14, 5131-43	5.6	72
108	Damaging heterozygous mutations in NFKB1 lead to diverse immunologic phenotypes. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 782-796	11.5	69
107	Regulation of PTEN activity by p38EPKD1 signaling in neutrophils confers inflammatory responses in the lung. <i>Journal of Experimental Medicine</i> , 2012 , 209, 2229-46	16.6	68
106	Interaction proteome of human Hippo signaling: modular control of the co-activator YAP1. <i>Molecular Systems Biology</i> , 2013 , 9, 713	12.2	68

105	An Activating STAT3 Mutation Causes Neonatal Diabetes through Premature Induction of Pancreatic Differentiation. <i>Cell Reports</i> , 2017 , 19, 281-294	10.6	67
104	Molecular insights into the function of the viral RNA silencing suppressor HCPro. <i>Plant Journal</i> , 2016 , 85, 30-45	6.9	66
103	EphA2 cleavage by MT1-MMP triggers single cancer cell invasion via homotypic cell repulsion. <i>Journal of Cell Biology</i> , 2013 , 201, 467-84	7.3	60
102	Missing-in-metastasis MIM/MTSS1 promotes actin assembly at intercellular junctions and is required for integrity of kidney epithelia. <i>Journal of Cell Science</i> , 2011 , 124, 1245-55	5.3	59
101	Colonic metaproteomic signatures of active bacteria and the host in obesity. <i>Proteomics</i> , 2015 , 15, 3544-48	4.8	56
100	KSHV reactivation from latency requires Pim-1 and Pim-3 kinases to inactivate the latency-associated nuclear antigen LANA. <i>PLoS Pathogens</i> , 2009 , 5, e1000324	7.6	55
99	Systematic Analysis of Human Protein Phosphatase Interactions and Dynamics. <i>Cell Systems</i> , 2017 , 4, 430-444.e5	10.6	44
98	FGF receptor-4 (FGFR4) polymorphism acts as an activity switch of a membrane type 1 matrix metalloproteinase-FGFR4 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15786-91	11.5	41
97	Agonist-specific Protein Interactomes of Glucocorticoid and Androgen Receptor as Revealed by Proximity Mapping. <i>Molecular and Cellular Proteomics</i> , 2017 , 16, 1462-1474	7.6	40
96	Identification of candidate oncogenes in human colorectal cancers with microsatellite instability. <i>Gastroenterology</i> , 2013 , 145, 540-3.e22	13.3	40
95	Fibroblast growth factor receptor 4 regulates tumor invasion by coupling fibroblast growth factor signaling to extracellular matrix degradation. <i>Cancer Research</i> , 2010 , 70, 7851-61	10.1	39
94	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , 2016 , 7, 43220-43238	3.3	38
93	Gremlin-1 associates with fibrillin microfibrils in vivo and regulates mesothelioma cell survival through transcription factor slug. <i>Oncogenesis</i> , 2013 , 2, e66	6.6	31
92	Absence of YbeY RNase compromises the growth and enhances the virulence plasmid gene expression of <i>Yersinia enterocolitica</i> O:3. <i>Microbiology (United Kingdom)</i> , 2015 , 161, 285-299	2.9	29
91	Characterization of the clinical and immunologic phenotype and management of 157 individuals with 56 distinct heterozygous NFKB1 mutations. <i>Journal of Allergy and Clinical Immunology</i> , 2020 , 146, 901-911	11.5	29
90	A proteomics view on integrin-mediated adhesions. <i>Proteomics</i> , 2017 , 17, 1600022	4.8	29
89	Role for formin-like 1-dependent acto-myosin assembly in lipid droplet dynamics and lipid storage. <i>Nature Communications</i> , 2017 , 8, 14858	17.4	28
88	HB-GAM (pleiotrophin) reverses inhibition of neural regeneration by the CNS extracellular matrix. <i>Scientific Reports</i> , 2016 , 6, 33916	4.9	28

87	Talin-mediated force transmission and talin rod domain unfolding independently regulate adhesion signaling. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	26
86	Protein composition of 6K2-induced membrane structures formed during Potato virus A infection. <i>Molecular Plant Pathology</i> , 2016 , 17, 943-58	5.7	26
85	Isolation, characterization and complete genome sequence of Phax1: a phage of Escherichia coli O157 : H7. <i>Microbiology (United Kingdom)</i> , 2013 , 159, 1629-1638	2.9	26
84	Two missense mutations in KCNQ1 cause pituitary hormone deficiency and maternally inherited gingival fibromatosis. <i>Nature Communications</i> , 2017 , 8, 1289	17.4	25
83	Somatic MED12 mutations in prostate cancer and uterine leiomyomas promote tumorigenesis through distinct mechanisms. <i>Prostate</i> , 2016 , 76, 22-31	4.2	25
82	Myosin-18B Promotes the Assembly of Myosin II Stacks for Maturation of Contractile Actomyosin Bundles. <i>Current Biology</i> , 2019 , 29, 81-92.e5	6.3	25
81	Oncogenic Herpesvirus Utilizes Stress-Induced Cell Cycle Checkpoints for Efficient Lytic Replication. <i>PLoS Pathogens</i> , 2016 , 12, e1005424	7.6	24
80	UNC-45a promotes myosin folding and stress fiber assembly. <i>Journal of Cell Biology</i> , 2017 , 216, 4053-4072	7.3	23
79	FGFR4 phosphorylates MST1 to confer breast cancer cells resistance to MST1/2-dependent apoptosis. <i>Cell Death and Differentiation</i> , 2019 , 26, 2577-2593	12.7	23
78	Recognition of malondialdehyde-modified proteins by the C terminus of complement factor H is mediated via the polyanion binding site and impaired by mutations found in atypical hemolytic uremic syndrome. <i>Journal of Biological Chemistry</i> , 2014 , 289, 4295-306	5.4	22
77	Kinase Interaction Network Expands Functional and Disease Roles of Human Kinases. <i>Molecular Cell</i> , 2020 , 79, 504-520.e9	17.6	22
76	Protein secretome of moss plants (<i>Physcomitrella patens</i>) with emphasis on changes induced by a fungal elicitor. <i>Journal of Proteome Research</i> , 2014 , 13, 447-59	5.6	21
75	Novel TMEM173 Mutation and the Role of Disease Modifying Alleles. <i>Frontiers in Immunology</i> , 2019 , 10, 2770	8.4	21
74	Nuclear actin interactome analysis links actin to KAT14 histone acetyl transferase and mRNA splicing. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	20
73	Complement Factor H Binds to Human Serum Apolipoprotein E and Mediates Complement Regulation on High Density Lipoprotein Particles. <i>Journal of Biological Chemistry</i> , 2015 , 290, 28977-87	5.4	20
72	Gain-of-function CEBPE mutation causes noncanonical autoinflammatory inflammasomopathy. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 144, 1364-1376	11.5	20
71	Pharmacologically diverse antidepressants facilitate TRKB receptor activation by disrupting its interaction with the endocytic adaptor complex AP-2. <i>Journal of Biological Chemistry</i> , 2019 , 294, 18150-18161	5.4	18
70	Combined proximity labeling and affinity purification-mass spectrometry workflow for mapping and visualizing protein interaction networks. <i>Nature Protocols</i> , 2020 , 15, 3182-3211	18.8	18

69	MKRN3 Interacts With Several Proteins Implicated in Puberty Timing but Does Not Influence Expression. <i>Frontiers in Endocrinology</i> , 2019 , 10, 48	5.7	17
68	Human receptors patched and smoothed partially transduce hedgehog signal when expressed in Drosophila cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 28584-95	5.4	16
67	Rho-kinase inhibitor Y-27632 increases cellular proliferation and migration in human foreskin fibroblast cells. <i>Proteomics</i> , 2015 , 15, 2953-65	4.8	15
66	The human long non-coding RNA gene RMRP has pleiotropic effects and regulates cell-cycle progression at G2. <i>Scientific Reports</i> , 2019 , 9, 13758	4.9	14
65	Tropomodulins Control the Balance between Protrusive and Contractile Structures by Stabilizing Actin-Tropomyosin Filaments. <i>Current Biology</i> , 2020 , 30, 767-778.e5	6.3	14
64	Haploinsufficiency of A20 impairs protein-protein interactome and leads into caspase-8-dependent enhancement of NLRP3 inflammasome activation. <i>RMD Open</i> , 2018 , 4, e000740	5.9	14
63	Redox regulation of GRPEL2 nucleotide exchange factor for mitochondrial HSP70 chaperone. <i>Redox Biology</i> , 2018 , 19, 37-45	11.3	13
62	Release of transcriptional repression via ErbB2-induced, SUMO-directed phosphorylation of myeloid zinc finger-1 serine 27 activates lysosome redistribution and invasion. <i>Oncogene</i> , 2019 , 38, 3170-3184	9.2	13
61	Systems pathology analysis identifies neurodegenerative nature of age-related vitreoretinal interface diseases. <i>Aging Cell</i> , 2018 , 17, e12809	9.9	13
60	PWP1 Mediates Nutrient-Dependent Growth Control through Nucleolar Regulation of Ribosomal Gene Expression. <i>Developmental Cell</i> , 2017 , 43, 240-252.e5	10.2	12
59	Somatic MED12 Nonsense Mutation Escapes mRNA Decay and Reveals a Motif Required for Nuclear Entry. <i>Human Mutation</i> , 2017 , 38, 269-274	4.7	11
58	Expression of the Yersinia enterocolitica O:3 LPS O-antigen and outer core gene clusters is RfaH-dependent. <i>Microbiology (United Kingdom)</i> , 2015 , 161, 1282-94	2.9	11
57	The F1 loop of the talin head domain acts as a gatekeeper in integrin activation and clustering. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	11
56	Predegenerated Schwann cells--a novel prospect for cell therapy for glaucoma: neuroprotection, neuroregeneration and neuroplasticity. <i>Scientific Reports</i> , 2016 , 6, 23187	4.9	11
55	The cytoprotective protein MANF promotes neuronal survival independently from its role as a GRP78 cofactor. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100295	5.4	11
54	Combined immunodeficiency and hypoglycemia associated with mutations in hypoxia upregulated 1. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 139, 1391-1393.e11	11.5	10
53	Assembly of the β -Integrin Interactome Based on Proximal Biotinylation in the Presence and Absence of Heterodimerization. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 277-293	7.6	10
52	Candidate proteins from predegenerated nerve exert time-specific protection of retinal ganglion cells in glaucoma. <i>Scientific Reports</i> , 2017 , 7, 14540	4.9	9

51	Anagrelide for Gastrointestinal Stromal Tumor. <i>Clinical Cancer Research</i> , 2019 , 25, 1676-1687	12.9	9
50	SUMOylation regulates the protein network and chromatin accessibility at glucocorticoid receptor-binding sites. <i>Nucleic Acids Research</i> , 2021 , 49, 1951-1971	20.1	9
49	PTPRA Phosphatase Regulates GDNF-Dependent RET Signaling and Inhibits the RET Mutant MEN2A Oncogenic Potential. <i>iScience</i> , 2020 , 23, 100871	6.1	8
48	Nuclear proteome of virus-infected and healthy potato leaves. <i>BMC Plant Biology</i> , 2020 , 20, 355	5.3	7
47	Behçet disease (BD) and BD-like clinical phenotypes: NF- κ B pathway in mucosal ulcerating diseases. <i>Scandinavian Journal of Immunology</i> , 2020 , 92, e12973	3.4	7
46	Biallelic mutations in human NHLRC2 enhance myofibroblast differentiation in FINCA disease. <i>Human Molecular Genetics</i> , 2018 , 27, 4288-4302	5.6	7
45	ER-Targeted Beclin 1 Supports Autophagosome Biogenesis in the Absence of ULK1 and ULK2 Kinases. <i>Cells</i> , 2019 , 8,	7.9	6
44	Loss-of-Function Variants in TBC1D32 Underlie Syndromic Hypopituitarism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	6
43	Comprehensive evaluation of coding region point mutations in microsatellite-unstable colorectal cancer. <i>EMBO Molecular Medicine</i> , 2018 , 10,	12	6
42	Dominant TOM1 mutation associated with combined immunodeficiency and autoimmune disease. <i>Npj Genomic Medicine</i> , 2019 , 4, 14	6.2	6
41	Human transcription factor protein interaction networks.. <i>Nature Communications</i> , 2022 , 13, 766	17.4	6
40	Electrical synapses interconnecting axons revealed in the optic nerve head - a novel model of gap junctionsUnvolvement in optic nerve function. <i>Acta Ophthalmologica</i> , 2020 , 98, 408-417	3.7	6
39	Molecular pathogenesis of rhegmatogenous retinal detachment. <i>Scientific Reports</i> , 2021 , 11, 966	4.9	6
38	Increased intraocular pressure alters the cellular distribution of HuR protein in retinal ganglion cells - A possible sign of endogenous neuroprotection failure. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 296-306	6.9	6
37	High-Resolution Confocal Fluorescence Imaging of Serine Hydrolase Activity in Cryosections - Application to Glioma Brain Unveils Activity Hotspots Originating from Tumor-Associated Neutrophils. <i>Biological Procedures Online</i> , 2020 , 22, 6	8.3	5
36	Functional and structural properties of a novel protein and virulence factor (Protein sHIP) in <i>Streptococcus pyogenes</i> . <i>Journal of Biological Chemistry</i> , 2014 , 289, 18175-88	5.4	5
35	Loss-of-function mutation in leads to immunodeficiency with dysregulated germinal center reactions and reduction of MAIT cells. <i>Science Immunology</i> , 2021 , 6, eabe3454	28	5
34	SARS-CoV-2-host proteome interactions for antiviral drug discovery. <i>Molecular Systems Biology</i> , 2021 , 17, e10396	12.2	5

33	Association of host protein VARICOSE with HCPPro within a multiprotein complex is crucial for RNA silencing suppression, translation, encapsidation and systemic spread of potato virus A infection. <i>PLoS Pathogens</i> , 2020 , 16, e1008956	7.6	5
32	RTN4B interacting protein FAM134C promotes ER membrane curvature and has a functional role in autophagy. <i>Molecular Biology of the Cell</i> , 2021 , 32, 1158-1170	3.5	5
31	Ribosome profiles and riboproteomes of healthy and Potato virus A- and Agrobacterium-infected <i>Nicotiana benthamiana</i> plants. <i>Molecular Plant Pathology</i> , 2019 , 20, 392-409	5.7	5
30	One-step purification of twin-strep-tagged proteins and their complexes on strep-tactin resin cross-linked with bis(sulfosuccinimidyl) suberate (BS3). <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	4
29	Several Hfq-dependent alterations in physiology of <i>Yersinia enterocolitica</i> O:3 are mediated by derepression of the transcriptional regulator RovM. <i>Molecular Microbiology</i> , 2017 , 103, 1065-1091	4.1	3
28	Novel Hemizygous IL2RG p.(Pro58Ser) Mutation Impairs IL-2 Receptor Complex Expression on Lymphocytes Causing X-Linked Combined Immunodeficiency. <i>Journal of Clinical Immunology</i> , 2020 , 40, 503-514	5.7	3
27	Human transcription factor and protein kinase gene fusions in human cancer. <i>Scientific Reports</i> , 2020 , 10, 14169	4.9	3
26	The comprehensive interactomes of human adenosine RNA methyltransferases and demethylases reveal distinct functional and regulatory features. <i>Nucleic Acids Research</i> , 2021 , 49, 10895-10910	20.1	3
25	Pool-seq driven proteogenomic database for Group G Streptococcus. <i>Journal of Proteomics</i> , 2019 , 201, 84-92	3.9	2
24	Rapid genome editing by CRISPR-Cas9-POLD3 fusion.. <i>ELife</i> , 2021 , 10,	8.9	2
23	Germline biallelic mutation affecting the transcription factor Helios causes pleiotropic defects of immunity. <i>Science Immunology</i> , 2021 , 6, eabe3981	28	2
22	DUX4 regulates oocyte to embryo transition in human		2
21	Design, synthesis and characterization of a PEGylated stanozolol for potential therapeutic applications. <i>International Journal of Pharmaceutics</i> , 2020 , 573, 118826	6.5	2
20	Dominant NFKB1 Mutations Cause Antibody Deficiency and Autoinflammatory Episodes. <i>Blood</i> , 2015 , 126, 206-206	2.2	1
19	Proximity-Dependent Biotinylation (BioID) of Integrin Interaction Partners. <i>Methods in Molecular Biology</i> , 2021 , 2217, 57-69	1.4	1
18	Pharmacologically diverse antidepressant drugs disrupt the interaction of BDNF receptor TRKB and the endocytic adaptor AP-2		1
17	PROX1 transcription factor is a master regulator of myogenic and oncogenic features of rhabdomyosarcoma		1
16	Missing-in-metastasis MIM/MTSS1 promotes actin assembly at intercellular junctions and is required for integrity of kidney epithelia. <i>Development (Cambridge)</i> , 2011 , 138, e1-e1	6.6	1

15	GATA-targeted compounds modulate cardiac subtype cell differentiation in dual reporter stem cell line. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 190	8.3	1
14	Fetal-like reversion in the regenerating intestine is regulated by mesenchymal Asporin		1
13	Skeletal muscle proteomes reveal downregulation of mitochondrial proteins in transition from prediabetes into type 2 diabetes. <i>IScience</i> , 2021 , 24, 102712	6.1	1
12	P85Combined transcriptomics, proteomics and metabolomics analysis identifies metabolic pathways associated with the loss of cardiac regeneration. <i>Cardiovascular Research</i> , 2018 , 114, S22-S23	9.9	1
11	Physical and functional interactome atlas of human receptor tyrosine kinases		1
10	is a multifunctional factor priming human embryonic genome activation.. <i>IScience</i> , 2022 , 25, 104137	6.1	1
9	Identification of Germline Monoallelic Mutations in IKZF2 in Patients with Immune Dysregulation.. <i>Blood Advances</i> , 2021 ,	7.8	1
8	Mutation Is Associated with Increased STAT1 and STAT5 Activation in Two Family Members with Inflammatory Conditions and Lymphopenia. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	0
7	Physical and functional interactome atlas of human receptor tyrosine kinases.. <i>EMBO Reports</i> , 2022 , e54041	6.1	0
6	Parvovirus nonstructural protein 2 interacts with chromatin-regulating cellular proteins.. <i>PLoS Pathogens</i> , 2022 , 18, e1010353	7.6	0
5	Analysis of human brain tissue derived from DBS surgery.. <i>Translational Neurodegeneration</i> , 2022 , 11, 22	10.3	0
4	New insights into the molecular mechanisms of ROR1, ROR2, and PTK7 signaling from the proteomics and pharmacological modulation of ROR1 interactome.. <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 276	10.3	0
3	A second hybrid-binding domain modulates the activity of Drosophila ribonuclease H1. <i>Journal of Biochemistry</i> , 2020 , 168, 515-533	3.1	
2	Regulation of PTEN activity by p38d-PKD1 signaling in neutrophils confers inflammatory responses in the lung. <i>Journal of Cell Biology</i> , 2012 , 199, i6-i6	7.3	
1	BCOR modulates transcriptional activity of a subset of glucocorticoid receptor target genes involved in cell growth and mobility. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021 , 210, 105873	5.1	