

Markku Varjosalo

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

6,692
citations

94433

37
h-index

74163

75
g-index

145
all docs

145
docs citations

145
times ranked

12103
citing authors

#	ARTICLE	IF	CITATIONS
1	Hedgehog: functions and mechanisms. <i>Genes and Development</i> , 2008, 22, 2454-2472.	5.9	1,087
2	Genome-wide analysis of ETS-family DNA-binding in vitro and in vivo. <i>EMBO Journal</i> , 2010, 29, 2147-2160.	7.8	497
3	Identification of pathways regulating cell size and cell-cycle progression by RNAi. <i>Nature</i> , 2006, 439, 1009-1013.	27.8	258
4	Divergence of Hedgehog Signal Transduction Mechanism between <i>Drosophila</i> and Mammals. <i>Developmental Cell</i> , 2006, 10, 177-186.	7.0	204
5	Interlaboratory reproducibility of large-scale human protein-complex analysis by standardized AP-MS. <i>Nature Methods</i> , 2013, 10, 307-314.	19.0	192
6	An AP-MS- and BioID-compatible MAC-tag enables comprehensive mapping of protein interactions and subcellular localizations. <i>Nature Communications</i> , 2018, 9, 1188.	12.8	191
7	The Protein Interaction Landscape of the Human CMGC Kinase Group. <i>Cell Reports</i> , 2013, 3, 1306-1320.	6.4	178
8	Application of Active and Kinase-Deficient Kinome Collection for Identification of Kinases Regulating Hedgehog Signaling. <i>Cell</i> , 2008, 133, 537-548.	28.9	171
9	Probiotic supplementation restores normal microbiota composition and function in antibiotic-treated and in caesarean-born infants. <i>Microbiome</i> , 2018, 6, 182.	11.1	160
10	Bidirectional Interplay between Vimentin Intermediate Filaments and Contractile Actin Stress Fibers. <i>Cell Reports</i> , 2015, 11, 1511-1518.	6.4	157
11	Molecular insights into the function of the viral <i><sc>RNA</sc></i> silencing suppressor <i><sc>HCP</sc></i> . <i>Plant Journal</i> , 2016, 85, 30-45.	5.7	137
12	Navigating through metaproteomics data: A logbook of database searching. <i>Proteomics</i> , 2015, 15, 3439-3453.	2.2	128
13	Uterine Leiomyoma-Linked MED12 Mutations Disrupt Mediator-Associated CDK Activity. <i>Cell Reports</i> , 2014, 7, 654-660.	6.4	125
14	Hedgehog signaling. <i>Journal of Cell Science</i> , 2007, 120, 3-6.	2.0	123
15	Damaging heterozygous mutations in NFKB1 lead to diverse immunologic phenotypes. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 782-796.	2.9	113
16	Quantitative Proteomics Analysis of Vitreous Humor from Diabetic Retinopathy Patients. <i>Journal of Proteome Research</i> , 2015, 14, 5131-5143.	3.7	98
17	An Activating STAT3 Mutation Causes Neonatal Diabetes through Premature Induction of Pancreatic Differentiation. <i>Cell Reports</i> , 2017, 19, 281-294.	6.4	94
18	Interaction proteome of human <i><sc>H</sc></i> signaling: modular control of the coactivator <i><sc>YAP</sc></i> 1. <i>Molecular Systems Biology</i> , 2013, 9, 713.	7.2	82

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19	Regulation of PTEN activity by p38 β -PKD1 signaling in neutrophils confers inflammatory responses in the lung. <i>Journal of Experimental Medicine</i> , 2012, 209, 2229-2246.	8.5	80
20	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.	2.9	78
21	EphA2 cleavage by MT1-MMP triggers single cancer cell invasion via homotypic cell repulsion. <i>Journal of Cell Biology</i> , 2013, 201, 467-484.	5.2	75
22	Combined proximity labeling and affinity purification ^ mass spectrometry workflow for mapping and visualizing protein interaction networks. <i>Nature Protocols</i> , 2020, 15, 3182-3211.	12.0	75
23	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, 1245-1255.	2.0	74
24	Kinase Interaction Network Expands Functional and Disease Roles of Human Kinases. <i>Molecular Cell</i> , 2020, 79, 504-520.e9.	9.7	74
25	Colonic metaproteomic signatures of active bacteria and the host in obesity. <i>Proteomics</i> , 2015, 15, 3544-3552.	2.2	70
26	Identification of Candidate Oncogenes in Human Colorectal Cancers With Microsatellite Instability. <i>Gastroenterology</i> , 2013, 145, 540-543.e22.	1.3	65
27	Systematic Analysis of Human Protein Phosphatase Interactions and Dynamics. <i>Cell Systems</i> , 2017, 4, 430-444.e5.	6.2	65
28	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.	4.7	59
29	Human transcription factor protein interaction networks. <i>Nature Communications</i> , 2022, 13, 766.	12.8	59
30	A proteomics view on integrin - mediated adhesions. <i>Proteomics</i> , 2017, 17, 1600022.	2.2	57
31	Agonist-specific Protein Interactomes of Glucocorticoid and Androgen Receptor as Revealed by Proximity Mapping. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1462-1474.	3.8	55
32	SARS - CoV $\text{-}2$ - host proteome interactions for antiviral drug discovery. <i>Molecular Systems Biology</i> , 2021, 17, e10396.	7.2	53
33	Fibroblast Growth Factor Receptor 4 Regulates Tumor Invasion by Coupling Fibroblast Growth Factor Signaling to Extracellular Matrix Degradation. <i>Cancer Research</i> , 2010, 70, 7851-7861.	0.9	49
34	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, 15786-15791.	7.1	49
35	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , 2016, 7, 43220-43238.	1.8	49
36	Role for formin-like 1-dependent acto-myosin assembly in lipid droplet dynamics and lipid storage. <i>Nature Communications</i> , 2017, 8, 14858.	12.8	48

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37	Novel TMEM173 Mutation and the Role of Disease Modifying Alleles. <i>Frontiers in Immunology</i> , 2019, 10, 2770.	4.8	45
38	HB-GAM (pleiotrophin) reverses inhibition of neural regeneration by the CNS extracellular matrix. <i>Scientific Reports</i> , 2016, 6, 33916.	3.3	43
39	Myosin-18B Promotes the Assembly of Myosin II Stacks for Maturation of Contractile Actomyosin Bundles. <i>Current Biology</i> , 2019, 29, 81-92.e5.	3.9	43
40	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.	3.4	42
41	UNC-45a promotes myosin folding and stress fiber assembly. <i>Journal of Cell Biology</i> , 2017, 216, 4053-4072.	5.2	40
42	Nuclear actin interactome analysis links actin to KAT14 histone acetyl transferase and mRNA splicing. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	38
43	FGFR4 phosphorylates MST1 to confer breast cancer cells resistance to MST1/2-dependent apoptosis. <i>Cell Death and Differentiation</i> , 2019, 26, 2577-2593.	11.2	38
44	Talin-mediated force transmission and talin rod domain unfolding independently regulate adhesion signaling. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	38
45	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, 447-459.	3.7	37
46	Protein composition of 6K2-induced membrane structures formed during <i>Potato virus A</i> infection. <i>Molecular Plant Pathology</i> , 2016, 17, 943-958.	4.2	37
47	Gain-of-function CEBPE mutation causes noncanonical autoinflammatory inflammasomopathy. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1364-1376.	2.9	37
48	Gremlin-1 associates with fibrillin microfibrils in vivo and regulates mesothelioma cell survival through transcription factor slug. <i>Oncogenesis</i> , 2013, 2, e66-e66.	4.9	35
49	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.	1.8	33
50	Somatic <i>MED12</i> mutations in prostate cancer and uterine leiomyomas promote tumorigenesis through distinct mechanisms. <i>Prostate</i> , 2016, 76, 22-31.	2.3	33
51	Two missense mutations in <i>KCNQ1</i> cause pituitary hormone deficiency and maternally inherited gingival fibromatosis. <i>Nature Communications</i> , 2017, 8, 1289.	12.8	33
52	Isolation, characterization and complete genome sequence of Phax1: a phage of <i>Escherichia coli</i> O157:H7. <i>Microbiology (United Kingdom)</i> , 2013, 159, 1629-1638.	1.8	32
53	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, 28977-28987.	3.4	31
54	MKRN3 Interacts With Several Proteins Implicated in Puberty Timing but Does Not Influence <i>GNRH1</i> Expression. <i>Frontiers in Endocrinology</i> , 2019, 10, 48.	3.5	31

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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.	3.4	31
56	Oncogenic Herpesvirus Utilizes Stress-Induced Cell Cycle Checkpoints for Efficient Lytic Replication. <i>PLoS Pathogens</i> , 2016, 12, e1005424.	4.7	30
57	Loss-of-function mutation in <i>IKZF2</i> leads to immunodeficiency with dysregulated germinal center reactions and reduction of MAIT cells. <i>Science Immunology</i> , 2021, 6, eabe3454.	11.9	30
58	Tropomodulins Control the Balance between Protrusive and Contractile Structures by Stabilizing Actin-Tropomyosin Filaments. <i>Current Biology</i> , 2020, 30, 767-778.e5.	3.9	29
59	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, 4295-4306.	3.4	26
60	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.	3.8	26
61	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.	14.5	26
62	Redox regulation of GRPEL2 nucleotide exchange factor for mitochondrial HSP70 chaperone. <i>Redox Biology</i> , 2018, 19, 37-45.	9.0	25
63	PWP1 Mediates Nutrient-Dependent Growth Control through Nucleolar Regulation of Ribosomal Gene Expression. <i>Developmental Cell</i> , 2017, 43, 240-252.e5.	7.0	24
64	SUMOylation regulates the protein network and chromatin accessibility at glucocorticoid receptor-binding sites. <i>Nucleic Acids Research</i> , 2021, 49, 1951-1971.	14.5	23
65	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.	3.3	22
66	Rho-kinase inhibitor Y-27632 increases cellular proliferation and migration in human foreskin fibroblast cells. <i>Proteomics</i> , 2015, 15, 2953-2965.	2.2	21
67	Somatic <i>MED12</i> Nonsense Mutation Escapes mRNA Decay and Reveals a Motif Required for Nuclear Entry. <i>Human Mutation</i> , 2017, 38, 269-274.	2.5	20
68	Skeletal muscle proteomes reveal downregulation of mitochondrial proteins in transition from prediabetes into type 2 diabetes. <i>iScience</i> , 2021, 24, 102712.	4.1	20
69	DUX4 is a multifunctional factor priming human embryonic genome activation. <i>iScience</i> , 2022, 25, 104137.	4.1	20
70	Assembly of the β 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
71	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.	4.7	19
72	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, .	2.0	18

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73	Physical and functional interactome atlas of human receptor tyrosine kinases. <i>EMBO Reports</i> , 2022, 23, e54041.	4.5	18
74	Identification of germline monoallelic mutations in <i>IKZF2</i> in patients with immune dysregulation. <i>Blood Advances</i> , 2022, 6, 2444-2451.	5.2	18
75	Human Receptors Patched and Smoothed Partially Transduce Hedgehog Signal When Expressed in <i>Drosophila</i> Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 28584-28595.	3.4	17
76	Systems pathology analysis identifies neurodegenerative nature of age-related vitreoretinal interface diseases. <i>Aging Cell</i> , 2018, 17, e12809.	6.7	17
77	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.	5.9	17
78	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.	2.7	17
79	Molecular pathogenesis of rhegmatogenous retinal detachment. <i>Scientific Reports</i> , 2021, 11, 966.	3.3	16
80	Germline biallelic mutation affecting the transcription factor Helios causes pleiotropic defects of immunity. <i>Science Immunology</i> , 2021, 6, eabe3981.	11.9	16
81	Predegenerated Schwann cells—a novel prospect for cell therapy for glaucoma: neuroprotection, neuroregeneration and neuroplasticity. <i>Scientific Reports</i> , 2016, 6, 23187.	3.3	15
82	Electrical synapses interconnecting axons revealed in the optic nerve head—a novel model of gap junctions™ involvement in optic nerve function. <i>Acta Ophthalmologica</i> , 2020, 98, 408-417.	1.1	15
83	Loss-of-Function Variants in <i>TBC1D32</i> Underlie Syndromic Hypopituitarism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 1748-1758.	3.6	15
84	Combined immunodeficiency and hypoglycemia associated with mutations in hypoxia upregulated 1. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1391-1393.e11.	2.9	14
85	Anagrelide for Gastrointestinal Stromal Tumor. <i>Clinical Cancer Research</i> , 2019, 25, 1676-1687.	7.0	14
86	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.	2.1	14
87	Expression of the <i>Yersinia enterocolitica</i> O:3 LPS O-antigen and outer core gene clusters is RfaH-dependent. <i>Microbiology (United Kingdom)</i> , 2015, 161, 1282-1294.	1.8	13
88	Candidate proteins from predegenerated nerve exert time-specific protection of retinal ganglion cells in glaucoma. <i>Scientific Reports</i> , 2017, 7, 14540.	3.3	13
89	Biallelic mutations in human NHLRC2 enhance myofibroblast differentiation in FINCA disease. <i>Human Molecular Genetics</i> , 2018, 27, 4288-4302.	2.9	13
90	Ribosome profiles and riboproteomes of healthy and Potato virus A and <i>Agrobacterium</i> -infected <i>Nicotiana benthamiana</i> plants. <i>Molecular Plant Pathology</i> , 2019, 20, 392-409.	4.2	13

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91	ER-Targeted Beclin 1 Supports Autophagosome Biogenesis in the Absence of ULK1 and ULK2 Kinases. <i>Cells</i> , 2019, 8, 475.	4.1	12
92	Dominant TOM1 mutation associated with combined immunodeficiency and autoimmune disease. <i>Npj Genomic Medicine</i> , 2019, 4, 14.	3.8	11
93	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.	3.8	11
94	Rapid genome editing by CRISPR-Cas9-POLD3 fusion. <i>ELife</i> , 2021, 10, .	6.0	11
95	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.	3.8	10
96	Comprehensive evaluation of coding region point mutations in microsatellite-unstable colorectal cancer. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	10
97	Nuclear proteome of virus-infected and healthy potato leaves. <i>BMC Plant Biology</i> , 2020, 20, 355.	3.6	10
98	PTPRA Phosphatase Regulates GDNF-Dependent RET Signaling and Inhibits the RET Mutant MEN2A Oncogenic Potential. <i>IScience</i> , 2020, 23, 100871.	4.1	10
99	Human transcription factor and protein kinase gene fusions in human cancer. <i>Scientific Reports</i> , 2020, 10, 14169.	3.3	9
100	Parvovirus nonstructural protein 2 interacts with chromatin-regulating cellular proteins. <i>PLoS Pathogens</i> , 2022, 18, e1010353.	4.7	9
101	Commander Complex – A Multifaceted Operator in Intracellular Signaling and Cargo. <i>Cells</i> , 2021, 10, 3447.	4.1	9
102	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, , .	0.3	7
103	GATA-targeted compounds modulate cardiac subtype cell differentiation in dual reporter stem cell line. <i>Stem Cell Research and Therapy</i> , 2021, 12, 190.	5.5	7
104	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, 18175-18188.	3.4	6
105	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.	2.9	6
106	IRF2BP2 Mutation Is Associated with Increased STAT1 and STAT5 Activation in Two Family Members with Inflammatory Conditions and Lymphopenia. <i>Pharmaceuticals</i> , 2021, 14, 797.	3.8	6
107	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.	2.5	4
108	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.	5.4	4

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109	Design, synthesis and characterization of a PEGylated stanozolol for potential therapeutic applications. <i>International Journal of Pharmaceutics</i> , 2020, 573, 118826.	5.2	3
110	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.	2.5	3
111	Analysis of human brain tissue derived from DBS surgery. <i>Translational Neurodegeneration</i> , 2022, 11, 22.	8.0	3
112	Defining Optimal Conditions for Tumor Extracellular Vesicle DNA Extraction for Mutation Profiling. <i>Cancers</i> , 2022, 14, 3258.	3.7	3
113	Pool-seq driven proteogenomic database for Group G <i>Streptococcus</i> . <i>Journal of Proteomics</i> , 2019, 201, 84-92.	2.4	2
114	Proximity-Dependent Biotinylation (BioID) of Integrin Interaction Partners. <i>Methods in Molecular Biology</i> , 2021, 2217, 57-69.	0.9	2
115	P85Combined transcriptomics, proteomics and metabolomics analysis identifies metabolic pathways associated with the loss of cardiac regeneration. <i>Cardiovascular Research</i> , 2018, 114, S22-S23.	3.8	1
116	Dominant NFKB1 Mutations Cause Antibody Deficiency and Autoinflammatory Episodes. <i>Blood</i> , 2015, 126, 206-206.	1.4	1
117	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.	2.5	1
118	Human pluripotent stem cell-derived cells endogenously expressing follicle-stimulating hormone receptors: modeling the function of an inactivating receptor mutation. <i>Molecular Human Reproduction</i> , 2022, 28, .	2.8	1
119	A second hybrid-binding domain modulates the activity of <i>Drosophila</i> ribonuclease H1. <i>Journal of Biochemistry</i> , 2020, 168, 515-533.	1.7	0
120	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.	5.2	0