

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	Human transcription factor protein interaction networks. Nature Communications, 2022, 13, 766.	12.8	59
2	DUX4 is a multifunctional factor priming human embryonic genome activation. IScience, 2022, 25, 104137.	4.1	20
3	Physical and functional interactome atlas of human receptor tyrosine kinases. EMBO Reports, 2022, 23, e54041.	4.5	18
4	Parvovirus nonstructural protein 2 interacts with chromatin-regulating cellular proteins. PLoS Pathogens, 2022, 18, e1010353.	4.7	9
5	Identification of germline monoallelic mutations in <i>IKZF2</i> in patients with immune dysregulation. Blood Advances, 2022, 6, 2444-2451.	5.2	18
6	Analysis of human brain tissue derived from DBS surgery. Translational Neurodegeneration, 2022, 11, 22.	8.0	3
7	Human pluripotent stem cell-derived cells endogenously expressing follicle-stimulating hormone receptors: modeling the function of an inactivating receptor mutation. Molecular Human Reproduction, 2022, 28, .	2.8	1
8	New insights into the molecular mechanisms of ROR1, ROR2, and PTK7 signaling from the proteomics and pharmacological modulation of ROR1 interactome. Cellular and Molecular Life Sciences, 2022, 79, 276.	5.4	4
9	Defining Optimal Conditions for Tumor Extracellular Vesicle DNA Extraction for Mutation Profiling. Cancers, 2022, 14, 3258.	3.7	3
10	The cytoprotective protein MANF promotes neuronal survival independently from its role as a GRP78 cofactor. Journal of Biological Chemistry, 2021, 296, 100295.	3.4	31
11	Molecular pathogenesis of rhegmatogenous retinal detachment. Scientific Reports, 2021, 11, 966.	3.3	16
12	SUMOylation regulates the protein network and chromatin accessibility at glucocorticoid receptor-binding sites. Nucleic Acids Research, 2021, 49, 1951-1971.	14.5	23
13	GATA-targeted compounds modulate cardiac subtype cell differentiation in dual reporter stem cell line. Stem Cell Research and Therapy, 2021, 12, 190.	5.5	7
14	BCOR modulates transcriptional activity of a subset of glucocorticoid receptor target genes involved in cell growth and mobility. Journal of Steroid Biochemistry and Molecular Biology, 2021, 210, 105873.	2.5	3
15	RTN4B interacting protein FAM134C promotes ER membrane curvature and has a functional role in autophagy. Molecular Biology of the Cell, 2021, 32, 1158-1170.	2.1	14
16	Skeletal muscle proteomes reveal downregulation of mitochondrial proteins in transition from prediabetes into type 2 diabetes. IScience, 2021, 24, 102712.	4.1	20
17	IRF2BP2 Mutation Is Associated with Increased STAT1 and STAT5 Activation in Two Family Members with Inflammatory Conditions and Lymphopenia. Pharmaceuticals, 2021, 14, 797.	3.8	6
18	The comprehensive interactomes of human adenosine RNA methyltransferases and demethylases reveal distinct functional and regulatory features. Nucleic Acids Research, 2021, 49, 10895-10910.	14.5	26

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19	SARS-CoV-2 host proteome interactions for antiviral drug discovery. <i>Molecular Systems Biology</i> , 2021, 17, e10396.	7.2	53
20	Proximity-Dependent Biotinylation (BioID) of Integrin Interaction Partners. <i>Methods in Molecular Biology</i> , 2021, 2217, 57-69.	0.9	2
21	Germline biallelic mutation affecting the transcription factor Helios causes pleiotropic defects of immunity. <i>Science Immunology</i> , 2021, 6, eabe3981.	11.9	16
22	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
23	Rapid genome editing by CRISPR-Cas9-POLD3 fusion. <i>ELife</i> , 2021, 10, .	6.0	11
24	Commander Complex A Multifaceted Operator in Intracellular Signaling and Cargo. <i>Cells</i> , 2021, 10, 3447.	4.1	9
25	Design, synthesis and characterization of a PEGylated stanozolol for potential therapeutic applications. <i>International Journal of Pharmaceutics</i> , 2020, 573, 118826.	5.2	3
26	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
27	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
28	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
29	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
30	Kinase Interaction Network Expands Functional and Disease Roles of Human Kinases. <i>Molecular Cell</i> , 2020, 79, 504-520.e9.	9.7	74
31	Nuclear proteome of virus-infected and healthy potato leaves. <i>BMC Plant Biology</i> , 2020, 20, 355.	3.6	10
32	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
33	Human transcription factor and protein kinase gene fusions in human cancer. <i>Scientific Reports</i> , 2020, 10, 14169.	3.3	9
34	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
35	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
36	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

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37	PTPRA Phosphatase Regulates GDNF-Dependent RET Signaling and Inhibits the RET Mutant MEN2A Oncogenic Potential. <i>IScience</i> , 2020, 23, 100871.	4.1	10
38	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
39	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
40	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
41	Gain-of-function CEBPE mutation causes noncanonical autoinflammatory inflammasomopathy. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1364-1376.	2.9	37
42	Dominant TOM1 mutation associated with combined immunodeficiency and autoimmune disease. <i>Npj Genomic Medicine</i> , 2019, 4, 14.	3.8	11
43	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
44	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
45	ER-Targeted Beclin 1 Supports Autophagosome Biogenesis in the Absence of ULK1 and ULK2 Kinases. <i>Cells</i> , 2019, 8, 475.	4.1	12
46	Pool-seq driven proteogenomic database for Group G Streptococcus. <i>Journal of Proteomics</i> , 2019, 201, 84-92.	2.4	2
47	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
48	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
49	Talin-mediated force transmission and talin rod domain unfolding independently regulate adhesion signaling. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	38
50	MKRN3 Interacts With Several Proteins Implicated in Puberty Timing but Does Not Influence GNRH1 Expression. <i>Frontiers in Endocrinology</i> , 2019, 10, 48.	3.5	31
51	Novel TMEM173 Mutation and the Role of Disease Modifying Alleles. <i>Frontiers in Immunology</i> , 2019, 10, 2770.	4.8	45
52	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
53	Assembly of the β 2-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
54	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

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55	Ribosome profiles and riboproteomes of healthy and Potato virus A and Agrobacterium infected Nicotiana benthamiana plants. <i>Molecular Plant Pathology</i> , 2019, 20, 392-409.	4.2	13
56	Anagrelide for Gastrointestinal Stromal Tumor. <i>Clinical Cancer Research</i> , 2019, 25, 1676-1687.	7.0	14
57	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
58	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
59	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
60	Biallelic mutations in human NHLRC2 enhance myofibroblast differentiation in FINCA disease. <i>Human Molecular Genetics</i> , 2018, 27, 4288-4302.	2.9	13
61	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
62	P85 Combined 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
63	Systems pathology analysis identifies neurodegenerative nature of age-related vitreoretinal interface diseases. <i>Aging Cell</i> , 2018, 17, e12809.	6.7	17
64	Redox regulation of GRPEL2 nucleotide exchange factor for mitochondrial HSP70 chaperone. <i>Redox Biology</i> , 2018, 19, 37-45.	9.0	25
65	Comprehensive evaluation of coding region point mutations in microsatellite-unstable colorectal cancer. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	10
66	Somatic MED12 Nonsense Mutation Escapes mRNA Decay and Reveals a Motif Required for Nuclear Entry. <i>Human Mutation</i> , 2017, 38, 269-274.	2.5	20
67	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
68	An Activating STAT3 Mutation Causes Neonatal Diabetes through Premature Induction of Pancreatic Differentiation. <i>Cell Reports</i> , 2017, 19, 281-294.	6.4	94
69	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
70	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
71	Systematic Analysis of Human Protein Phosphatase Interactions and Dynamics. <i>Cell Systems</i> , 2017, 4, 430-444.e5.	6.2	65
72	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

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73	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
74	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
75	UNC-45a promotes myosin folding and stress fiber assembly. <i>Journal of Cell Biology</i> , 2017, 216, 4053-4072.	5.2	40
76	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
77	Two missense mutations in KCNQ1 cause pituitary hormone deficiency and maternally inherited gingival fibromatosis. <i>Nature Communications</i> , 2017, 8, 1289.	12.8	33
78	A proteomics view on integrin-mediated adhesions. <i>Proteomics</i> , 2017, 17, 1600022.	2.2	57
79	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
80	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
81	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
82	HB-GAM (pleiotrophin) reverses inhibition of neural regeneration by the CNS extracellular matrix. <i>Scientific Reports</i> , 2016, 6, 33916.	3.3	43
83	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
84	Molecular insights into the function of the viral RNA silencing suppressor HCP. <i>Plant Journal</i> , 2016, 85, 30-45.	5.7	137
85	Oncogenic Herpesvirus Utilizes Stress-Induced Cell Cycle Checkpoints for Efficient Lytic Replication. <i>PLoS Pathogens</i> , 2016, 12, e1005424.	4.7	30
86	Colonic metaproteomic signatures of active bacteria and the host in obesity. <i>Proteomics</i> , 2015, 15, 3544-3552.	2.2	70
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	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
89	Bidirectional Interplay between Vimentin Intermediate Filaments and Contractile Actin Stress Fibers. <i>Cell Reports</i> , 2015, 11, 1511-1518.	6.4	157
90	Navigating through metaproteomics data: A logbook of database searching. <i>Proteomics</i> , 2015, 15, 3439-3453.	2.2	128

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91	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
92	Quantitative Proteomics Analysis of Vitreous Humor from Diabetic Retinopathy Patients. <i>Journal of Proteome Research</i> , 2015, 14, 5131-5143.	3.7	98
93	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
94	Dominant NFKB1 Mutations Cause Antibody Deficiency and Autoinflammatory Episodes. <i>Blood</i> , 2015, 126, 206-206.	1.4	1
95	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
96	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
97	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
98	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
99	Uterine Leiomyoma-Linked MED12 Mutations Disrupt Mediator-Associated CDK Activity. <i>Cell Reports</i> , 2014, 7, 654-660.	6.4	125
100	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
101	Identification of Candidate Oncogenes in Human Colorectal Cancers With Microsatellite Instability. <i>Gastroenterology</i> , 2013, 145, 540-543.e22.	1.3	65
102	Interlaboratory reproducibility of large-scale human protein-complex analysis by standardized AP-MS. <i>Nature Methods</i> , 2013, 10, 307-314.	19.0	192
103	The Protein Interaction Landscape of the Human CMGC Kinase Group. <i>Cell Reports</i> , 2013, 3, 1306-1320.	6.4	178
104	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
105	Interaction proteome of human H ₂ O ₂ signaling: modular control of the co-activator YAP1. <i>Molecular Systems Biology</i> , 2013, 9, 713.	7.2	82
106	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
107	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
108	Regulation of PTEN activity by p38 δ -PKD1 signaling in neutrophils confers inflammatory responses in the lung. <i>Journal of Cell Biology</i> , 2012, 199, i6-i6.	5.2	0

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109	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
110	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
111	Genome-wide analysis of ETS-family DNA-binding in vitro and in vivo. <i>EMBO Journal</i> , 2010, 29, 2147-2160.	7.8	497
112	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
113	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
114	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
115	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
116	Hedgehog: functions and mechanisms. <i>Genes and Development</i> , 2008, 22, 2454-2472.	5.9	1,087
117	Hedgehog signaling. <i>Journal of Cell Science</i> , 2007, 120, 3-6.	2.0	123
118	Divergence of Hedgehog Signal Transduction Mechanism between <i>Drosophila</i> and Mammals. <i>Developmental Cell</i> , 2006, 10, 177-186.	7.0	204
119	Identification of pathways regulating cell size and cell-cycle progression by RNAi. <i>Nature</i> , 2006, 439, 1009-1013.	27.8	258
120	Human Receptors Patched and Smoothened Partially Transduce Hedgehog Signal When Expressed in <i>Drosophila</i> Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 28584-28595.	3.4	17