

# Eija S Jokitalo

## List of Publications by Year in descending order

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118  
papers

9,328  
citations

38742

50  
h-index

45317

90  
g-index

130  
all docs

130  
docs citations

130  
times ranked

14246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seipin localizes at endoplasmic-reticulum-mitochondria contact sites to control mitochondrial calcium import and metabolism in adipocytes. <i>Cell Reports</i> , 2022, 38, 110213.	6.4	29
2	Functional, metabolic and transcriptional maturation of human pancreatic islets derived from stem cells. <i>Nature Biotechnology</i> , 2022, 40, 1042-1055.	17.5	135
3	gACSON software for automated segmentation and morphology analyses of myelinated axons in 3D electron microscopy. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106802.	4.7	6
4	Microscopic characterization reveals the diversity of EVs secreted by GFP-HAS3 expressing MCF7 cells. <i>European Journal of Cell Biology</i> , 2022, 101, 151235.	3.6	2
5	A Hitchhiker's guide through the bioimage analysis software universe. <i>FEBS Letters</i> , 2022, 596, 2472-2485.	2.8	20
6	Assessment of the structural complexity of diffusion MRI voxels using 3D electron microscopy in the rat brain. <i>NeuroImage</i> , 2021, 225, 117529.	4.2	8
7	DeepACSON automated segmentation of white matter in 3D electron microscopy. <i>Communications Biology</i> , 2021, 4, 179.	4.4	30
8	DeepMIB: User-friendly and open-source software for training of deep learning network for biological image segmentation. <i>PLoS Computational Biology</i> , 2021, 17, e1008374.	3.2	42
9	Morphological Heterogeneity of the Endoplasmic Reticulum within Neurons and Its Implications in Neurodegeneration. <i>Cells</i> , 2021, 10, 970.	4.1	11
10	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
11	Myosin-X and talin modulate integrin activity at filopodia tips. <i>Cell Reports</i> , 2021, 36, 109716.	6.4	33
12	Seipin traps triacylglycerols to facilitate their nanoscale clustering in the endoplasmic reticulum membrane. <i>PLoS Biology</i> , 2021, 19, e3000998.	5.6	54
13	Cell Volume (3D) Correlative Microscopy Facilitated by Intracellular Fluorescent Nanodiamonds as Multi-Modal Probes. <i>Nanomaterials</i> , 2021, 11, 14.	4.1	9
14	Specific subdomain localization of ER resident proteins and membrane contact sites resolved by electron microscopy. <i>European Journal of Cell Biology</i> , 2021, 100, 151180.	3.6	11
15	Control of lysosomal-mediated cell death by the pH-dependent calcium channel RECS1. <i>Science Advances</i> , 2021, 7, eabe5469.	10.3	14
16	Code-Free Development and Deployment of Deep Segmentation Models for Digital Pathology. <i>Frontiers in Medicine</i> , 2021, 8, 816281.	2.6	4
17	B cells rapidly target antigen and surface-derived MHCII into peripheral degradative compartments. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	15
18	Computational Tools for Serial Block Electron Microscopy Reveal Plasmodesmata Distributions and Wall Environments. <i>Plant Physiology</i> , 2020, 184, 53-64.	4.8	12

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19	A Na,K-ATPase- and Fodrin-Actin Membrane Cytoskeleton Complex is Required for Endothelial Fenestra Biogenesis. <i>Cells</i> , 2020, 9, 1387.	4.1	5
20	Heterochromatin-Driven Nuclear Softening Protects the Genome against Mechanical Stress-Induced Damage. <i>Cell</i> , 2020, 181, 800-817.e22.	28.9	341
21	YIPF5 mutations cause neonatal diabetes and microcephaly through endoplasmic reticulum stress. <i>Journal of Clinical Investigation</i> , 2020, 130, 6338-6353.	8.2	58
22	Mitochondria Permeability Transition versus Necroptosis in Oxalate-Induced AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 1857-1869.	6.1	81
23	Selective Autophagy of Mitochondria on a Ubiquitin-Endoplasmic-Reticulum Platform. <i>Developmental Cell</i> , 2019, 50, 627-643.e5.	7.0	101
24	Multi-omics analysis identifies mitochondrial pathways associated with anxiety-related behavior. <i>PLoS Genetics</i> , 2019, 15, e1008358.	3.5	43
25	Seipin Facilitates Triglyceride Flow to Lipid Droplet and Counteracts Droplet Ripening via Endoplasmic Reticulum Contact. <i>Developmental Cell</i> , 2019, 50, 478-493.e9.	7.0	149
26	Sphingolipid biosynthesis modulates plasmodesmal ultrastructure and phloem unloading. <i>Nature Plants</i> , 2019, 5, 604-615.	9.3	65
27	REEP3 and REEP4 determine the tubular morphology of the endoplasmic reticulum during mitosis. <i>Molecular Biology of the Cell</i> , 2019, 30, 1377-1389.	2.1	37
28	Automated 3D Axonal Morphometry of White Matter. <i>Scientific Reports</i> , 2019, 9, 6084.	3.3	46
29	FAM92A1 is a BAR domain protein required for mitochondrial ultrastructure and function. <i>Journal of Cell Biology</i> , 2019, 218, 97-111.	5.2	15
30	GORAB scaffolds COPI at the trans-Golgi for efficient enzyme recycling and correct protein glycosylation. <i>Nature Communications</i> , 2019, 10, 127.	12.8	37
31	Cell-Nanoparticle Interactions at (Sub)-Nanometer Resolution Analyzed by Electron Microscopy and Correlative Coherent Anti-Stokes Raman Scattering. <i>Biotechnology Journal</i> , 2019, 14, 1800413.	3.5	5
32	MANF Is Required for the Postnatal Expansion and Maintenance of Pancreatic $\beta$ -Cell Mass in Mice. <i>Diabetes</i> , 2019, 68, 66-80.	0.6	50
33	Mitochondrial stress response triggered by defects in protein synthesis quality control. <i>Life Science Alliance</i> , 2019, 2, e201800219.	2.8	26
34	Secretome profiling of <i>Propionibacterium freudenreichii</i> reveals highly variable responses even among the closely related strains. <i>Microbial Biotechnology</i> , 2018, 11, 510-526.	4.2	15
35	GRASP55 Senses Glucose Deprivation through O-GlcNAcylation to Promote Autophagosome-Lysosome Fusion. <i>Developmental Cell</i> , 2018, 45, 245-261.e6.	7.0	108
36	Extracellular Lipids Accumulate in Human Carotid Arteries as Distinct Three-Dimensional Structures and Have Proinflammatory Properties. <i>American Journal of Pathology</i> , 2018, 188, 525-538.	3.8	56

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37	The microenvironment of proliferative diabetic retinopathy supports lymphatic neovascularization. <i>Journal of Pathology</i> , 2018, 245, 172-185.	4.5	16
38	Quantification of anisotropy and orientation in 3D electron microscopy and diffusion tensor imaging in injured rat brain. <i>NeuroImage</i> , 2018, 172, 404-414.	4.2	36
39	Secretion of Tau via an Unconventional Non-vesicular Mechanism. <i>Cell Reports</i> , 2018, 25, 2027-2035.e4.	6.4	117
40	OSBP-related protein-2 (ORP2): a novel Akt effector that controls cellular energy metabolism. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4041-4057.	5.4	27
41	Genetic Control of Myelin Plasticity after Chronic Psychosocial Stress. <i>ENeuro</i> , 2018, 5, ENEURO.0166-18.2018.	1.9	48
42	Strigolactone- and Karrikin-Independent SMXL Proteins Are Central Regulators of Phloem Formation. <i>Current Biology</i> , 2017, 27, 1241-1247.	3.9	117
43	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
44	FYCO1 and autophagy control the integrity of the haploid male germ cell-specific RNP granules. <i>Autophagy</i> , 2017, 13, 302-321.	9.1	19
45	Partially Uncleaved Alphavirus Replicase Forms Spherule Structures in the Presence and Absence of RNA Template. <i>Journal of Virology</i> , 2017, 91, .	3.4	34
46	De novo assembly of genomes from long sequence reads reveals uncharted territories of <i>Propionibacterium freudenreichii</i> . <i>BMC Genomics</i> , 2017, 18, 790.	2.8	16
47	Intrastrially Infused Exogenous CDNF Is Endocytosed and Retrogradely Transported to Substantia Nigra. <i>ENeuro</i> , 2017, 4, ENEURO.0128-16.2017.	1.9	32
48	Cytoskeletal Stability in the Auditory Organ <i>In Vivo</i> : RhoA Is Dispensable for Wound Healing but Essential for Hair Cell Development. <i>ENeuro</i> , 2017, 4, ENEURO.0149-17.2017.	1.9	9
49	Microscopy Image Browser: A Platform for Segmentation and Analysis of Multidimensional Datasets. <i>PLoS Biology</i> , 2016, 14, e1002340.	5.6	311
50	Seipin regulates ER lipid droplet contacts and cargo delivery. <i>EMBO Journal</i> , 2016, 35, 2699-2716.	7.8	258
51	Normal stroma suppresses cancer cell proliferation via mechanosensitive regulation of JMJD1a-mediated transcription. <i>Nature Communications</i> , 2016, 7, 12237.	12.8	105
52	NOGO-A/RTN4A and NOGO-B/RTN4B are simultaneously expressed in epithelial, fibroblast and neuronal cells and maintain ER morphology. <i>Scientific Reports</i> , 2016, 6, 35969.	3.3	28
53	RNA Replication and Membrane Modification Require the Same Functions of Alphavirus Nonstructural Proteins. <i>Journal of Virology</i> , 2016, 90, 1687-1692.	3.4	31
54	The tumor suppressor PTEN has a critical role in antiviral innate immunity. <i>Nature Immunology</i> , 2016, 17, 241-249.	14.5	138

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55	PML isoform II plays a critical role in nuclear lipid droplet formation. <i>Journal of Cell Biology</i> , 2016, 212, 29-38.	5.2	141
56	Ability of minus strands and modified plus strands to act as templates in Semliki Forest virus RNA replication. <i>Journal of General Virology</i> , 2016, 97, 1395-1407.	2.9	12
57	Membrane protrusion powers clathrin-independent endocytosis of interleukin-2 receptor. <i>EMBO Journal</i> , 2015, 34, 2147-2161.	7.8	39
58	Indications of lymphatic endothelial differentiation and endothelial progenitor cell activation in the pathology of proliferative diabetic retinopathy. <i>Acta Ophthalmologica</i> , 2015, 93, 512-523.	1.1	29
59	Ultrastructural relationship of the phagophore with surrounding organelles. <i>Autophagy</i> , 2015, 11, 439-451.	9.1	117
60	ER sheet-tubule balance is regulated by an array of actin filaments and microtubules. <i>Experimental Cell Research</i> , 2015, 337, 170-178.	2.6	18
61	Genome-wide RNAi screen for nuclear actin reveals a network of cofilin regulators. <i>Journal of Cell Science</i> , 2015, 128, 2388-2400.	2.0	35
62	Role of Endoplasmic Reticulum in the Formation of Phagophores/Autophagosomes. , 2015, , 57-68.		0
63	Correlative light and electron microscopy enables viral replication studies at the ultrastructural level. <i>Methods</i> , 2015, 90, 49-56.	3.8	25
64	The versatile electron microscope: An ultrastructural overview of autophagy. <i>Methods</i> , 2015, 75, 44-53.	3.8	33
65	Differences in the Aerobic Capacity of Flight Muscles between Butterfly Populations and Species with Dissimilar Flight Abilities. <i>PLoS ONE</i> , 2014, 9, e78069.	2.5	14
66	CHOLINE TRANSPORTER-LIKE1 is required for sieve plate development to mediate long-distance cell-to-cell communication. <i>Nature Communications</i> , 2014, 5, 4276.	12.8	69
67	How to Bury the Dead: Elimination of Apoptotic Hair Cells from the Hearing Organ of the Mouse. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 975-992.	1.8	58
68	ER sheet persistence is coupled to myosin 1c-regulated dynamic actin filament arrays. <i>Molecular Biology of the Cell</i> , 2014, 25, 1111-1126.	2.1	68
69	<i>Arabidopsis</i> NAC45/86 direct sieve element morphogenesis culminating in enucleation. <i>Science</i> , 2014, 345, 933-937.	12.6	173
70	<i>Rhinomonas nottbecki</i> n. sp. (Cryptomonadales) and Molecular Phylogeny of the Family Pyrenomonadaceae. <i>Journal of Eukaryotic Microbiology</i> , 2014, 61, 480-492.	1.7	16
71	Abnormal cerebellar development and ataxia in CARP VIII morphant zebrafish. <i>Human Molecular Genetics</i> , 2013, 22, 417-432.	2.9	39
72	Template RNA Length Determines the Size of Replication Complex Spherules for Semliki Forest Virus. <i>Journal of Virology</i> , 2013, 87, 9125-9134.	3.4	74

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73	Endosomal Actin Remodeling by Coronin-1A Controls Lipoprotein Uptake and Degradation in Macrophages. <i>Circulation Research</i> , 2012, 110, 450-455.	4.5	20
74	Progressive sheet-to-tubule transformation is a general mechanism for endoplasmic reticulum partitioning in dividing mammalian cells. <i>Molecular Biology of the Cell</i> , 2012, 23, 2424-2432.	2.1	149
75	Cdc42-dependent structural development of auditory supporting cells is required for wound healing at adulthood. <i>Scientific Reports</i> , 2012, 2, 978.	3.3	32
76	Insight into Cell-Entry Mechanisms of CPPs by Electron Microscopy. <i>Methods in Molecular Biology</i> , 2011, 683, 181-193.	0.9	5
77	Pinkbar is an epithelial-specific BAR domain protein that generates planar membrane structures. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 902-907.	8.2	84
78	Callose Biosynthesis Regulates Symplastic Trafficking during Root Development. <i>Developmental Cell</i> , 2011, 21, 1144-1155.	7.0	394
79	Characterization of YIPF3 and YIPF4, cis-Golgi Localizing Yip Domain Family Proteins. <i>Cell Structure and Function</i> , 2011, 36, 171-185.	1.1	26
80	Assembly of Alphavirus Replication Complexes from RNA and Protein Components in a Novel <i>trans</i> -Replication System in Mammalian Cells. <i>Journal of Virology</i> , 2011, 85, 4739-4751.	3.4	84
81	Characterization of the Intracellular Localization, Processing, and Secretion of Two Glial Cell Line-Derived Neurotrophic Factor Splice Isoforms. <i>Journal of Neuroscience</i> , 2010, 30, 11403-11413.	3.6	57
82	3D tomography reveals connections between the phagophore and endoplasmic reticulum. <i>Autophagy</i> , 2009, 5, 1180-1185.	9.1	595
83	Chapter 10 Monitoring Autophagy by Electron Microscopy in Mammalian Cells. <i>Methods in Enzymology</i> , 2009, 452, 143-164.	1.0	227
84	Protein Delivery with Transportans Is Mediated by Caveolae Rather Than Flotillin-Dependent Pathways. <i>Bioconjugate Chemistry</i> , 2009, 20, 877-887.	3.6	54
85	Cholesterol Substitution Increases the Structural Heterogeneity of Caveolae. <i>Journal of Biological Chemistry</i> , 2008, 283, 14610-14618.	3.4	41
86	Sensory neurons from N-syndecan-deficient mice are defective in survival. <i>NeuroReport</i> , 2008, 19, 1397-1400.	1.2	7
87	Missing-in-metastasis and IRSp53 deform PI(4,5)P2-rich membranes by an inverse BAR domain-like mechanism. <i>Journal of Cell Biology</i> , 2007, 176, 953-964.	5.2	349
88	Role of the Amphipathic Peptide of Semliki Forest Virus Replicase Protein nsP1 in Membrane Association and Virus Replication. <i>Journal of Virology</i> , 2007, 81, 872-883.	3.4	98
89	Prostatic Acid Phosphatase Is Not a Prostate Specific Target. <i>Cancer Research</i> , 2007, 67, 6549-6554.	0.9	83
90	Characterization and subcellular localization of human neutral class III $\alpha$ -mannosidase cytosolic enzymes/free oligosaccharides/glycosidehydrolase family 38/M2C1/N-glycosylation. <i>Glycobiology</i> , 2007, 17, 1084-1093.	2.5	18

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91	Intracellular localization and effects of individually expressed human parechovirus 1 non-structural proteins. <i>Journal of General Virology</i> , 2007, 88, 831-841.	2.9	24
92	Endoplasmic reticulum remains continuous and undergoes sheet-to-tubule transformation during cell division in mammalian cells. <i>Journal of Cell Biology</i> , 2007, 179, 895-909.	5.2	211
93	p37 Is a p97 Adaptor Required for Golgi and ER Biogenesis in Interphase and at the End of Mitosis. <i>Developmental Cell</i> , 2006, 11, 803-816.	7.0	95
94	COMPLEMENT ACTIVATION ASSOCIATES WITH SACCCULARCEREBRAL ARTERY ANEURYSM WALL DEGENERATION AND RUPTURE. <i>Neurosurgery</i> , 2006, 59, 1069-1077.	1.1	145
95	Effect of chronic nicotine treatment on localization of neuronal nicotinic acetylcholine receptors at cellular level. <i>Synapse</i> , 2006, 59, 383-393.	1.2	6
96	Defective insulin receptor activation and altered lipid rafts in Niemann-Pick type C disease hepatocytes. <i>Biochemical Journal</i> , 2005, 391, 465-472.	3.7	61
97	Up-regulation of $\alpha 2$ and $\alpha 7$ subunit containing nicotinic acetylcholine receptors in mouse striatum at cellular level. <i>European Journal of Neuroscience</i> , 2005, 21, 2681-2691.	2.6	40
98	Endoplasmic Reticulum Exit of a Secretory Glycoprotein in the Absence of Sec24p Family Proteins in Yeast. <i>Traffic</i> , 2005, 6, 562-574.	2.7	16
99	MLN64 Is Involved in Actin-mediated Dynamics of Late Endocytic Organelles. <i>Molecular Biology of the Cell</i> , 2005, 16, 3873-3886.	2.1	71
100	Active and specific recruitment of a soluble cargo protein for endoplasmic reticulum exit in the absence of functional COPII component Sec24p. <i>Journal of Cell Science</i> , 2004, 117, 1665-1673.	2.0	19
101	Secretion of Sterols and the NPC2 Protein from Primary Astrocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 48654-48662.	3.4	44
102	Regulation of sympathetic neuron and neuroblastoma cell death by XIAP and its association with proteasomes in neural cells. <i>Molecular and Cellular Neurosciences</i> , 2003, 22, 308-318.	2.2	26
103	Golgi apparatus partitioning during cell division (Review). <i>Molecular Membrane Biology</i> , 2003, 20, 117-127.	2.0	24
104	The localization and phosphorylation of p47 are important for Golgi disassembly-assembly during the cell cycle. <i>Journal of Cell Biology</i> , 2003, 161, 1067-1079.	5.2	96
105	Properly Folded Nonstructural Polyprotein Directs the Semliki Forest Virus Replication Complex to the Endosomal Compartment. <i>Journal of Virology</i> , 2003, 77, 1691-1702.	3.4	120
106	GDNF-deprived sympathetic neurons die via a novel nonmitochondrial pathway. <i>Journal of Cell Biology</i> , 2003, 163, 987-997.	5.2	65
107	Defective endocytic trafficking of NPC1 and NPC2 underlying infantile Niemann-Pick type C disease. <i>Human Molecular Genetics</i> , 2003, 12, 257-272.	2.9	86
108	Composition and Dynamics of Human Mitochondrial Nucleoids. <i>Molecular Biology of the Cell</i> , 2003, 14, 1583-1596.	2.1	316

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109	VCIP135, a novel essential factor for p97/p47-mediated membrane fusion, is required for Golgi and ER assembly in vivo. <i>Journal of Cell Biology</i> , 2002, 159, 855-866.	5.2	188
110	Golgi clusters and vesicles mediate mitotic inheritance independently of the endoplasmic reticulum. <i>Journal of Cell Biology</i> , 2001, 154, 317-330.	5.2	102
111	Matrix proteins can generate the higher order architecture of the Golgi apparatus. <i>Nature</i> , 2000, 407, 1022-1026.	27.8	245
112	The Role of the Tethering Proteins p115 and GM130 in Transport through the Golgi Apparatus In Vivo. <i>Molecular Biology of the Cell</i> , 2000, 11, 635-645.	2.1	165
113	The effect of Golgi depletion on exocytic transport. <i>Nature Cell Biology</i> , 2000, 2, 840-846.	10.3	66
114	Cdc2 Kinase Directly Phosphorylates the cis-Golgi Matrix Protein GM130 and Is Required for Golgi Fragmentation in Mitosis. <i>Cell</i> , 1998, 94, 783-793.	28.9	277
115	A Role for Giantin in Docking COPI Vesicles to Golgi Membranes. <i>Journal of Cell Biology</i> , 1998, 140, 1013-1021.	5.2	291
116	Folding of Active $\beta$ -Lactamase in the Yeast Cytoplasm before Translocation into the Endoplasmic Reticulum. <i>Molecular Biology of the Cell</i> , 1998, 9, 817-827.	2.1	30
117	Structural features of a polypeptide carrier promoting secretion of a $\beta$ -lactamase fusion protein in yeast. <i>Yeast</i> , 1995, 11, 1381-1391.	1.7	30
118	Selective retention of secretory proteins in the yeast endoplasmic reticulum by treatment of cells with a reducing agent. <i>Yeast</i> , 1994, 10, 355-370.	1.7	108