Uwe Wolfrum

List of Publications by Year
in descending order

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129 papers	9,434 citations	44069 48 h-index	46799 89 g-index
140 all docs	140 docs citations	140 times ranked	10980 citing authors

#	Article	IF	Citations
1	Rhodopsinâ€™s Carboxy-Terminal Cytoplasmic Tail Acts as a Membrane Receptor for Cytoplasmic Dynein by Binding to the Dynein Light Chain Tctex-1. Cell, 1999, 97, 877-887.	28.9	467
2	Protein quality control during aging involves recruitment of the macroautophagy pathway by BAG3. EMBO Journal, 2009, 28, 889-901.	7.8	465
3	Myosin VIIa, harmonin and cadherin 23, three Usher I gene products that cooperate to shape the sensory hair cell bundle. EMBO Journal, 2002, 21, 6689-6699.	7.8	392
4	International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Proteinâ€“Coupled Receptors. Pharmacological Reviews, 2015, 67, 338-367.	16.0	392
5	BAG3 mediates chaperoneâ€based aggresomeâ€targeting and selective autophagy of misfolded proteins. EMBO Reports, 2011, 12, 149-156.	4.5	316
6	Molecular basis of human Usher syndrome: Deciphering the meshes of the Usher protein network provides insights into the pathomechanisms of the Usher disease. Experimental Eye Research, 2006, 83, 97-119.	2.6	262
7	Interactions in the network of Usher syndrome type 1 proteins. Human Molecular Genetics, 2005, 14, 347-356.	2.9	231
8	A novel Usher protein network at the periciliary reloading point between molecular transport machineries in vertebrate photoreceptor cells. Human Molecular Genetics, 2008, 17, 71-86.	2.9	224
9	Usher syndrome: molecular links of pathogenesis, proteins and pathways. Human Molecular Genetics, 2006, 15, R262-R270.	2.9	219
10	An siRNA-based functional genomics screen for theÂidentification of regulators of ciliogenesis and ciliopathyÂgenes. Nature Cell Biology, 2015, 17, 1074-1087.	10.3	215
11	An organelle-specific protein landscape identifies novel diseases and molecular mechanisms. Nature Communications, 2016, 7, 11491.	12.8	207
12	A core cochlear phenotype in USH1 mouse mutants implicates fibrous links of the hair bundle in its cohesion, orientation and differential growth. Development (Cambridge), 2008, 135, 1427-1437.	2.5	193
13	Mutations in LCA5, encoding the ciliary protein lebercilin, cause Leber congenital amaurosis. Nature Genetics, 2007, 39, 889-895.	21.4	186
14	Myosin VIIa, the product of the Usher 1B syndrome gene, is concentrated in the connecting cilia of photoreceptor cells. Cytoskeleton, 1997, 37, 240-252.	4.4	171
15	MyRIP, a novel Rab effector, enables myosin VIIa recruitment to retinal melanosomes. EMBO Reports, 2002, 3, 463-470.	4.5	171
16	Scaffold protein harmonin (USH1C) provides molecular links between Usher syndrome type 1 and type 2. Human Molecular Genetics, 2005, 14, 3933-3943.	2.9	164
17	The DFNB31 gene product whirlin connects to the Usher protein network in the cochlea and retina by direct association with USH2A and VLGR1. Human Molecular Genetics, 2006, 15, 751-765.	2.9	162
18	Cadherin 23 is a component of the transient lateral links in the developing hair bundles of cochlear sensory cells. Developmental Biology, 2005, 280, 281-294.	2.0	151

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19	Rhodopsin transport in the membrane of the connecting cilium of mammalian photoreceptor cells. Cytoskeleton, 2000, 46, 95-107.	4.4	149
20	Interaction of glutamic-acid-rich proteins with the cGMP signalling pathway in rod photoreceptors. Nature, 1999, 400, 761-766.	27.8	146
21	Suppression and Replacement Gene Therapy for Autosomal Dominant Disease in a Murine Model of Dominant Retinitis Pigmentosa. Molecular Therapy, 2011, 19, 642-649.	8.2	134
22	Cilia - The sensory antennae in the eye. Progress in Retinal and Eye Research, 2017, 60, 144-180.	15.5	133
23	Intraflagellar transport molecules in ciliary and nonciliary cells of the retina. Journal of Cell Biology, 2010, 189, 171-186.	5.2	128
24	The retinitis pigmentosa protein RP2 links pericentriolar vesicle transport between the Golgi and the primary cilium. Human Molecular Genetics, 2010, 19, 1358-1367.	2.9	124
25	Myosin VIIa as a common component of cilia and microvilli. Cytoskeleton, 1998, 40, 261-271.	4.4	116
26	Septins 2, 7, and 9 and MAP4 co-localize along the axoneme in the primary cilium and control ciliary length. Journal of Cell Science, 2013, 126, 2583-94.	2.0	108
27	CiliaCarta: An integrated and validated compendium of ciliary genes. PLoS ONE, 2019, 14, e0216705.	2.5	104
28	Protein Networks and Complexes in Photoreceptor Cilia. , 2007, 43, 209-235.		101
29	Translational read-through of the RP2 Arg120stop mutation in patient iPSC-derived retinal pigment epithelium cells. Human Molecular Genetics, 2015, 24, 972-986.	2.9	97
30	CEP63 deficiency promotes p53-dependent microcephaly and reveals a role for the centrosome in meiotic recombination. Nature Communications, 2015, 6, 7676.	12.8	96
31	Effects of Presynaptic Mutations on a Postsynaptic Cacna1s Calcium Channel Colocalized with mGluR6 at Mouse Photoreceptor Ribbon Synapses. , 2009, 50, 505.		95
32	A comparative evaluation of NB30, NB54 and PTC124 in translational readâ€through efficacy for treatment of an USH1C nonsense mutation. EMBO Molecular Medicine, 2012, 4, 1186-1199.	6.9	95
33	Centrins in retinal photoreceptor cells: Regulators in the connecting cilium. Progress in Retinal and Eye Research, 2008, 27, 237-259.	15.5	91
34	Targeting Nonsense Mutations in Diseases with Translational Read-Through-Inducing Drugs (TRIDs). BioDrugs, 2016, 30, 49-74.	4.6	82
35	Photoreceptor expression of the Usher syndrome type 1 protein protocadherin 15 (USH1F) and its interaction with the scaffold protein harmonin (USH1C). Molecular Vision, 2005, 11, 347-55.	1.1	80
36	Differential Distribution of Harmonin Isoforms and Their Possible Role in Usher-1 Protein Complexes in Mammalian Photoreceptor Cells. , 2003, 44, 5006.		76

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37	Differential Expression and Interaction with the Visual G-protein Transducin of Centrin Isoforms in Mammalian Photoreceptor Cells. Journal of Biological Chemistry, 2004, 279, 51472-51481.	3.4	70
38	Expression of Centrin Isoforms in the Mammalian Retina. Experimental Cell Research, 1998, 242, 10-17.	2.6	69
39	Mutations in ARL2BP, Encoding ADP-Ribosylation-Factor-Like 2 Binding Protein, Cause Autosomal-Recessive Retinitis Pigmentosa. American Journal of Human Genetics, 2013, 93, 321-329.	6.2	67
40	Biallelic Variants in TTLL5, Encoding a Tubulin Glutamylase, Cause Retinal Dystrophy. American Journal of Human Genetics, 2014, 94, 760-769.	6.2	67
41	Calcium-Dependent Assembly of Centrin-G-Protein Complex in Photoreceptor Cells. Molecular and Cellular Biology, 2002, 22, 2194-2203.	2.3	64
42	A Homozygous Mutation in the<scp>TUB</scp>Gene Associated with Retinal Dystrophy and Obesity. Human Mutation, 2014, 35, 289-293.	2.5	63
43	Centrin in the photoreceptor cells of mammalian retinae. Cytoskeleton, 1995, 32, 55-64.	4.4	61
44	Intraflagellar transport proteins in ciliogenesis of photoreceptor cells. Biology of the Cell, 2011, 103, 449-466.	2.0	60
45	Multifunctional superparamagnetic MnO@SiO2 core/shell nanoparticles and their application for optical and magnetic resonance imaging. Journal of Materials Chemistry, 2012, 22, 9253.	6.7	59
46	Disruption of the retinitis pigmentosa 28 gene Fam161a in mice affects photoreceptor ciliary structure and leads to progressive retinal degeneration. Human Molecular Genetics, 2014, 23, 5197-5210.	2.9	59
47	PCARE and WASF3 regulate ciliary F-actin assembly that is required for the initiation of photoreceptor outer segment disk formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9922-9931.	7.1	58
48	Mutation ofPOC1Bin a Severe Syndromic Retinal Ciliopathy. Human Mutation, 2014, 35, 1153-1162.	2.5	57
49	KIAA0556 is a novel ciliary basal body component mutated in Joubert syndrome. Genome Biology, 2015, 16, 293.	8.8	56
50	Actin filaments: the main components of the scolopale in insect sensilla. Cell and Tissue Research, 1990, 261, 85-96.	2.9	55
51	Different roles for KIF17 and kinesin II in photoreceptor development and maintenance. Developmental Dynamics, 2009, 238, 2211-2222.	1.8	53
52	Usherin defects lead to early-onset retinal dysfunction in zebrafish. Experimental Eye Research, 2018, 173, 148-159.	2.6	53
53	Association of Whirlin with Ca_v1.3 (Î±_{1D}) Channels in Photoreceptors, Defining a Novel Member of the Usher Protein Network. , 2010, 51, 2338.		52
54	TALPID3 controls centrosome and cell polarity and the human ortholog KIAA0586 is mutated in Joubert syndrome (JBTS23). ELife, 2015, 4, .	6.0	51

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55	Beneficial Read-Through of aUSH1CNonsense Mutation by Designed Aminoglycoside NB30 in the Retina. , 2010, 51, 6671.		50
56	The retinitis pigmentosa 28 protein FAM161A is a novel ciliary protein involved in intermolecular protein interaction and microtubule association. Human Molecular Genetics, 2012, 21, 4573-4586.	2.9	50
57	TOPORS, implicated in retinal degeneration, is a cilia-centrosomal protein. Human Molecular Genetics, 2011, 20, 975-987.	2.9	49
58	Centrin- and ?-actinin-like immunoreactivity in the ciliary rootlets of insect sensilla. Cell and Tissue Research, 1991, 266, 231-238.	2.9	48
59	Homozygous disruption of PDZD7 by reciprocal translocation in a consanguineous family: a new member of the Usher syndrome protein interactome causing congenital hearing impairment. Human Molecular Genetics, 2009, 18, 655-666.	2.9	48
60	The giant spectrin Î²V couples the molecular motors to phototransduction and Usher syndrome type I proteins along their trafficking route. Human Molecular Genetics, 2013, 22, 3773-3788.	2.9	48
61	Novel Insights Into the Phenotypical Spectrum of KIF11-Associated Retinopathy, Including a New Form of Retinal Ciliopathy. , 2017, 58, 3950.		48
62	Usher syndrome and Leber congenital amaurosis are molecularly linked via a novel isoform of the centrosomal ninein-like protein. Human Molecular Genetics, 2009, 18, 51-64.	2.9	43
63	Direct interaction of the Usher syndrome 1G protein SANS and myomegalin in the retina. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1883-1892.	4.1	43
64	Cytoskeletal elements in arthorpod sensilla and mammalian photoreceptors*. Biology of the Cell, 1992, 76, 373-381.	2.0	42
65	Gene Repair of an Usher Syndrome Causing Mutation by Zinc-Finger Nuclease Mediated Homologous Recombination. , 2012, 53, 4140.		41
66	Characterization of the ternary Usher syndrome SANS/ush2a/whirlin protein complex. Human Molecular Genetics, 2017, 26, ddx027.	2.9	41
67	Centrins, gatekeepers for the light-dependent translocation of transducin through the photoreceptor cell connecting cilium. Vision Research, 2006, 46, 4502-4509.	1.4	40
68	Germline deletion of Cetn1 causes infertility in male mice. Journal of Cell Science, 2013, 126, 3204-13.	2.0	39
69	Light-dependent translocation of arrestin in rod photoreceptors is signaled through a phospholipase C cascade and requires ATP. Cellular Signalling, 2010, 22, 447-456.	3.6	37
70	PEX6 is Expressed in Photoreceptor Cilia and Mutated in Deafblindness with Enamel Dysplasia and Microcephaly. Human Mutation, 2016, 37, 170-174.	2.5	36
71	Usher Syndrome Protein Network Functions in the Retina and their Relation to Other Retinal Ciliopathies. Advances in Experimental Medicine and Biology, 2014, 801, 527-533.	1.6	35
72	The translocation of signaling molecules in dark adapting mammalian rod photoreceptor cells is dependent on the cytoskeleton. Cytoskeleton, 2008, 65, 785-800.	4.4	34

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73	SANS (USH1G) expression in developing and mature mammalian retina. Vision Research, 2008, 48, 400-412.	1.4	34
74	Centrins, A Novel Group Of Cat2,2+-Binding Proteins In Vertebrate Photoreceptor Cells. Advances in Experimental Medicine and Biology, 2002, 514, 155-178.	1.6	34
75	C21orf2is mutated in recessive early-onset retinal dystrophy with macular staphyloma and encodes a protein that localises to the photoreceptor primary cilium. British Journal of Ophthalmology, 2015, 99, 1725-1731.	3.9	32
76	A novel function of Huntingtin in the cilium and retinal ciliopathy in Huntington's disease mice. Neurobiology of Disease, 2015, 80, 15-28.	4.4	31
77	Light-dependent phosphorylation of Bardetâ€“Biedl syndrome 5 in photoreceptor cells modulates its interaction with arrestin1. Cellular and Molecular Life Sciences, 2013, 70, 4603-4616.	5.4	29
78	Light-dependent CK2-mediated phosphorylation of centrins regulates complex formation with visual G-protein. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1248-1260.	4.1	28
79	Phosphorylation of the Usher syndrome 1G protein SANS controls Magi2-mediated endocytosis. Human Molecular Genetics, 2014, 23, 3923-3942.	2.9	28
80	Molecular Analysis of the Supramolecular Usher Protein Complex in the Retina. , 2006, 572, 349-353.		27
81	Immunoelectron Microscopy of Vesicle Transport to the Primary Cilium of Photoreceptor Cells. Methods in Cell Biology, 2009, 94, 259-272.	1.1	26
82	Pgc-1Î±andNr4a1Are Target Genes of Circadian Melatonin and Dopamine Release in Murine Retina. , 2015, 56, 6084.		26
83	Photoreceptor vitality in organotypic cultures of mature vertebrate retinas validated by light-dependent molecular movements. Vision Research, 2006, 46, 4464-4471.	1.4	25
84	Enhanced autophagic-lysosomal activity and increased BAG3-mediated selective macroautophagy as adaptive response of neuronal cells to chronic oxidative stress. Redox Biology, 2019, 24, 101181.	9.0	25
85	Expression of cadherin 23 isoforms is not conserved: implications for a mouse model of Usher syndrome type 1D. Molecular Vision, 2009, 15, 1843-57.	1.1	25
86	Optimized recombinant dense bodies of human cytomegalovirus efficiently prime virus specific lymphocytes and neutralizing antibodies without the addition of adjuvant. Vaccine, 2010, 28, 6191-6198.	3.8	23
87	Peripherin-2 couples rhodopsin to the CNG channel in outer segments of rod photoreceptors. Human Molecular Genetics, 2014, 23, 5989-5997.	2.9	23
88	Translational read-through as an alternative approach for ocular gene therapy of retinal dystrophies caused by in-frame nonsense mutations. Visual Neuroscience, 2014, 31, 309-316.	1.0	22
89	Efficient gene delivery to photoreceptors using AAV2/rh10 and rescue of the Rhoâ^'/â^' mouse. Molecular Therapy - Methods and Clinical Development, 2015, 2, 15016.	4.1	22
90	Tropomyosin is co-localized with the actin filaments of the scolopale in insect sensilla. Cell and Tissue Research, 1991, 265, 11-17.	2.9	20

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91	Polyglutamine toxicity induces rod photoreceptor division, morphological transformation or death in Spinocerebellar ataxia 7 mouse retina. Neurobiology of Disease, 2010, 40, 311-324.	4.4	20
92	Adhesion G protein-coupled receptor VLGR1/ADGRV1 regulates cell spreading and migration by mechanosensing at focal adhesions. IScience, 2021, 24, 102283.	4.1	20
93	Roles for ELMOD2 and Rootletin in ciliogenesis. Molecular Biology of the Cell, 2021, 32, 800-822.	2.1	20
94	Identification of Novel Molecular Components of the Photoreceptor Connecting Cilium by Immunoscreens. Experimental Eye Research, 2001, 73, 837-849.	2.6	19
95	Adhesion GPCR-Related Protein Networks. Handbook of Experimental Pharmacology, 2016, 234, 147-178.	1.8	19
96	Impact of the Usher syndrome on olfaction. Human Molecular Genetics, 2016, 25, 524-533.	2.9	19
97	The Abundant Tegument Protein pUL25 of Human Cytomegalovirus Prevents Proteasomal Degradation of pUL26 and Supports Its Suppression of ISGylation. Journal of Virology, 2018, 92, .	3.4	19
98	Vezatin, a ubiquitous protein of adherens cellâ€“cell junctions, is exclusively expressed in germ cells in mouse testis. Reproduction, 2007, 133, 563-574.	2.6	18
99	The mitotic spindle protein SPAG5/Astrin connects to the Usher protein network postmitotically. Cilia, 2012, 1, 2.	1.8	18
100	Deep Sequencing of the Human Retinae Reveals the Expression of Odorant Receptors. Frontiers in Cellular Neuroscience, 2017, 11, 03.	3.7	18
101	Autophagy interferes with human cytomegalovirus genome replication, morphogenesis, and progeny release. Autophagy, 2021, 17, 779-795.	9.1	18
102	A new mouse model for retinal degeneration due to Fam161a deficiency. Scientific Reports, 2021, 11, 2030.	3.3	17
103	Exogenous introduction of an immunodominant peptide from the non-structural IE1 protein of human cytomegalovirus into the MHC class I presentation pathway by recombinant dense bodies. Journal of General Virology, 2008, 89, 369-379.	2.9	16
104	The expanding functional roles and signaling mechanisms of adhesion G proteinâ€“coupled receptors. Annals of the New York Academy of Sciences, 2019, 1456, 5-25.	3.8	16
105	SANS (USH1G) regulates pre-mRNA splicing by mediating the intra-nuclear transfer of tri-snRNP complexes. Nucleic Acids Research, 2021, 49, 5845-5866.	14.5	16
106	The Role of Cadherins in Ca2+-Mediated Cell Adhesion and Inherited Photoreceptor Degeneration. Advances in Experimental Medicine and Biology, 2002, 514, 399-410.	1.6	15
107	Insights into functional aspects of centrins from the structure of N-terminally extended mouse centrin 1. Vision Research, 2006, 46, 4568-4574.	1.4	14
108	Early disruption of photoreceptor cell architecture and loss of vision in a humanized pig model of usher syndromes. EMBO Molecular Medicine, 2022, 14, e14817.	6.9	14

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109	The Cellular Function of the Usher Gene Product Myosin VIIa is Specified by Its Ligands. Advances in Experimental Medicine and Biology, 2003, 533, 133-142.	1.6	13
110	Isolation and culturing of primary mouse astrocytes for the analysis of focal adhesion dynamics. STAR Protocols, 2021, 2, 100954.	1.2	13
111	Successful Subretinal Delivery and Monitoring of MicroBeads in Mice. PLoS ONE, 2013, 8, e55173.	2.5	11
112	Adenovirus E1A/E1B Transformed Amniotic Fluid Cells Support Human Cytomegalovirus Replication. Viruses, 2016, 8, 37.	3.3	11
113	Affinity proteomics identifies novel functional modules related to adhesion GPCRs. Annals of the New York Academy of Sciences, 2019, 1456, 144-167.	3.8	11
114	Occurrence of Retinal Ganglion Cell Loss via Autophagy and Apoptotic Pathways in an Autoimmune Glaucoma Model. Current Eye Research, 2020, 45, 1124-1135.	1.5	11
115	Deletion of myosin VI causes slow retinal optic neuropathy and age-related macular degeneration (AMD)-relevant retinal phenotype. Cellular and Molecular Life Sciences, 2015, 72, 3953-3969.	5.4	10
116	AAV-Mediated Clarin-1 Expression in the Mouse Retina: Implications for USH3A Gene Therapy. PLoS ONE, 2016, 11, e0148874.	2.5	10
117	Peripherin-2 differentially interacts with cone opsins in outer segments of cone photoreceptors. Human Molecular Genetics, 2016, 25, ddw103.	2.9	10
118	PRCD is Concentrated at the Base of Photoreceptor Outer Segments and is Involved in Outer Segment Disc Formation. Human Molecular Genetics, 2019, 28, 4078-4088.	2.9	10
119	Phylogenetic profiling and cellular analyses of ARL16 reveal roles in traffic of IFT140 and INPP5E. Molecular Biology of the Cell, 2022, 33, mbcE21100509T.	2.1	10
120	SANS (USH1G) Molecularly Links the Human Usher Syndrome Protein Network to the Intraflagellar Transport Module by Direct Binding to IFT-B Proteins. Frontiers in Cell and Developmental Biology, 2019, 7, 216.	3.7	8
121	The Leber Congenital Amaurosis Protein AIPL1 and EB Proteins Co-Localize at the Photoreceptor Cilium. PLoS ONE, 2015, 10, e0121440.	2.5	8
122	Affinity Proteomics Identifies Interaction Partners and Defines Novel Insights into the Function of the Adhesion GPCR VLGR1/ADGRV1. Molecules, 2022, 27, 3108.	3.8	8
123	The GTP- and Phospholipid-Binding Protein TTD14 Regulates Trafficking of the TRPL Ion Channel in Drosophila Photoreceptor Cells. PLoS Genetics, 2015, 11, e1005578.	3.5	7
124	Tackling the Limitations of Copolymeric Small Interfering RNA Delivery Agents by a Combined Experimentalâ€“Computational Approach. Biomacromolecules, 2019, 20, 4389-4406.	5.4	7
125	Crystallization and preliminary X-ray studies of mouse centrin1. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 510-513.	0.7	5
126	The ARF GAPs ELMOD1 and ELMOD3 act at the Golgi and cilia to regulate ciliogenesis and ciliary protein traffic. Molecular Biology of the Cell, 2022, 33, mbcE21090443.	2.1	5

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127	Photoreceptor cells display a daily rhythm in the orphan receptor EsrrÎ². Molecular Vision, 2015, 21, 173-84.	1.1	3
128	Rhodopsin transport in the membrane of the connecting cilium of mammalian photoreceptor cells. , 2000, 46, 95.		1
129	A FRAP-Based Method for Monitoring Molecular Transport in Ciliary Photoreceptor Cells In Vivo. Methods in Molecular Biology, 2016, 1454, 97-106.	0.9	0