Karl-Wilhelm Koch

List of Publications by Year
in descending order

160	5,765	76196	88477
papers	citations	40 h-index	70 g-index

164	164	164	2522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Properties of Human Guanylate Cyclase-Activating Protein 3 (GCAP3) and Its Possible Association with Retinitis Pigmentosa. International Journal of Molecular Sciences, 2022, 23, 3240.	1.8	3
2	The Transition of Photoreceptor Guanylate Cyclase Type 1 to the Active State. International Journal of Molecular Sciences, 2022, 23, 4030.	1.8	1
3	Direct Interaction of Avian Cryptochrome 4 with a Cone Specific G-Protein. Cells, 2022, 11, 2043.	1.8	11
4	Bringing the Ca ²⁺ sensitivity of myristoylated recoverin into the physiological range. Open Biology, 2021, 11, 200346.	1.5	4
5	An Assessment of GUCA1C Variants in Primary Congenital Glaucoma. Genes, 2021, 12, 359.	1.0	2
6	Interaction of G protein-coupled receptor kinases and recoverin isoforms is determined by localization in zebrafish photoreceptors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118946.	1.9	5
7	Farnesylation of Zebrafish G-Protein-Coupled Receptor Kinase Using Bio-orthogonal Labeling. ACS Chemical Neuroscience, 2021, 12, 1824-1832.	1.7	0
8	First 3D-Structural Data of Full-Length Guanylyl Cyclase 1 in Rod-Outer-Segment Preparations of Bovine Retina by Cross-Linking/Mass Spectrometry. Journal of Molecular Biology, 2021, 433, 166947.	2.0	3
9	The secrets of cryptochromes: photoreceptors, clock proteins, and magnetic sensors. Neuroforum, 2021, 27, 151-157.	0.2	4
10	Magnetic sensitivity of cryptochrome 4 from a migratory songbird. Nature, 2021, 594, 535-540.	13.7	171
11	Where vision begins. Pflugers Archiv European Journal of Physiology, 2021, 473, 1333-1337.	1.3	5
12	A hybrid stochastic/deterministic model of single photon response and light adaptation in mouse rods. Computational and Structural Biotechnology Journal, 2021, 19, 3720-3734.	1.9	9
13	Molecular properties of human guanylate cyclaseâ€“activating protein 2 (GCAP2) and its retinal dystrophyâ€“associated variant G157R. Journal of Biological Chemistry, 2021, 296, 100619.	1.6	8
14	NMR and EPR-DEER Structure of a Dimeric Guanylate Cyclase Activator Protein-5 from Zebrafish Photoreceptors. Biochemistry, 2021, 60, 3058-3070.	1.2	3
15	Label-free Quantification of Direct Protein-protein Interactions with Backscattering Interferometry. Bio-protocol, 2021, 11, e4256.	0.2	1
16	Protein-protein interaction of the putative magnetoreceptor cryptochrome 4 expressed in the avian retina. Scientific Reports, 2020, 10, 7364.	1.6	38
17	Constitutive Activation of Guanylate Cyclase by the G86R GCAP1 Variant Is Due to â€œLockingâ€•Cation-Ï€ Interactions that Impair the Activator-to-Inhibitor Structural Transition. International Journal of Molecular Sciences, 2020, 21, 752.	1.8	6
18	Neuronal Calcium Sensor GCAP1 Encoded by GUCA1A Exhibits Heterogeneous Functional Properties in Two Cases of Retinitis Pigmentosa. ACS Chemical Neuroscience, 2020, 11, 1458-1470.	1.7	8

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19	Quantitative Determination of Ca2+-binding to Ca2+-sensor Proteins by Isothermal Titration Calorimetry. Bio-protocol, 2020, 10, e3580.	0.2	3
20	Molecular Recognition of Rhodopsin Kinase GRK1 and Recoverin Is Tuned by Switching Intra- and Intermolecular Electrostatic Interactions. Biochemistry, 2019, 58, 4374-4385.	1.2	8
21	Incorporating phototransduction proteins in zebrafish green cone with pressure-polished patch pipettes. Biophysical Chemistry, 2019, 253, 106230.	1.5	4
22	Mapping Calcium-Sensitive Regions in GCAPs by Site-Specific Fluorescence Labelling. Methods in Molecular Biology, 2019, 1929, 583-594.	0.4	0
23	Editorial: Neuronal Calcium Sensors in Health and Disease. Frontiers in Molecular Neuroscience, 2019, 12, 278.	1.4	4
24	A G86R mutation in the calcium-sensor protein GCAP1 alters regulation of retinal guanylyl cyclase and causes dominant cone-rod degeneration. Journal of Biological Chemistry, 2019, 294, 3476-3488.	1.6	29
25	Photoreceptor calcium sensor proteins in detergent-resistant membrane rafts are regulated via binding to caveolin-1. Cell Calcium, 2018, 73, 55-69.	1.1	17
26	Double-Cone Localization and Seasonal Expression Pattern Suggest a Role in Magnetoreception for European Robin Cryptochrome 4. Current Biology, 2018, 28, 211-223.e4.	1.8	134
27	Genotype-functional-phenotype correlations in photoreceptor guanylate cyclase (GC-E) encoded by GUCY2D. Progress in Retinal and Eye Research, 2018, 63, 69-91.	7.3	66
28	Zebrafish Recoverin Isoforms Display Differences in Calcium Switch Mechanisms. Frontiers in Molecular Neuroscience, 2018, 11, 355.	1.4	9
29	Photoreceptor Guanylate Cyclase (GUCY2D) Mutations Cause Retinal Dystrophies by Severe Malfunction of Ca2+-Dependent Cyclic GMP Synthesis. Frontiers in Molecular Neuroscience, 2018, 11, 348.	1.4	19
30	Binding of a Myristoylated Protein to the Lipid Membrane Influenced by Interactions with the Polar Head Group Region. Langmuir, 2018, 34, 14022-14032.	1.6	14
31	Impact of the protein myristoylation on the structure of a model cell membrane in a protein bound state. Bioelectrochemistry, 2018, 124, 13-21.	2.4	13
32	Control of the Nucleotide Cycle in Photoreceptor Cell Extracts by Retinal Degeneration Protein 3. Frontiers in Molecular Neuroscience, 2018, 11, 52.	1.4	12
33	Guanylate Cyclase. , 2018, , 2294-2301.		0
34	GCAP (Guanylate Cyclaseâ€“Activating Protein). , 2018, , 2041-2045.		0
35	Dysfunction of cGMP signalling in photoreceptors by a macular dystrophy-related mutation in the calcium sensor GCAP1. Human Molecular Genetics, 2017, 26, ddw374.	1.4	34
36	Bifunctional Diaminoterephthalate Fluorescent Dye as Probe for Crossâ€Linking Proteins. Chemistry - A European Journal, 2017, 23, 6535-6543.	1.7	12

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37	Frontispiece: Bifunctional Diaminoterephthalate Fluorescent Dye as Probe for Crossâ€Linking Proteins. Chemistry - A European Journal, 2017, 23, .	1.7	0
38	Label-free quantification of calcium-sensor targeting to photoreceptor guanylate cyclase and rhodopsin kinase by backscattering interferometry. Scientific Reports, 2017, 7, 45515.	1.6	18
39	CaF₂nanoparticles as surface carriers of GCAP1, a calcium sensor protein involved in retinal dystrophies. Nanoscale, 2017, 9, 11773-11784.	2.8	13
40	Structural Characterization of Ferrous Ion Binding to Retinal Guanylate Cyclase Activator Protein 5 from Zebrafish Photoreceptors. Biochemistry, 2017, 56, 6652-6661.	1.2	13
41	Fingerprints of Calcium-Binding Protein Conformational Dynamics Monitored by Surface Plasmon Resonance. ACS Chemical Biology, 2016, 11, 2390-2397.	1.6	17
42	Mapping Calcium-Sensitive Regions in the Neuronal Calcium Sensor GCAP2 by Site-Specific Fluorescence Labeling. Biochemistry, 2016, 55, 2567-2577.	1.2	10
43	Zinc Is Involved in Depression by Modulating G Protein-Coupled Receptor Heterodimerization. Molecular Neurobiology, 2016, 53, 2003-2015.	1.9	21
44	Guanylate Cyclase. , 2016, , 1-7.		0
45	GCAP (Guanylate Cyclaseâ€“Activating Protein). , 2016, , 1-5.		0
46	Retina specific GCAPs in zebrafish acquire functional selectivity in Ca2+-sensing by myristoylation and Mg2+-binding. Scientific Reports, 2015, 5, 11228.	1.6	15
47	Protein and Signaling Networks in Vertebrate Photoreceptor Cells. Frontiers in Molecular Neuroscience, 2015, 8, 67.	1.4	98
48	Regulatory function of the C-terminal segment of guanylate cyclase-activating protein 2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1325-1337.	1.1	11
49	Two retinal dystrophy-associated missense mutations inGUCA1Awith distinct molecular properties result in a similar aberrant regulation of the retinal guanylate cyclase. Human Molecular Genetics, 2015, 24, 6653-6666.	1.4	36
50	Transient Complexes between Dark Rhodopsin and Transducin: Circumstantial Evidence or Physiological Necessity?. Biophysical Journal, 2015, 108, 775-777.	0.2	6
51	Differential Nanosecond Protein Dynamics in Homologous Calcium Sensors. ACS Chemical Biology, 2015, 10, 2344-2352.	1.6	10
52	Structural effects of Mg2+ on the regulatory states of three neuronal calcium sensors operating in vertebrate phototransduction. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2055-2065.	1.9	54
53	Dysfunction of outer segment guanylate cyclase caused by retinal disease related mutations. Frontiers in Molecular Neuroscience, 2014, 7, 4.	1.4	11
54	Impact of cone dystrophy-related mutations in GCAP1 on a kinetic model of phototransduction. Cellular and Molecular Life Sciences, 2014, 71, 3829-3840.	2.4	26

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55	Conformational Changes in Calciumâ€Sensor Proteins under Molecular Crowding Conditions. Chemistry - A European Journal, 2014, 20, 6756-6762.	1.7	35
56	A comprehensive model of the phototransduction cascade in mouse rod cells. Molecular BioSystems, 2014, 10, 1481-1489.	2.9	33
57	The interaction network of rhodopsin involving the heterotrimeric Gâ€protein transducin and the monomeric <scp>GTP</scp>ase Rac1 is determined by distinct binding processes. FEBS Journal, 2014, 281, 5175-5185.	2.2	3
58	Exploring the rate-limiting steps in visual phototransduction recovery by bottom-up kinetic modeling. Cell Communication and Signaling, 2013, 11, 36.	2.7	20
59	The Dimerization Domain in Outer Segment Guanylate Cyclase Is a Ca²⁺-Sensitive Control Switch Module. Biochemistry, 2013, 52, 5065-5074.	1.2	45
60	The guanylate cyclase signaling system in zebrafish photoreceptors. FEBS Letters, 2013, 587, 2055-2059.	1.3	2
61	Real-Time Modulation of Zebrafish Cone Phototransduction by Whole-Cell Delivery of zGCAP3 and of its Monoclonal Antibody. Biophysical Journal, 2013, 104, 103a.	0.2	1
62	Divalent cations modulate membrane binding and pore formation of a potent antibiotic peptide analog of alamethicin. Cell Calcium, 2013, 53, 180-186.	1.1	36
63	A Calcium-Relay Mechanism in Vertebrate Phototransduction. ACS Chemical Neuroscience, 2013, 4, 909-917.	1.7	85
64	Zebrafish Guanylate Cyclase Type 3 Signaling in Cone Photoreceptors. PLoS ONE, 2013, 8, e69656.	1.1	14
65	Nucleotidyl Cyclase Activity of Particulate Guanylyl Cyclase A: Comparison with Particulate Guanylyl Cyclases E and F, Soluble Guanylyl Cyclase and Bacterial Adenylyl Cyclases Cyaa and Edema Factor. PLoS ONE, 2013, 8, e70223.	1.1	34
66	Dynamics of Conformational Ca²⁺-Switches in Signaling Networks Detected by a Planar Plasmonic Device. Analytical Chemistry, 2012, 84, 2982-2989.	3.2	44
67	Probing the Ca²⁺ Switch of the Neuronal Ca²⁺ Sensor GCAP2 by Time-Resolved Fluorescence Spectroscopy. ACS Chemical Biology, 2012, 7, 1006-1014.	1.6	10
68	Turning On Fluorescence with Thiols â€“ Synthetic and Computational Studies on Diaminoterephthalates and Monitoring the Switch of the Ca²⁺ Sensor Recoverin. European Journal of Organic Chemistry, 2012, 2012, 5712-5722.	1.2	21
69	Biophysical investigation of retinal calcium sensor function. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1228-1233.	1.1	7
70	Synergetic Effect of Recoverin and Calmodulin on Regulation of Rhodopsin Kinase. Frontiers in Molecular Neuroscience, 2012, 5, 28.	1.4	26
71	Antithetical modes of and the Ca2+ sensors targeting in ANF-RGC and ROS-GC1 membrane guanylate cyclases. Frontiers in Molecular Neuroscience, 2012, 5, 44.	1.4	10
72	The Neuronal Functions of EF-Hand Ca2+-Binding Proteins. Frontiers in Molecular Neuroscience, 2012, 5, 92.	1.4	11

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73	Diaminoterephthalate Turnâ€On Fluorescence Probes for Thiolsâ€"Tagging of Recoverin and Tracking of its Conformational Change. ChemBioChem, 2012, 13, 993-998.	1.3	23
74	Operation profile of zebrafish guanylate cyclaseâ€activating protein 3. Journal of Neurochemistry, 2012, 121, 54-65.	2.1	16
75	Guanylate Cyclase. , 2012, , 832-838.		0
76	GCAP (Guanylate Cyclaseâ€"Activating Protein). , 2012, , 769-773.		0
77	Involvement of the recoverin C-terminal segment in recognition of the target enzyme rhodopsin kinase. Biochemical Journal, 2011, 435, 441-450.	1.7	56
78	A dynamic scaffolding mechanism for rhodopsin and transducin interaction in vertebrate vision. Biochemical Journal, 2011, 440, 263-271.	1.7	42
79	Differential Calcium Signaling by Cone Specific Guanylate Cyclase-Activating Proteins from the Zebrafish Retina. PLoS ONE, 2011, 6, e23117.	1.1	36
80	Impact of Strong and Weak Lipid-Protein Interactions on the Structure of a Lipid Bilayer on a Gold Electrode Surface. ChemPhysChem, 2011, 12, 1066-1079.	1.0	18
81	Calcium binding, structural stability and guanylate cyclase activation in GCAP1 variants associated with human cone dystrophy. Cellular and Molecular Life Sciences, 2010, 67, 973-984.	2.4	67
82	On-chip photoactivation of heterologously expressed rhodopsin allows kinetic analysis of G-protein signaling by surface plasmon resonance spectroscopy. Analytical and Bioanalytical Chemistry, 2010, 397, 2967-2976.	1.9	10
83	Diversity of sensory guanylate cyclases in teleost fishes. Molecular and Cellular Biochemistry, 2010, 334, 207-214.	1.4	20
84	Ca2+-modulated vision-linked ROS-GC guanylate cyclase transduction machinery. Molecular and Cellular Biochemistry, 2010, 334, 105-115.	1.4	55
85	Dynamic cellular translocation of caldendrin is facilitated by the Ca²⁺â€myristoyl switch of recoverin. Journal of Neurochemistry, 2010, 113, 1150-1162.	2.1	16
86	Systems biochemistry approaches to vertebrate phototransduction: towards a molecular understanding of disease. Biochemical Society Transactions, 2010, 38, 1275-1280.	1.6	9
87	Involvement of the calcium sensor GCAP1 in hereditary cone dystrophies. Biological Chemistry, 2010, 391, 631-7.	1.2	40
88	Application of Surface Plasmon Resonance Spectroscopy to Study G-Protein Coupled Receptor Signalling. Methods in Molecular Biology, 2010, 627, 249-260.	0.4	14
89	Quantitative detection of conformational transitions in a calcium sensor protein by surface plasmon resonance. Chemical Communications, 2010, 46, 7316.	2.2	33
90	Expression profiles of three novel sensory guanylate cyclases and guanylate cyclase-activating proteins in the zebrafish retina. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1110-1114.	1.9	35

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91	Mutations in theGUCA1Agene involved in hereditary cone dystrophies impair calcium-mediated regulation of guanylate cyclase. Human Mutation, 2009, 30, E782-E796.	1.1	83
92	The cone-specific calcium sensor guanylate cyclase activating protein 4 from the zebrafish retina. Journal of Biological Inorganic Chemistry, 2009, 14, 89-99.	1.1	13
93	Mechanism of rhodopsin kinase regulation by recoverin. Journal of Neurochemistry, 2009, 110, 72-79.	2.1	50
94	Monitoring of small conformational changes by high-precision measurements of hydrodynamic radius with 2-focus fluorescence correlation spectroscopy (2fFCS). , 2007, , .		0
95	Calcium-dependent conformational changes in guanylate cyclase-activating protein 2 monitored by cysteine accessibility. Biochemical and Biophysical Research Communications, 2007, 356, 687-692.	1.0	20
96	Membrane binding of the neuronal calcium sensor recoverin â€“ modulatory role of the charged carboxy-terminus. BMC Biochemistry, 2007, 8, 24.	4.4	14
97	Expression level and activity profile of membrane bound guanylate cyclase type 2 in rod outer segments. Journal of Neurochemistry, 2007, 103, 1439-1446.	2.1	42
98	Surface Plasmon Resonance Study of G Protein/Receptor Coupling in a Lipid Bilayer-Free System. Analytical Chemistry, 2006, 78, 1228-1234.	3.2	40
99	Surface Plasmon Resonance. , 2006, , 1832-1835.		1
100	Ca2+-dependent conformational changes in the neuronal Ca2+-sensor recoverin probed by the fluorescent dye Alexa647. Proteins: Structure, Function and Bioinformatics, 2006, 66, 492-499.	1.5	14
101	Tuning of a Neuronal Calcium Sensor. Journal of Biological Chemistry, 2006, 281, 37594-37602.	1.6	53
102	One of the Ca2+ binding sites of recoverin exclusively controls interaction with rhodopsin kinase. Biological Chemistry, 2005, 386, 285-9.	1.2	9
103	The Calcium-Sensor Guanylate Cyclase Activating Protein Type 2 Specific Site in Rod Outer Segment Membrane Guanylate Cyclase Type 1â€. Biochemistry, 2005, 44, 7336-7345.	1.2	47
104	Irregular dimerization of guanylate cyclase-activating protein 1 mutants causes loss of target activation. FEBS Journal, 2004, 271, 3785-3793.	0.2	41
105	Recoverin and Rhodopsin Kinase Activity in Detergent-resistant Membrane Rafts from Rod Outer Segments. Journal of Biological Chemistry, 2004, 279, 48647-48653.	1.6	46
106	Thermodynamics of apocalmodulin and nitric oxide synthase II peptide interaction. FEBS Letters, 2004, 577, 465-468.	1.3	9
107	Regulatory modes of rod outer segment membrane guanylate cyclase differ in catalytic efficiency and Ca2+-sensitivity. FEBS Journal, 2003, 270, 3814-3821.	0.2	105
108	Calcium-Modulated Guanylate Cyclase Transduction Machinery in the Photoreceptorâ˜Bipolar Synaptic Regionâ€. Biochemistry, 2003, 42, 5640-5648.	1.2	34

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109	Functional Restoration of the Ca2+-myristoyl Switch in a Recoverin Mutant. Journal of Molecular Biology, 2003, 330, 409-418.	2.0	13
110	Impact of N-terminal Myristoylation on the Ca2+-dependent Conformational Transition in Recoverin. Journal of Biological Chemistry, 2003, 278, 22972-22979.	1.6	42
111	Surface anchoring reduces the lifetime of single specific bonds. Europhysics Letters, 2003, 61, 845-851.	0.7	29
112	Ca2+-Myristoyl Switch in the Neuronal Calcium Sensor Recoverin Requires Different Functions of Ca2+-binding Sites. Journal of Biological Chemistry, 2002, 277, 50365-50372.	1.6	61
113	Calcium- and Myristoyl-Dependent Properties of Guanylate Cyclase-Activating Protein-1 and Protein-2. Biochemistry, 2002, 41, 13021-13028.	1.2	89
114	Target Recognition of Apocalmodulin by Nitric Oxide Synthase I Peptides. Biochemistry, 2002, 41, 8598-8604.	1.2	15
115	Application of Different Lipid Surfaces to Monitor Proteinâ€“Membrane Interactions by Surface Plasmon Resonance Spectroscopy. Spectroscopy, 2002, 16, 271-279.	0.8	5
116	The myristoylation of the neuronal Ca2+-sensors guanylate cyclase-activating protein 1 and 2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1600, 111-117.	1.1	36
117	Photoreceptor specific guanylate cyclases in vertebrate phototransduction. Molecular and Cellular Biochemistry, 2002, 230, 97-106.	1.4	61
118	Calcium-modulated membrane guanylate cyclase in synaptic transmission?. Molecular and Cellular Biochemistry, 2002, 230, 107-116.	1.4	6
119	Retinal diseases linked with photoreceptor guanylate cyclase. Molecular and Cellular Biochemistry, 2002, 230, 129-138.	1.4	23
120	Ca2+ sensor S100beta-modulated sites of membrane guanylate cyclase in thephotoreceptor-bipolar synapse. EMBO Journal, 2002, 21, 2547-2556.	3.5	56
121	Target Recognition of Guanylate Cyclase By Guanylate Cyclase-Activating Proteins. Advances in Experimental Medicine and Biology, 2002, 514, 349-360.	0.8	13
122	Ca2+-Dependent Control of Rhodopsin Phosphorylation: Recoverin And Rhodopsin Kinase. Advances in Experimental Medicine and Biology, 2002, 514, 69-99.	0.8	54
123	Photoreceptor specific guanylate cyclases in vertebrate phototransduction. , 2002, , 97-106.		0
124	Calcium-modulated membrane guanylate cyclase in synaptic transmission?. , 2002, , 107-116.		1
125	Retinal diseases linked with photoreceptor guanylate cyclase. , 2002, , 129-138.		0
126	Calcium-modulated membrane guanylate cyclase in synaptic transmission?. Molecular and Cellular Biochemistry, 2002, 230, 107-16.	1.4	1

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127	Retinal diseases linked with photoreceptor guanylate cyclase. Molecular and Cellular Biochemistry, 2002, 230, 129-38.	1.4	12
128	Photoreceptor specific guanylate cyclases in vertebrate phototransduction. Molecular and Cellular Biochemistry, 2002, 230, 97-106.	1.4	35
129	Application of Different Surface Plasmon Resonance Biosensor Chips to Monitor the Interaction of the CaM-Binding Site of Nitric Oxide Synthase I and Calmodulin. Biochemical and Biophysical Research Communications, 2001, 285, 463-469.	1.0	16
130	Calcium-dependent cysteine reactivities in the neuronal calcium sensor guanylate cyclase-activating protein 1. FEBS Letters, 2001, 508, 355-359.	1.3	11
131	Ligand sensitivity of the Î±2 subunit from the bovine cone cGMPâ€gated channel is modulated by protein kinase C but not by calmodulin. Journal of Physiology, 2001, 532, 399-409.	1.3	23
132	[52] Identification and characterization of calmodulin binding sites in cGMP-gated channel using surface plasmon resonance spectroscopy. Methods in Enzymology, 2000, 315, 785-797.	0.4	15
133	Glycosaminoglycan-Binding Properties and Secondary Structure of the C-Terminus of Netrin-1. Biochemical and Biophysical Research Communications, 2000, 271, 287-291.	1.0	65
134	Impairment of the Rod Outer Segment Membrane Guanylate Cyclase Dimerization in A Coneâ˜'Rod Dystrophy Results in Defective Calcium Signalingâ€. Biochemistry, 2000, 39, 12522-12533.	1.2	47
135	Identification of a Domain in Guanylyl Cyclase-activating Protein 1 That Interacts with a Complex of Guanylyl Cyclase and Tubulin in Photoreceptors. Journal of Biological Chemistry, 1999, 274, 6244-6249.	1.6	46
136	Interaction of glutamic-acid-rich proteins with the cGMP signalling pathway in rod photoreceptors. Nature, 1999, 400, 761-766.	13.7	146
137	Regions in vertebrate photoreceptor guanylyl cyclase ROS-GC1 involved in Ca2+-dependent regulation by guanylyl cyclase-activating protein GCAP-1. FEBS Letters, 1999, 460, 27-31.	1.3	78
138	Functional Consequences of a Rod Outer Segment Membrane Guanylate Cyclase (ROS-GC1) Gene Mutation Linked with Leber's Congenital Amaurosis. Biochemistry, 1999, 38, 509-515.	1.2	79
139	Mutations in the Rod Outer Segment Membrane Guanylate Cyclase in a Coneâ˜'Rod Dystrophy Cause Defects in Calcium Signaling. Biochemistry, 1999, 38, 13912-13919.	1.2	50
140	Calmodulin controls the rod photoreceptor CNG channel through an unconventional binding site in the N-terminus of the beta -subunit. EMBO Journal, 1998, 17, 2273-2284.	3.5	100
141	Introduction of a Phosphate at Serine741 of the Calmodulin-Binding Domain of the Neuronal Nitric Oxide Synthase (NOS-I) Prevents Binding of Calmodulin. Biological Chemistry, 1997, 378, 851-858.	1.2	16
142	Calcium-Dependent Binding of Recoverin to Membranes Monitored by Surface Plasmon Resonance Spectroscopy in Real Timeâ€. Biochemistry, 1997, 36, 12019-12026.	1.2	75
143	Distinct Molecular Recognition of Calmodulin-Binding Sites in the Neuronal and Macrophage Nitric Oxide Synthases:â€‰ A Surface Plasmon Resonance Study. Biochemistry, 1996, 35, 8742-8747.	1.2	40
144	Functional Characterization of a Guanylyl Cyclase-activating Protein from Vertebrate Rods. Journal of Biological Chemistry, 1996, 271, 8022-8027.	1.6	125

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145	Crucial steps in photoreceptor adaptation: Regulation of phosphodiesterase and guanylate cyclase activities and Ca²⁺-buffering. Behavioral and Brain Sciences, 1995, 18, 480-481.	0.4	1
146	Control of photoreceptor proteins by Ca2+. Cell Calcium, 1995, 18, 314-321.	1.1	21
147	Purified retinal nitric oxide synthase enhances ADP-ribosylation of rod outer segment proteins. FEBS Letters, 1995, 357, 178-182.	1.3	18
148	Bovine retinal rod guanyl cyclase represents a new N-glycosylated subtype of membrane-bound guanyl cyclases. FEBS Journal, 1994, 222, 589-595.	0.2	20
149	Frequeninâ€"A novel calcium-binding protein that modulates synaptic efficacy in the drosophila nervous system. Neuron, 1993, 11, 15-28.	3.8	423
150	Calcium as modulator of phototransduction in vertebrate photoreceptor cells. Reviews of Physiology, Biochemistry and Pharmacology, 1993, 125, 149-192.	0.9	57
151	Biochemical mechanism of light adaptation in vertebrate photoreceptors. Trends in Biochemical Sciences, 1992, 17, 307-311.	3.7	68
152	Role of cGMP and Ca2+ in Vertebrate Photoreceptor Excitation and Adaptation. Annual Review of Physiology, 1992, 54, 153-176.	5.6	252
153	Recoverin, a novel calcium-binding protein from vertebrate photoreceptors. BBA - Proteins and Proteomics, 1992, 1160, 63-66.	2.1	83
154	Phosphorylation of recoverin, the calcium-sensitive activator of photoreceptor guanylyl cyclase. FEBS Letters, 1991, 294, 207-209.	1.3	28
155	Highly cooperative feedback control of retinal rod guanylate cyclase by calcium ions. Nature, 1988, 334, 64-66.	13.7	706
156	Mechanism of photoreception in vertebrate vision. Trends in Biochemical Sciences, 1986, 11, 43-47.	3.7	31
157	Ca++ blockers and the release of Ca++ by cyclic GMP in visual rods. Cell Calcium, 1984, 5, 288.	1.1	0
158	Cyclic GMP releases calcium from leaky rod outer segments. Vision Research, 1984, 24, 1477-1479.	0.7	6
159	Spatial-temporal differences of the expression profiles of the GCAP isoforms in the zebrafish retina. , 0, 2007, .		0
160	Guanylate cyclase 2e. The AFCS-nature Molecule Pages, 0, , .	0.2	0