

Evi Kostenis

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

5,195
citations

109137

35
h-index

95083

68
g-index

103
all docs

103
docs citations

103
times ranked

6381
citing authors

#	ARTICLE	IF	CITATIONS
1	The neuropeptide neuromedin U stimulates innate lymphoid cells and type 2 inflammation. <i>Nature</i> , 2017, 549, 282-286.	13.7	400
2	Heterotrimeric G-proteins: a short history. <i>British Journal of Pharmacology</i> , 2006, 147, S46-S55.	2.7	347
3	Pronounced pharmacologic deficits in M2 muscarinic acetylcholine receptor knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 1692-1697.	3.3	325
4	Lack of beta-arrestin signaling in the absence of active G proteins. <i>Nature Communications</i> , 2018, 9, 341.	5.8	297
5	The experimental power of FR900359 to study Gq-regulated biological processes. <i>Nature Communications</i> , 2015, 6, 10156.	5.8	282
6	Deconvolution of complex G protein-coupled receptor signaling in live cells using dynamic mass redistribution measurements. <i>Nature Biotechnology</i> , 2010, 28, 943-949.	9.4	246
7	Emerging roles of DP and CRTH2 in allergic inflammation. <i>Trends in Molecular Medicine</i> , 2006, 12, 148-158.	3.5	195
8	A Platform of Synthetic Lethal Gene Interaction Networks Reveals that the GNAQ Uveal Melanoma Oncogene Controls the Hippo Pathway through FAK. <i>Cancer Cell</i> , 2019, 35, 457-472.e5.	7.7	169
9	Applying label-free dynamic mass redistribution technology to frame signaling of G protein-coupled receptors noninvasively in living cells. <i>Nature Protocols</i> , 2011, 6, 1748-1760.	5.5	154
10	The allosteric vestibule of a seven transmembrane helical receptor controls G-protein coupling. <i>Nature Communications</i> , 2012, 3, 1044.	5.8	117
11	Decoding Signaling and Function of the Orphan G Protein-Coupled Receptor GPR17 with a Small-Molecule Agonist. <i>Science Signaling</i> , 2013, 6, ra93.	1.6	111
12	Activity of dietary fatty acids on FFA1 and FFA4 and characterisation of pinolenic acid as a dual FFA1/FFA4 agonist with potential effect against metabolic diseases. <i>British Journal of Nutrition</i> , 2015, 113, 1677-1688.	1.2	93
13	The Gq signalling pathway inhibits brown and beige adipose tissue. <i>Nature Communications</i> , 2016, 7, 10895.	5.8	90
14	The Adhesion G Protein-Coupled Receptor GPR56/ADGRG1 Is an Inhibitory Receptor on Human NK Cells. <i>Cell Reports</i> , 2016, 15, 1757-1770.	2.9	84
15	Direct targeting of G α_q and G α_{11} oncoproteins in cancer cells. <i>Science Signaling</i> , 2019, 12, .	1.6	84
16	Community guidelines for GPCR ligand bias: IUPHAR review 32. <i>British Journal of Pharmacology</i> , 2022, 179, 3651-3674.	2.7	84
17	The atypical chemokine receptor ACKR3/CXCR7 is a broad-spectrum scavenger for opioid peptides. <i>Nature Communications</i> , 2020, 11, 3033.	5.8	74
18	Key Determinants of Nucleotide-Activated G Protein-Coupled P2Y ₂ Receptor Function Revealed by Chemical and Pharmacological Experiments, Mutagenesis and Homology Modeling. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2762-2775.	2.9	73

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19	Temporal Bias: Time-Encoded Dynamic GPCR Signaling. Trends in Pharmacological Sciences, 2017, 38, 1110-1124.	4.0	68
20	Structure-Activity Relationships in a Series of Bisquaternary Bisphthalimidine Derivatives Modulating the Muscarinic M2-Receptor Allosterically. Journal of Medicinal Chemistry, 2000, 43, 2155-2164.	2.9	67
21	A Novel Allosteric Activator of Free Fatty Acid 2 Receptor Displays Unique Gi-functional Bias. Journal of Biological Chemistry, 2016, 291, 18915-18931.	1.6	66
22	The Orphan G Protein-coupled Receptor GPR17 Negatively Regulates Oligodendrocyte Differentiation via G β i/o and Its Downstream Effector Molecules. Journal of Biological Chemistry, 2016, 291, 705-718.	1.6	66
23	Heterotrimeric Gq proteins as therapeutic targets?. Journal of Biological Chemistry, 2020, 295, 5206-5215.	1.6	58
24	Heterologous Expression, Biosynthetic Studies, and Ecological Function of the Selective Gq β 6 Signaling Inhibitor FR900359. Angewandte Chemie - International Edition, 2018, 57, 836-840.	7.2	57
25	Structure-Activity Study of Dihydrocinnamic Acids and Discovery of the Potent FFA1 (GPR40) Agonist TUG-469. ACS Medicinal Chemistry Letters, 2010, 1, 345-349.	1.3	56
26	The C-terminal Tail of CRTH2 Is a Key Molecular Determinant That Constrains G β i and Downstream Signaling Cascade Activation. Journal of Biological Chemistry, 2009, 284, 1324-1336.	1.6	54
27	Heterotrimeric G Protein Subunit G β q Is a Master Switch for G β 2 β 3-Mediated Calcium Mobilization by Gi-Coupled GPCRs. Molecular Cell, 2020, 80, 940-954.e6.	4.5	54
28	GPCR kinase knockout cells reveal the impact of individual GRKs on arrestin binding and GPCR regulation. Nature Communications, 2022, 13, 540.	5.8	54
29	Targeted inhibition of G β q signaling induces airway relaxation in mouse models of asthma. Science Translational Medicine, 2017, 9, .	5.8	50
30	A Cell-Permeable Inhibitor to Trap G β q Proteins in the Empty Pocket Conformation. Chemistry and Biology, 2014, 21, 890-902.	6.2	47
31	Chemokine receptor trafficking coordinates neutrophil clustering and dispersal at wounds in zebrafish. Nature Communications, 2019, 10, 5166.	5.8	47
32	Mapping physiological G protein-coupled receptor signaling pathways reveals a role for receptor phosphorylation in airway contraction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4524-4529.	3.3	46
33	FZD β 5 is a G β q-coupled receptor that exhibits the functional hallmarks of prototypical GPCRs. Science Signaling, 2018, 11, .	1.6	46
34	Local IP β 3 receptor-mediated Ca $^{2+}$ signals compound to direct blood flow in brain capillaries. Science Advances, 2021, 7, .	4.7	46
35	Dynamic ligand binding dictates partial agonism at a G protein-coupled receptor. Nature Chemical Biology, 2014, 10, 18-20.	3.9	45
36	<i>N</i> -Benzylbenzamides: A Novel Merged Scaffold for Orally Available Dual Soluble Epoxide Hydrolase/Peroxisome Proliferator-Activated Receptor β 3 Modulators. Journal of Medicinal Chemistry, 2016, 59, 61-81.	2.9	44

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37	Arrestins as rheostats of GPCR signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 615-616.	16.1	44
38	Impaired endothelium-mediated cerebrovascular reactivity promotes anxiety and respiration disorders in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1753-1761.	3.3	39
39	Pilot the pulse: controlling the multiplicity of receptor dynamics. <i>Trends in Pharmacological Sciences</i> , 2014, 35, 630-638.	4.0	34
40	WNT Stimulation Dissociates a Frizzled 4 Inactive-State Complex with G α _{12/13} . <i>Molecular Pharmacology</i> , 2016, 90, 447-459.	1.0	33
41	Rational design of a heterotrimeric G protein β subunit with artificial inhibitor sensitivity. <i>Journal of Biological Chemistry</i> , 2019, 294, 5747-5758.	1.6	32
42	Thioesterase-mediated side chain transesterification generates potent Gq signaling inhibitor FR900359. <i>Nature Communications</i> , 2021, 12, 144.	5.8	32
43	Reactivation of G α _i -coupled formyl peptide receptors is inhibited by G α _q -selective inhibitors when induced by signals generated by the platelet-activating factor receptor. <i>Journal of Leukocyte Biology</i> , 2017, 102, 871-880.	1.5	31
44	A Molecular Mechanism for Sequential Activation of a G Protein-Coupled Receptor. <i>Cell Chemical Biology</i> , 2016, 23, 392-403.	2.5	30
45	G α ₁₁ -dependent regulation of endosomal cAMP generation by parathyroid hormone class B GPCR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7455-7460.	3.3	30
46	Prostaglandin E2 glyceryl ester is an endogenous agonist of the nucleotide receptor P2Y6. <i>Scientific Reports</i> , 2017, 7, 2380.	1.6	29
47	Deciphering Specificity Determinants for FR900359-Derived G α _q -Inhibitors Based on Computational and Structure-Activity Studies. <i>ChemMedChem</i> , 2018, 13, 1634-1643.	1.6	29
48	Label-Free Biosensor Assays in GPCR Screening. <i>Methods in Molecular Biology</i> , 2015, 1272, 199-213.	0.4	29
49	Functional selectivity and dualsteric/bitopic GPCR targeting. <i>Current Opinion in Pharmacology</i> , 2017, 32, 85-90.	1.7	27
50	Repurposing HAMI3379 to Block GPR17 and Promote Rodent and Human Oligodendrocyte Differentiation. <i>Cell Chemical Biology</i> , 2018, 25, 775-786.e5.	2.5	27
51	Applying Molecular Networking for the Detection of Natural Sources and Analogues of the Selective Gq Protein Inhibitor FR900359. <i>Journal of Natural Products</i> , 2018, 81, 1628-1635.	1.5	27
52	G α ₁₃ signaling to the chemotactic effector P-REX1 and mammalian cell migration is directly regulated by G α _q and G α ₁₃ proteins. <i>Journal of Biological Chemistry</i> , 2019, 294, 531-546.	1.6	27
53	Superagonism at G protein-coupled receptors and beyond. <i>British Journal of Pharmacology</i> , 2016, 173, 3018-3027.	2.7	25
54	A Chemical Biology Toolbox Targeting the Intracellular Binding Site of CCR9: Fluorescent Ligands, New Drug Leads and PROTACs. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24

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55	Selective optogenetic control of Gq signaling using human Neuropsin. <i>Nature Communications</i> , 2022, 13, 1765.	5.8	24
56	The Orphan Receptor GPR17 Is Unresponsive to Uracil Nucleotides and Cysteinyl Leukotrienes. <i>Molecular Pharmacology</i> , 2017, 91, 518-532.	1.0	23
57	FZD10-Gi±13 signalling axis points to a role of FZD10 in CNS angiogenesis. <i>Cellular Signalling</i> , 2017, 32, 93-103.	1.7	22
58	An experimental strategy to probe Gq contribution to signal transduction in living cells. <i>Journal of Biological Chemistry</i> , 2021, 296, 100472.	1.6	22
59	RXFP1 Receptor Activation by Relaxin-2 Induces Vascular Relaxation in Mice via a Gi±2-Protein/PI3KÄŸ/Î³/Nitric Oxide-Coupled Pathway. <i>Frontiers in Physiology</i> , 2018, 9, 1234.	1.3	21
60	3-(2-Carboxyethyl)indole-2-carboxylic Acid Derivatives: Structural Requirements and Properties of Potent Agonists of the Orphan G Protein-Coupled Receptor GPR17. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 8136-8154.	2.9	19
61	5-HT2A receptor-dependent phosphorylation of mGlu2 receptor at Serine 843 promotes mGlu2 receptor-operated Gi/o signaling. <i>Molecular Psychiatry</i> , 2019, 24, 1610-1626.	4.1	17
62	FFA2-, but not FFA3-agonists inhibit GSIS of human pseudoislets: a comparative study with mouse islets and rat INS-1E cells. <i>Scientific Reports</i> , 2020, 10, 16497.	1.6	17
63	Development of [³ H]2-Carboxy-4,6-dichloro-1 <i>H</i> -indole-3-propionic Acid ([³ H]PSB-12150): A Useful Tool for Studying GPR17. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 326-330.	1.3	16
64	New insight into active muscarinic receptors with the novel radioagonist [3H]iperoxo. <i>Biochemical Pharmacology</i> , 2014, 90, 307-319.	2.0	16
65	NOP receptor pharmacological profile â€“ A dynamic mass redistribution study. <i>PLoS ONE</i> , 2018, 13, e0203021.	1.1	15
66	Ligand-Specific Allosteric Coupling Controls G-Protein-Coupled Receptor Signaling. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 859-867.	2.5	15
67	Atypical opioid receptors: unconventional biology and therapeutic opportunities. , 2022, 233, 108014.		15
68	A New Molecular Mechanism To Engineer Protean Agonism at a G Proteinâ€“Coupled Receptor. <i>Molecular Pharmacology</i> , 2017, 91, 348-356.	1.0	13
69	Adipocyte Gq signaling is a regulator of glucose and lipid homeostasis in mice. <i>Nature Communications</i> , 2022, 13, 1652.	5.8	13
70	A concise synthesis of the potent inflammatory mediator 5-oxo-EETE. <i>MedChemComm</i> , 2012, 3, 195-198.	3.5	12
71	Î²-Arrestin 2 Inhibits Proinflammatory Chemokine Production and Attenuates Contact Allergic Inflammation in the Skin. <i>Journal of Investigative Dermatology</i> , 2014, 134, 2131-2137.	0.3	12
72	Improved synthesis of 4-/6-substituted 2-carboxy-1 <i>H</i> -indole-3-propionic acid derivatives and structureâ€“activity relationships as GPR17 agonists. <i>MedChemComm</i> , 2014, 5, 86-92.	3.5	11

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73	Delineation of molecular determinants for FR900359 inhibition of Gq/11 unlocks inhibition of G β s. Journal of Biological Chemistry, 2020, 295, 13850-13861.	1.6	11
74	Gq signaling in β cells is critical for maintaining euglycemia. JCI Insight, 2021, 6, .	2.3	11
75	Label-Free Whole Cell Biosensing for High-Throughput Discovery of Activators and Inhibitors Targeting G Protein-Activated Inwardly Rectifying Potassium Channels. ACS Omega, 2018, 3, 14814-14823.	1.6	10
76	Unraveling binding mechanism and kinetics of macrocyclic G β q protein inhibitors. Pharmacological Research, 2021, 173, 105880.	3.1	10
77	Disentangling bias between Gq, GRK2, and arrestin3 recruitment to the M3 muscarinic acetylcholine receptor. ELife, 2021, 10, .	2.8	10
78	Pro-Angiogenic Effects of Latent Heparanase and Thrombin Receptor-Mediated Pathwaysâ€”Do They Share a Common Ground in Melanoma Cells?. Thrombosis and Haemostasis, 2018, 118, 1803-1814.	1.8	8
79	Exploring Biased Agonism at FPR1 as a Means to Encode Danger Sensing. Cells, 2020, 9, 1054.	1.8	8
80	Class A Orphans (version 2019.5) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	8
81	Holistic Methods for the Analysis of cNMP Effects. Handbook of Experimental Pharmacology, 2015, 238, 339-357.	0.9	7
82	Activation of Gq signaling by Pasteurella multocida toxin inhibits the osteoblastogenic-like actions of Activin A in C2C12 myoblasts, a cell model of fibrodysplasia ossificans progressiva. Bone, 2019, 127, 592-601.	1.4	7
83	Tetrahydroimidazo[1,2-a</i>]pyrazine Derivatives: Synthesis and Evaluation as G β q</sub>-Protein Ligands. Chemistry - A European Journal, 2020, 26, 12615-12623.	1.7	7
84	Feature-Based Molecular Networking for the Targeted Identification of G_q-Inhibiting FR900359 Derivatives. Journal of Natural Products, 2021, 84, 1941-1953.	1.5	7
85	Class A Orphans (version 2020.5) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2020, 2020, .	0.2	7
86	Brutonâ€™s tyrosine kinase and RAC1 promote cell survival in MLL-rearranged acute myeloid leukemia. Leukemia, 2018, 32, 846-849.	3.3	6
87	Biased signaling of Ca ²⁺ -sensing receptors in cardiac myocytes regulates GIRK channel activity. Journal of Molecular and Cellular Cardiology, 2019, 130, 107-121.	0.9	6
88	Heterologe Expression, Biosynthese und β rkologische Funktion des selektiven Gqâ€™Signaltransduktionsinhibitors FR900359. Angewandte Chemie, 2018, 130, 844-849.	1.6	5
89	BIM-46174 fragments as potential ligands of G proteins. MedChemComm, 2019, 10, 1838-1843.	3.5	5
90	Engineered Context-Sensitive Agonism: Tissue-Selective Drug Signaling through a G Protein-Coupled Receptor. Journal of Pharmacology and Experimental Therapeutics, 2017, 360, 289-299.	1.3	4

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91	Class A Orphans in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	3
92	Heterotrimeric G Protein Subunit G α q is a Master Switch for G $\beta\gamma$ -Mediated Calcium Mobilization by Gi-Coupled GPCRs. SSRN Electronic Journal, 0, , .	0.4	1
93	A GPCR's back door. Nature Chemical Biology, 2014, 10, 609-610.	3.9	0
94	The endophyte Candidatus Burkholderia crenata of the TCM plant Ardisia crenata produces the selective Gq-inhibitor FR900359. Planta Medica, 2016, 81, S1-S381.	0.7	0
95	Class A Orphans (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	0
96	Chemisch-€biologischer Werkzeugkasten f¼r die intrazelluläre Bindungsstelle von CCR9: Fluoreszierende Liganden, neue Leitstrukturen und PROTACs. Angewandte Chemie, 0, , .	1.6	0