Martine J Smit

List of Publications by Year
in descending order

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Version: 2024-02-01

109 papers	6,317 citations	61984 43 h-index	88630 70 g-index
131 all docs	131 docs citations	131 times ranked	6805 citing authors

#	Article	IF	Citations
1	Biogenesis and function of extracellular vesicles in cancer. , 2018, 188, 1-11.		549
2	Consensus on the role of human cytomegalovirus in glioblastoma. Neuro-Oncology, 2012, 14, 246-255.	1.2	245
3	Quantifying exosome secretion from single cells reveals a modulatory role for GPCR signaling. Journal of Cell Biology, 2018, 217, 1129-1142.	5.2	227
4	Constitutive Signaling of the Human Cytomegalovirus-encoded Chemokine Receptor US28. Journal of Biological Chemistry, 2001, 276, 1133-1137.	3.4	222
5	CXCR4 nanobodies (VHH-based single variable domains) potently inhibit chemotaxis and HIV-1 replication and mobilize stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20565-20570.	7.1	202
6	Human cytomegalovirus-encoded chemokine receptor US28 promotes tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13068-13073.	7.1	201
7	HCMV-Encoded Chemokine Receptor US28 Mediates Proliferative Signaling Through the IL-6â€“STAT3 Axis. Science Signaling, 2010, 3, ra58.	3.6	187
8	Pharmacogenomic and Structural Analysis of Constitutive G Proteinâ€“Coupled Receptor Activity. Annual Review of Pharmacology and Toxicology, 2007, 47, 53-87.	9.4	169
9	CXCR3-mediated chemotaxis of human T cells is regulated by a Gi- and phospholipase Câ€“dependent pathway and not via activation of MEK/p44/p42 MAPK nor Akt/PI-3 kinase. Blood, 2003, 102, 1959-1965.	1.4	161
10	The Human Cytomegalovirusâ€“Encoded Chemokine Receptor US28 Promotes Angiogenesis and Tumor Formation via Cyclooxygenase-2. Cancer Research, 2009, 69, 2861-2869.	0.9	139
11	The CXCR3-CXCL11 signaling axis mediates macrophage recruitment and dissemination of mycobacterial infection. DMM Disease Models and Mechanisms, 2015, 8, 253-69.	2.4	129
12	Llama-derived Single Variable Domains (Nanobodies) Directed against Chemokine Receptor CXCR7 Reduce Head and Neck Cancer Cell Growth in Vivo. Journal of Biological Chemistry, 2013, 288, 29562-29572.	3.4	123
13	Cutting Edge: GPR35/CXCR8 Is the Receptor of the Mucosal Chemokine CXCL17. Journal of Immunology, 2015, 194, 29-33.	0.8	122
14	Targeting chemokine receptors in chronic inflammatory diseases: An extensive review. , 2012, 133, 1-18.		112
15	The Carboxyl Terminus of Human Cytomegalovirus-encoded 7 Transmembrane Receptor US28 Camouflages Agonism by Mediating Constitutive Endocytosis. Journal of Biological Chemistry, 2003, 278, 19473-19482.	3.4	104
16	The Epstein-Barr Virus BILF1 Gene Encodes a G Protein-Coupled Receptor That Inhibits Phosphorylation of RNA-Dependent Protein Kinase. Journal of Virology, 2005, 79, 441-449.	3.4	100
17	The cytomegalovirus-encoded chemokine receptor US28 promotes intestinal neoplasia in transgenic mice. Journal of Clinical Investigation, 2010, 120, 3969-3978.	8.2	96
18	Structural Analysis of Chemokine Receptorâ€“Ligand Interactions. Journal of Medicinal Chemistry, 2017, 60, 4735-4779.	6.4	94

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19	Kaposi's Sarcoma-Associated Herpesvirus-Encoded G Protein-Coupled Receptor ORF74 Constitutively Activates p44/p42 MAPK and Akt via G i and Phospholipase C-Dependent Signaling Pathways. Journal of Virology, 2002, 76, 1744-1752.	3.4	93
20	Human Cytomegalovirus Chemokine Receptor US28-induced Smooth Muscle Cell Migration Is Mediated by Focal Adhesion Kinase and Src. Journal of Biological Chemistry, 2003, 278, 50456-50465.	3.4	90
21	Ubiquitination of CXCR7 Controls Receptor Trafficking. PLoS ONE, 2012, 7, e34192.	2.5	86
22	Constitutive Signaling of the Human Cytomegalovirus-encoded Receptor UL33 Differs from That of Its Rat Cytomegalovirus Homolog R33 by Promiscuous Activation of G Proteins of the Gq, Gi, and Gs Classes. Journal of Biological Chemistry, 2003, 278, 50010-50023.	3.4	85
23	The Epstein-Barr Virus-encoded G Protein-coupled Receptor BILF1 Hetero-oligomerizes with Human CXCR4, Scavenges Gî±i Proteins, and Constitutively Impairs CXCR4 Functioning. Journal of Biological Chemistry, 2010, 285, 29632-29641.	3.4	85
24	Identification of the First Nonpeptidergic Inverse Agonist for a Constitutively Active Viral-encoded G Protein-coupled Receptor. Journal of Biological Chemistry, 2003, 278, 5172-5178.	3.4	82
25	Latency-Associated Expression of Human Cytomegalovirus US28 Attenuates Cell Signaling Pathways To Maintain Latent Infection. MBio, 2017, 8, .	4.1	82
26	The Rat Cytomegalovirus R33-Encoded G Protein-Coupled Receptor Signals in a Constitutive Fashion. Journal of Virology, 2002, 76, 1328-1338.	3.4	79
27	GPCR-targeting nanobodies: attractive research tools, diagnostics, and therapeutics. Trends in Pharmacological Sciences, 2014, 35, 247-255.	8.7	79
28	Herpesvirus-encoded GPCRs: neglected players in inflammatory and proliferative diseases?. Nature Reviews Drug Discovery, 2014, 13, 123-139.	46.4	76
29	CC and CX3C Chemokines Differentially Interact with the N Terminus of the Human Cytomegalovirus-encoded US28 Receptor. Journal of Biological Chemistry, 2005, 280, 3275-3285.	3.4	71
30	Nanobody-Targeted Photodynamic Therapy Selectively Kills Viral GPCR-Expressing Glioblastoma Cells. Molecular Pharmaceutics, 2019, 16, 3145-3156.	4.6	61
31	Differential Ligand Binding to a Human Cytomegalovirus Chemokine Receptor Determines Cell Typeâ€“Specific Motility. PLoS Pathogens, 2009, 5, e1000304.	4.7	59
32	The constitutive activity of the virally encoded chemokine receptor US28 accelerates glioblastoma growth. Oncogene, 2018, 37, 4110-4121.	5.9	59
33	Noncompetitive Antagonism and Inverse Agonism as Mechanism of Action of Nonpeptidergic Antagonists at Primate and Rodent CXCR3 Chemokine Receptors. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 544-555.	2.5	57
34	Constitutive Activity and Structural Instability of the Wildâ€Type Human H₂ Receptor. Journal of Neurochemistry, 1998, 71, 799-807.	3.9	56
35	Synthesis, modeling and functional activity of substituted styrene-amides as small-molecule CXCR7 agonists. European Journal of Medicinal Chemistry, 2012, 51, 184-192.	5.5	54
36	Heterogeneity assessment of antibody-derived therapeutics at the intact and middle-up level by low-flow sheathless capillary electrophoresis-mass spectrometry. Analytica Chimica Acta, 2018, 1044, 181-190.	5.4	54

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37	Constitutively active Gq/11-coupled Receptors Enable Signaling by Co-expressed Gi/o-coupled Receptors. Journal of Biological Chemistry, 2004, 279, 5152-5161.	3.4	52
38	Viral hijacking of human receptors through heterodimerization. Biochemical and Biophysical Research Communications, 2008, 377, 93-97.	2.1	52
39	The human cytomegalovirus-encoded chemokine receptor US28 induces caspase-dependent apoptosis. FEBS Journal, 2005, 272, 4163-4177.	4.7	50
40	Synthesis and Characterization of a Bidirectional Photoswitchable Antagonist Toolbox for Real-Time GPCR Photopharmacology. Journal of the American Chemical Society, 2018, 140, 4232-4243.	13.7	50
41	Nanobodies: New avenues for imaging, stabilizing and modulating GPCRs. Molecular and Cellular Endocrinology, 2019, 484, 15-24.	3.2	50
42	Human cytomegalovirus encoded chemokine receptor US28 activates the HIF-1Î±/PKM2 axis in glioblastoma cells. Oncotarget, 2016, 7, 67966-67985.	1.8	49
43	Multiple Binding Sites for Small-Molecule Antagonists at the CC Chemokine Receptor 2. Molecular Pharmacology, 2013, 84, 551-561.	2.3	48
44	Differential Activation of Murine Herpesvirus 68- and Kaposi's Sarcoma-Associated Herpesvirus-Encoded ORF74 G Protein-Coupled Receptors by Human and Murine Chemokines. Journal of Virology, 2004, 78, 3343-3351.	3.4	46
45	Nanobody-Fc constructs targeting chemokine receptor CXCR4 potently inhibit signaling and CXCR4-mediated HIV-entry and induce antibody effector functions. Biochemical Pharmacology, 2018, 158, 413-424.	4.4	44
46	Modulation of cellular signaling by herpesvirus-encoded G protein-coupled receptors. Frontiers in Pharmacology, 2015, 6, 40.	3.5	43
47	Advanced fluorescence microscopy reveals disruption of dynamic CXCR4 dimerization by subpocket-specific inverse agonists. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29144-29154.	7.1	42
48	Nanobodies detecting and modulating GPCRs outside in and inside out. Current Opinion in Cell Biology, 2019, 57, 115-122.	5.4	41
49	Neutralizing Nanobodies Targeting Diverse Chemokines Effectively Inhibit Chemokine Function. Journal of Biological Chemistry, 2013, 288, 25173-25182.	3.4	40
50	Synthesis and Structureâ^'Activity Relationship of the First Nonpeptidergic Inverse Agonists for the Human Cytomegalovirus Encoded Chemokine Receptor US28. Journal of Medicinal Chemistry, 2005, 48, 6461-6471.	6.4	39
51	Modulation of forskolinâ€mediated adenylyl cyclase activation by constitutively active G_sâ€coupled receptors. FEBS Letters, 1997, 419, 171-174.	2.8	38
52	Nonpeptidergic Allosteric Antagonists Differentially Bind to the CXCR2 Chemokine Receptor. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 783-790.	2.5	38
53	Synthesis and pharmacological characterization of novel inverse agonists acting on the viral-encoded chemokine receptor US28. Bioorganic and Medicinal Chemistry, 2006, 14, 7213-7230.	3.0	37
54	Immunomodulation by herpesvirus U51A chemokine receptor via CCL5 and FOGâ€2 downâ€regulation plus XCR1 and CCR7 mimicry in human leukocytes. European Journal of Immunology, 2008, 38, 763-777.	2.9	37

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55	Î²-Arrestin Recruitment and G Protein Signaling by the Atypical Human Chemokine Decoy Receptor CCX-CKR. Journal of Biological Chemistry, 2013, 288, 7169-7181.	3.4	35
56	Constitutive ÃŸ-Catenin Signaling by the Viral Chemokine Receptor US28. PLoS ONE, 2012, 7, e48935.	2.5	35
57	CXCR4-targeting nanobodies differentially inhibit CXCR4 function and HIV entry. Biochemical Pharmacology, 2018, 158, 402-412.	4.4	34
58	Chemokine-Directed Trafficking of Receptor Stimulus to Different G Proteins: Selective Inducible and Constitutive Signaling by Human Herpesvirus 6-Encoded Chemokine Receptor U51. Molecular Pharmacology, 2006, 69, 888-898.	2.3	33
59	A Role for the Epidermal Growth Factor Receptor Signaling in Development of Intestinal Serrated Polyps in Mice and Humans. Gastroenterology, 2012, 143, 730-740.	1.3	32
60	Identification and Characterization of Circulating Variants of CXCL12 from Human Plasma: Effects on Chemotaxis and Mobilization of Hematopoietic Stem and Progenitor Cells. Stem Cells and Development, 2014, 23, 1959-1974.	2.1	32
61	Chemokine Cooperativity Is Caused by Competitive Glycosaminoglycan Binding. Journal of Immunology, 2014, 192, 3908-3914.	0.8	31
62	Antibodies Targeting Chemokine Receptors CXCR4 and ACKR3. Molecular Pharmacology, 2019, 96, 753-764.	2.3	31
63	Identification of novel allosteric nonpeptidergic inhibitors of the human cytomegalovirus-encoded chemokine receptor US28. Bioorganic and Medicinal Chemistry, 2010, 18, 675-688.	3.0	30
64	Herpesvirus-encoded GPCRs rewire cellular signaling. Molecular and Cellular Endocrinology, 2011, 331, 179-184.	3.2	30
65	The CXCL12/CXCR4/ACKR3 Axis in the Tumor Microenvironment: Signaling, Crosstalk, and Therapeutic Targeting. Annual Review of Pharmacology and Toxicology, 2021, 61, 541-563.	9.4	29
66	Targeting chemokines and chemokine receptors with antibodies. Drug Discovery Today: Technologies, 2012, 9, e237-e244.	4.0	28
67	Combined CXCR3/CXCR4 measurements are of high prognostic value in chronic lymphocytic leukemia due to negative co-operativity of the receptors. Haematologica, 2016, 101, e99-e102.	3.5	28
68	Novel Human Cytomegalovirus Viral Chemokines, vCXCL-1s, Display Functional Selectivity for Neutrophil Signaling and Function. Journal of Immunology, 2015, 195, 227-236.	0.8	27
69	Helix 8 of the Viral Chemokine Receptor ORF74 Directs Chemokine Binding. Journal of Biological Chemistry, 2006, 281, 35327-35335.	3.4	26
70	CXCR4-Specific Nanobodies as Potential Therapeutics for WHIM syndrome. Journal of Pharmacology and Experimental Therapeutics, 2017, 363, 35-44.	2.5	26
71	Identification of Overlapping but Differential Binding Sites for the High-Affinity CXCR3 Antagonists NBI-74330 and VUF11211. Molecular Pharmacology, 2014, 85, 116-126.	2.3	25
72	The Role of ACKR3 in Breast, Lung, and Brain Cancer. Molecular Pharmacology, 2019, 96, 819-825.	2.3	25

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73	The G-protein Coupled Receptor Associated Sorting Protein GASP-1 Regulates the Signalling and Trafficking of the Viral Chemokine Receptor US28. Traffic, 2010, 11, 660-674.	2.7	24
74	Differential Involvement of ACKR3 C-Tail in Î²-Arrestin Recruitment, Trafficking and Internalization. Cells, 2021, 10, 618.	4.1	24
75	D-dopachrome tautomerase contributes to lung epithelial repair via atypical chemokine receptor 3-dependent Akt signaling. EBioMedicine, 2021, 68, 103412.	6.1	22
76	The human cytomegalovirus-encoded G proteinâ€“coupled receptor UL33 exhibits oncomodulatory properties. Journal of Biological Chemistry, 2019, 294, 16297-16308.	3.4	21
77	The atypical chemokine receptor 3 interacts with Connexin 43 inhibiting astrocytic gap junctional intercellular communication. Nature Communications, 2020, 11, 4855.	12.8	21
78	The Convergence of Extracellular Vesicle and GPCR Biology. Trends in Pharmacological Sciences, 2020, 41, 627-640.	8.7	21
79	Monitoring Allosteric Interactions with CXCR4 Using NanoBiT Conjugated Nanobodies. Cell Chemical Biology, 2020, 27, 1250-1261.e5.	5.2	21
80	Significance of N-Terminal Proteolysis of CCL14a to Activity on the Chemokine Receptors CCR1 and CCR5 and the Human Cytomegalovirus-Encoded Chemokine Receptor US28. Journal of Immunology, 2009, 183, 1229-1237.	0.8	19
81	Antibodies targeting G protein-coupled receptors: Recent advances and therapeutic challenges. MAbs, 2017, 9, 735-741.	5.2	19
82	Sars-Cov-2 Infects an Upper Airway Model Derived from Induced Pluripotent Stem Cells. Stem Cells, 2021, 39, 1310-1321.	3.2	19
83	Selective targeting of ligand-dependent and -independent signaling by GPCR conformation-specific anti-US28 intrabodies. Nature Communications, 2021, 12, 4357.	12.8	18
84	The Viral G Protein-Coupled Receptor ORF74 Hijacks Î²-Arrestins for Endocytic Trafficking in Response to Human Chemokines. PLoS ONE, 2015, 10, e0124486.	2.5	17
85	Viral G protein-coupled receptors as modulators of cancer hallmarks. Pharmacological Research, 2020, 156, 104804.	7.1	17
86	eXamine: Exploring annotated modules in networks. BMC Bioinformatics, 2014, 15, 201.	2.6	16
87	Targeting the latent human cytomegalovirus reservoir for T-cell-mediated killing with virus-specific nanobodies. Nature Communications, 2021, 12, 4436.	12.8	16
88	Conformational selection guides Î²-arrestin recruitment at a biased G proteinâ€“coupled receptor. Science, 2022, 377, 222-228.	12.6	16
89	CXCR4/ACKR3 Phosphorylation and Recruitment of Interacting Proteins: Key Mechanisms Regulating Their Functional Status. Molecular Pharmacology, 2019, 96, 794-808.	2.3	15
90	Viral G Proteinâ€“Coupled Receptors: Attractive Targets for Herpesvirus-Associated Diseases. Pharmacological Reviews, 2021, 73, 828-846.	16.0	15

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91	Pharmacological Characterization of [³H]VUF11211, a Novel Radiolabeled Small-Molecule Inverse Agonist for the Chemokine Receptor CXCR3. Molecular Pharmacology, 2015, 87, 639-648.	2.3	14
92	Natural Killer Cell Hypo-responsiveness in Chronic Lymphocytic Leukemia can be Circumvented In Vitro by Adequate Activating Signaling. HemaSphere, 2019, 3, e308.	2.7	14
93	Targeting the chemokine receptor system. Drug Discovery Today: Technologies, 2012, 9, e227-e228.	4.0	13
94	Kinetic Analysis of the Early Signaling Steps of the Human Chemokine Receptor CXCR4. Molecular Pharmacology, 2020, 98, 72-87.	2.3	13
95	Therapeutic targeting of chemokine receptors by small molecules. Drug Discovery Today: Technologies, 2012, 9, e229-e236.	4.0	12
96	Human Cytomegalovirus-Encoded Receptor US28 Is Expressed in Renal Allografts and Facilitates Viral Spreading In Vitro. Transplantation, 2017, 101, 531-540.	1.0	12
97	Chapter 7 Pharmacological and Biochemical Characterization of Human Cytomegalovirusâ€Encoded G Proteinâ€“Coupled Receptors. Methods in Enzymology, 2009, 460, 151-171.	1.0	9
98	At-line coupling of LCâ€“MS to bioaffinity and selectivity assessment for metabolic profiling of ligands towards chemokine receptors CXCR1 and CXCR2. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 1002, 42-53.	2.3	9
99	Human Cytomegalovirus-Encoded G Protein-Coupled Receptor UL33 Facilitates Virus Dissemination via the Extracellular and Cell-to-Cell Route. Viruses, 2020, 12, 594.	3.3	8
100	G protein-coupled receptors and proliferative signaling. Methods in Enzymology, 2002, 343, 430-447.	1.0	6
101	G protein-coupled receptors as promising targets in cancer. Current Opinion in Endocrine and Metabolic Research, 2021, 16, 119-127.	1.4	6
102	The constitutive activity of the viral-encoded G protein-coupled receptor US28 supports a complex signalling network contributing to cancer development. Biochemical Society Transactions, 2020, 48, 1493-1504.	3.4	5
103	Molecular Pharmacology of Chemokine Receptors. Methods in Enzymology, 2016, 570, 457-515.	1.0	4
104	The viral G protein-coupled receptor ORF74 unmasks phospholipase C signaling of the receptor tyrosine kinase IGF-1R. Cellular Signalling, 2016, 28, 595-605.	3.6	4
105	Exploring the Biology of G Proteinâ€“Coupled Receptors from In Vitro to In Vivo. Molecular Pharmacology, 2015, 88, 534-535.	2.3	2
106	Molecular Pharmacology of a Conformationalâ€Specific Extracellular Nanobody Against CXCR4. FASEB Journal, 2019, 33, 668.9.	0.5	2
107	From Insight to Modulation of CXCR4 and ACKR3 (CXCR7) Function. Molecular Pharmacology, 2019, 96, 735-736.	2.3	1
108	GPCRâ€TargetÃng NanobodÃes as Attractive Research Tools, Diagnostics and Therapeutics. FASEB Journal, 2015, 29, 486.2.	0.5	0

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109	Pharmacology of Viral GPCRs: All-Round Chemokine Receptor Homologs. , 2021, , .		0