

# Tracy M Handel

## List of Publications by Year in descending order

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94  
papers

8,833  
citations

57719

44  
h-index

56687

83  
g-index

102  
all docs

102  
docs citations

102  
times ranked

9782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structures of atypical chemokine receptor 3 reveal the basis for its promiscuity and signaling bias. <i>Science Advances</i> , 2022, 8, .	4.7	31
2	Chemokine receptor CXCR4 oligomerization is disrupted selectively by the antagonist ligand IT1t. <i>Journal of Biological Chemistry</i> , 2021, 296, 100139.	1.6	15
3	Perspectives on the Biological Role of Chemokine:Glycosaminoglycan Interactions. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 87-91.	1.3	18
4	Design and Characterization of an Intracellular Covalent Ligand for CC Chemokine Receptor 2. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2608-2621.	2.9	13
5	Cryo-EM Structure of Atypical Chemokine Receptor 3 (ACKR3) in Complex with its Endogenous Ligand CXCL12. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
6	Anticancer opportunities at every stage of chemokine function. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 912-928.	4.0	22
7	Functional anatomy of the full-length CXCR4-CXCL12 complex systematically dissected by quantitative model-guided mutagenesis. <i>Science Signaling</i> , 2020, 13, .	1.6	24
8	Differential activity and selectivity of N-terminal modified CXCL12 chemokines at the CXCR4 and ACKR3 receptors. <i>Journal of Leukocyte Biology</i> , 2020, 107, 1123-1135.	1.5	9
9	Crosslinking-guided geometry of a complete CXC receptor-chemokine complex and the basis of chemokine subfamily selectivity. <i>PLoS Biology</i> , 2020, 18, e3000656.	2.6	24
10	Title is missing!. , 2020, 18, e3000656.		0
11	Title is missing!. , 2020, 18, e3000656.		0
12	Title is missing!. , 2020, 18, e3000656.		0
13	Title is missing!. , 2020, 18, e3000656.		0
14	Title is missing!. , 2020, 18, e3000656.		0
15	Title is missing!. , 2020, 18, e3000656.		0
16	Kinetics of CXCL12 binding to atypical chemokine receptor 3 reveal a role for the receptor N terminus in chemokine binding. <i>Science Signaling</i> , 2019, 12, .	1.6	33
17	Leukocyte Adhesion: Reconceptualizing Chemokine Presentation by Glycosaminoglycans. <i>Trends in Immunology</i> , 2019, 40, 472-481.	2.9	80
18	CCR2-Mediated Uptake of Constitutively Produced CCL2: A Mechanism for Regulating Chemokine Levels in the Blood. <i>Journal of Immunology</i> , 2019, 203, 3157-3165.	0.4	19

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19	Solution NMR spectroscopy of GPCRs: Residue-specific labeling strategies with a focus on <sup>13</sup> C-methyl methionine labeling of the atypical chemokine receptor ACKR3. <i>Methods in Cell Biology</i> , 2019, 149, 259-288.	0.5	9
20	Intracellular Receptor Modulation: Novel Approach to Target GPCRs. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 547-559.	4.0	43
21	CXCR4-targeting nanobodies differentially inhibit CXCR4 function and HIV entry. <i>Biochemical Pharmacology</i> , 2018, 158, 402-412.	2.0	34
22	A Tyrosine Switch on NEDD4-2 E3 Ligase Transmits GPCR Inflammatory Signaling. <i>Cell Reports</i> , 2018, 24, 3312-3323.e5.	2.9	36
23	Editorial: Chemokines – beyond chemotaxis. <i>Cytokine</i> , 2018, 109, 1.	1.4	1
24	Endosomal GPCR signaling: Tyrosine Phosphorylation of a Peptide Linker in NEDD4 <sup>2</sup> Increases Ligase Activity to Promote p38 Proinflammatory Signaling. <i>FASEB Journal</i> , 2018, 32, 687.10.	0.2	0
25	Structural basis of ligand interaction with atypical chemokine receptor 3. <i>Nature Communications</i> , 2017, 8, 14135.	5.8	83
26	Differential structural remodelling of heparan sulfate by chemokines: the role of chemokine oligomerization. <i>Open Biology</i> , 2017, 7, 160286.	1.5	37
27	Structure of CC Chemokine Receptor 5 with a Potent Chemokine Antagonist Reveals Mechanisms of Chemokine Recognition and Molecular Mimicry by HIV. <i>Immunity</i> , 2017, 46, 1005-1017.e5.	6.6	148
28	What Do Structures Tell Us About Chemokine Receptor Function and Antagonism?. <i>Annual Review of Biophysics</i> , 2017, 46, 175-198.	4.5	81
29	Heparan Sulfate Microarray Reveals That Heparan Sulfate –Protein Binding Exhibits Different Ligand Requirements. <i>Journal of the American Chemical Society</i> , 2017, 139, 9534-9543.	6.6	106
30	Glycosaminoglycan Interactions with Chemokines Add Complexity to a Complex System. <i>Pharmaceuticals</i> , 2017, 10, 70.	1.7	100
31	The dependence of chemokine – glycosaminoglycan interactions on chemokine oligomerization. <i>Glycobiology</i> , 2016, 26, cwv100.	1.3	76
32	Examining Roles of Glycans in Chemokine-Mediated Dendritic – Endothelial Cell Interactions. <i>Methods in Enzymology</i> , 2016, 570, 335-355.	0.4	0
33	Production of Chemokine/Chemokine Receptor Complexes for Structural Biophysical Studies. <i>Methods in Enzymology</i> , 2016, 570, 233-260.	0.4	17
34	Structure of CC chemokine receptor 2 with orthosteric and allosteric antagonists. <i>Nature</i> , 2016, 540, 458-461.	18.7	220
35	The Anti-inflammatory Protein TSG-6 Regulates Chemokine Function by Inhibiting Chemokine/Glycosaminoglycan Interactions. <i>Journal of Biological Chemistry</i> , 2016, 291, 12627-12640.	1.6	88
36	Disulfide Trapping for Modeling and Structure Determination of Receptor. <i>Methods in Enzymology</i> , 2016, 570, 389-420.	0.4	15

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37	Signal transmission through the CXC chemokine receptor 4 (CXCR4) transmembrane helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9928-9933.	3.3	96
38	Examination of Glycosaminoglycan Binding Sites on the XCL1 Dimer. <i>Biochemistry</i> , 2016, 55, 1214-1225.	1.2	15
39	Cytokines and growth factors cross-link heparan sulfate. <i>Open Biology</i> , 2015, 5, 150046.	1.5	55
40	Crystal structure of the chemokine receptor CXCR4 in complex with a viral chemokine. <i>Science</i> , 2015, 347, 1117-1122.	6.0	325
41	Chemokine and chemokine receptor structure and interactions: implications for therapeutic strategies. <i>Immunology and Cell Biology</i> , 2015, 93, 372-383.	1.0	162
42	Interactions of the Chemokine CCL5/RANTES with Medium-Sized Chondroitin Sulfate Ligands. <i>Structure</i> , 2015, 23, 1066-1077.	1.6	37
43	Dual Targeting of the Chemokine Receptors CXCR4 and ACKR3 with Novel Engineered Chemokines. <i>Journal of Biological Chemistry</i> , 2015, 290, 22385-22397.	1.6	37
44	Experiment-Guided Molecular Modeling of Protein-Protein Complexes Involving GPCRs. <i>Methods in Molecular Biology</i> , 2015, 1335, 295-311.	0.4	11
45	A General Method for Site Specific Fluorescent Labeling of Recombinant Chemokines. <i>PLoS ONE</i> , 2014, 9, e81454.	1.1	21
46	Chemokine Cooperativity Is Caused by Competitive Glycosaminoglycan Binding. <i>Journal of Immunology</i> , 2014, 192, 3908-3914.	0.4	31
47	TSG-6 Inhibits Neutrophil Migration via Direct Interaction with the Chemokine CXCL8. <i>Journal of Immunology</i> , 2014, 192, 2177-2185.	0.4	147
48	Identification of the Pharmacophore of the CC Chemokine-binding Proteins Evasin-1 and -4 Using Phage Display. <i>Journal of Biological Chemistry</i> , 2014, 289, 31846-31855.	1.6	22
49	Stoichiometry and geometry of the CXC chemokine receptor 4 complex with CXC ligand 12: Molecular modeling and experimental validation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5363-72.	3.3	70
50	Multiple Glycosaminoglycan-binding Epitopes of Monocyte Chemoattractant Protein-3/CCL7 Enable It to Function as a Non-oligomerizing Chemokine. <i>Journal of Biological Chemistry</i> , 2014, 289, 14896-14912.	1.6	38
51	Chemokine Oligomerization in Cell Signaling and Migration. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 117, 531-578.	0.9	37
52	The Chemokine Receptor CCR1 Is Constitutively Active, Which Leads to G Protein-independent, $\beta$ 2-Arrestin-mediated Internalization. <i>Journal of Biological Chemistry</i> , 2013, 288, 32194-32210.	1.6	62
53	Sulfopeptide Probes of the CXCR4/CXCL12 Interface Reveal Oligomer-Specific Contacts and Chemokine Allostery. <i>ACS Chemical Biology</i> , 2013, 8, 1955-1963.	1.6	51
54	Chemokine Receptor Oligomerization and Allostery. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 115, 375-420.	0.9	51

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55	A Novel Approach to Quantify G-Protein-Coupled Receptor Dimerization Equilibrium Using Bioluminescence Resonance Energy Transfer. <i>Methods in Molecular Biology</i> , 2013, 1013, 93-127.	0.4	15
56	Inactivation of heparan sulfate 2-O-sulfotransferase accentuates neutrophil infiltration during acute inflammation in mice. <i>Blood</i> , 2012, 120, 1742-1751.	0.6	80
57	Alteration of heparan sulfate 2-O-sulfation in endothelial cells enhances neutrophil infiltration in mice. <i>FASEB Journal</i> , 2012, 26, 609.1.	0.2	0
58	A rapid and efficient way to obtain modified chemokines for functional and biophysical studies. <i>Cytokine</i> , 2011, 55, 168-173.	1.4	21
59	Oligomeric Structure of the Chemokine CCL5/RANTES from NMR, MS, and SAXS Data. <i>Structure</i> , 2011, 19, 1138-1148.	1.6	79
60	Specificity and cooperativity at Î²-lactamase position 104 in TEM-1/BLIP and SHV-1/BLIP interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1267-1276.	1.5	15
61	Duffy antigen inhibitors: useful therapeutics for malaria?. <i>Trends in Parasitology</i> , 2010, 26, 329-333.	1.5	6
62	Protein-protein binding affinities by pulse proteolysis: Application to TEM-1/BLIP protein complexes. <i>Protein Science</i> , 2010, 19, 1996-2000.	3.1	6
63	Elucidating the CXCL12/CXCR4 Signaling Network in Chronic Lymphocytic Leukemia through Phosphoproteomics Analysis. <i>PLoS ONE</i> , 2010, 5, e11716.	1.1	69
64	Emerging concepts and approaches for chemokine-receptor drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2010, 5, 1109-1122.	2.5	25
65	NMR Analysis of the Structure, Dynamics, and Unique Oligomerization Properties of the Chemokine CCL27. <i>Journal of Biological Chemistry</i> , 2010, 285, 14424-14437.	1.6	46
66	Characterization of the Chemokine CXCL11-Heparin Interaction Suggests Two Different Affinities for Glycosaminoglycans. <i>Journal of Biological Chemistry</i> , 2010, 285, 17713-17724.	1.6	54
67	A critical role for lymphatic endothelial heparan sulfate in lymph node metastasis. <i>Molecular Cancer</i> , 2010, 9, 316.	7.9	27
68	Structures of the CXCR4 Chemokine GPCR with Small-Molecule and Cyclic Peptide Antagonists. <i>Science</i> , 2010, 330, 1066-1071.	6.0	1,610
69	Chapter 16 Phosphoproteomic Analysis of Chemokine Signaling Networks. <i>Methods in Enzymology</i> , 2009, 460, 331-346.	0.4	13
70	Chapter 4 Interactions of Chemokines with Glycosaminoglycans. <i>Methods in Enzymology</i> , 2009, 461, 71-102.	0.4	41
71	Structural and Biochemical Characterization of the Interaction between KPC-2 Î²-Lactamase and Î²-Lactamase Inhibitor Protein. <i>Biochemistry</i> , 2009, 48, 9185-9193.	1.2	29
72	Expression, purification and in vitro functional reconstitution of the chemokine receptor CCR1. <i>Protein Expression and Purification</i> , 2009, 66, 73-81.	0.6	28

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73	Computational Redesign of the SHV-1 $\beta$ -Lactamase/ $\beta$ -Lactamase Inhibitor Protein Interface. <i>Journal of Molecular Biology</i> , 2008, 382, 1265-1275.	2.0	40
74	Chemokines and cancer: migration, intracellular signalling and intercellular communication in the microenvironment. <i>Biochemical Journal</i> , 2008, 409, 635-649.	1.7	238
75	An engineered monomer of CCL2 has anti-inflammatory properties emphasizing the importance of oligomerization for chemokine activity in vivo. <i>Journal of Leukocyte Biology</i> , 2008, 84, 1101-1108.	1.5	64
76	Inhibition of Monocyte Chemoattractant Protein-1 Ameliorates Rat Adjuvant-Induced Arthritis. <i>Journal of Immunology</i> , 2008, 180, 3447-3456.	0.4	92
77	Chemokine:Receptor Structure, Interactions, and Antagonism. <i>Annual Review of Immunology</i> , 2007, 25, 787-820.	9.5	730
78	Structure of M11L: A myxoma virus structural homolog of the apoptosis inhibitor, Bcl-2. <i>Protein Science</i> , 2007, 16, 695-703.	3.1	68
79	Regulation of Chemerin Bioactivity by Plasma Carboxypeptidase N, Carboxypeptidase B (TAFIa) and Platelets. <i>Blood</i> , 2007, 110, 408-408.	0.6	0
80	Heterodimerization of CCR2 Chemokines and Regulation by Glycosaminoglycan Binding. <i>Journal of Biological Chemistry</i> , 2006, 281, 25438-25446.	1.6	99
81	Structural and Computational Characterization of the SHV-1 $\beta$ -Lactamase/ $\beta$ -Lactamase Inhibitor Protein Interface. <i>Journal of Biological Chemistry</i> , 2006, 281, 26745-26753.	1.6	46
82	Chemokine-Glycosaminoglycan Binding. <i>Journal of Biological Chemistry</i> , 2005, 280, 32200-32208.	1.6	77
83	Chemerin Activation by Serine Proteases of the Coagulation, Fibrinolytic, and Inflammatory Cascades. <i>Journal of Biological Chemistry</i> , 2005, 280, 34661-34666.	1.6	308
84	Identification of the Glycosaminoglycan Binding Site of the CC Chemokine, MCP-1. <i>Journal of Biological Chemistry</i> , 2004, 279, 22294-22305.	1.6	181
85	Glycosaminoglycan binding and oligomerization are essential for the in vivo activity of certain chemokines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1885-1890.	3.3	713
86	The Crystal Structure of the Chemokine Domain of Fractalkine Shows a Novel Quaternary Arrangement. <i>Journal of Biological Chemistry</i> , 2000, 275, 23187-23193.	1.6	60
87	Solution Structure and Dynamics of the CX3C Chemokine Domain of Fractalkine and Its Interaction with an N-Terminal Fragment of CX3CR1. <i>Biochemistry</i> , 1999, 38, 1402-1414.	1.2	138
88	Identification of Surface Residues of the Monocyte Chemotactic Protein 1 That Affect Signaling through the Receptor CCR2. <i>Biochemistry</i> , 1999, 38, 16167-16177.	1.2	103
89	Identification of Residues in the Monocyte Chemotactic Protein-1 That Contact the MCP-1 Receptor, CCR2. <i>Biochemistry</i> , 1999, 38, 13013-13025.	1.2	141
90	From coiled coils to small globular proteins: Design of a native-like three-helix bundle. <i>Protein Science</i> , 1998, 7, 1404-1414.	3.1	132

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91	Monomeric Monocyte Chemoattractant Protein-1 (MCP-1) Binds and Activates the MCP-1 Receptor CCR2B. <i>Journal of Biological Chemistry</i> , 1998, 273, 33157-33165.	1.6	183
92	De novo design of the hydrophobic core of ubiquitin. <i>Protein Science</i> , 1997, 6, 1167-1178.	3.1	164
93	Heteronuclear (1H,13C,15N) NMR Assignments and Solution Structure of the Monocyte Chemoattractant Protein-1 (MCP-1) Dimer. <i>Biochemistry</i> , 1996, 35, 6569-6584.	1.2	162
94	De novo design of the hydrophobic cores of proteins. <i>Protein Science</i> , 1995, 4, 2006-2018.	3.1	275