Robert V Stahelin

List of Publications by Citations

151 papers	6,217 citations	47 h-index	75 g-index
172 ext. papers	7,064 ext. citations	5.1 avg, IF	6.01 L-index

#	Paper	IF	Citations
151	Membrane-protein interactions in cell signaling and membrane trafficking. *Annual Review of Biophysics and Biomolecular Structure*, **2005**, 34, 119-51		469
150	A molecular mechanism of artemisinin resistance in Plasmodium falciparum malaria. *Nature*, **2015**, 520, 683-7	50.4	365
149	Binding of the PX domain of p47(phox) to phosphatidylinositol 3,4-bisphosphate and phosphatidic acid is masked by an intramolecular interaction. *EMBO Journal*, **2002**, 21, 5057-68	13	268
148	Membrane binding and subcellular targeting of C2 domains. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 838-49	5	207
147	Sphingosine analogue drug FTY720 targets I2PP2A/SET and mediates lung tumour suppression via activation of PP2A-RIPK1-dependent necroptosis. *EMBO Molecular Medicine*, **2013**, 5, 105-21	12	181
146	Differential roles of ionic, aliphatic, and aromatic residues in membrane-protein interactions: a surface plasmon resonance study on phospholipases A2. *Biochemistry*, **2001**, 40, 4672-8	3.2	150
145	Contrasting membrane interaction mechanisms of AP180 N-terminal homology (ANTH) and epsin N-terminal homology (ENTH) domains. *Journal of Biological Chemistry*, **2003**, 278, 28993-9	5.4	142
144	Phosphatidylinositol 3-phosphate induces the membrane penetration of the FYVE domains of Vps27p and Hrs. *Journal of Biological Chemistry*, **2002**, 277, 26379-88	5.4	130
143	Membrane binding assays for peripheral proteins. *Analytical Biochemistry*, **2001**, 296, 153-61	3.1	116
142	Membrane binding mechanisms of the PX domains of NADPH oxidase p40phox and p47phox. *Journal of Biological Chemistry*, **2003**, 278, 14469-79	5.4	115
141	The mechanism of membrane targeting of human sphingosine kinase 1. *Journal of Biological Chemistry*, **2005**, 280, 43030-8	5.4	115
140	Mechanism of diacylglycerol-induced membrane targeting and activation of protein kinase Cdelta. *Journal of Biological Chemistry*, **2004**, 279, 29501-12	5.4	110
139	Activation mechanisms of conventional protein kinase C isoforms are determined by the ligand affinity and conformational flexibility of their C1 domains. *Journal of Biological Chemistry*, **2003**, 278, 46886-94	5.4	110
138	The molecular basis of differential subcellular localization of C2 domains of protein kinase C-alpha and group IVa cytosolic phospholipase A2. *Journal of Biological Chemistry*, **2003**, 278, 12452-60	5.4	109
137	Roles of ionic residues of the C1 domain in protein kinase C-alpha activation and the origin of phosphatidylserine specificity. *Journal of Biological Chemistry*, **2001**, 276, 4218-26	5.4	104
136	Endoplasmic reticulum PI(3)P lipid binding targets malaria proteins to the host cell. *Cell*, **2012**, 148, 201-12	28.2	98
135	Ceramide 1-phosphate acts as a positive allosteric activator of group IVA cytosolic phospholipase A2 alpha and enhances the interaction of the enzyme with phosphatidylcholine. *Journal of Biological Chemistry*, **2005**, 280, 17601-7	5.4	93

134	Lipid binding domains: more than simple lipid effectors. *Journal of Lipid Research*, **2009**, 50 Suppl, S299-304	6.9	91
133	Ceramide-1-phosphate binds group IVA cytosolic phospholipase a2 via a novel site in the C2 domain. *Journal of Biological Chemistry*, **2007**, 282, 20467-74	5.4	91
132	Diacylglycerol-induced membrane targeting and activation of protein kinase Cepsilon: mechanistic differences between protein kinases Cdelta and Cepsilon. *Journal of Biological Chemistry*, **2005**, 280, 19784-93	5.4	90
131	Binding of the sphingolipid S1P to hTERT stabilizes telomerase at the nuclear periphery by allosterically mimicking protein phosphorylation. *Science Signaling*, **2015**, 8, ra58	8.8	84
130	Cellular and molecular interactions of phosphoinositides and peripheral proteins. *Chemistry and Physics of Lipids*, **2014**, 182, 3-18	3.7	79
129	Ceramide 1-phosphate is required for the translocation of group IVA cytosolic phospholipase A2 and prostaglandin synthesis. *Journal of Biological Chemistry*, **2009**, 284, 26897-907	5.4	78
128	Mechanism of membrane binding of the phospholipase D1 PX domain. *Journal of Biological Chemistry*, **2004**, 279, 54918-26	5.4	78
127	SARS-CoV-2 Viral Budding and Entry can be Modeled Using BSL-2 Level Virus-Like Particles. *FASEB Journal*, **2021**, 35,	0.9	78
126	Ceramide kinase uses ceramide provided by ceramide transport protein: localization to organelles of eicosanoid synthesis. *Journal of Lipid Research*, **2007**, 48, 1293-304	6.3	74
125	Differential roles of phosphatidylserine, PtdIns(4,5)P2, and PtdIns(3,4,5)P3 in plasma membrane targeting of C2 domains. Molecular dynamics simulation, membrane binding, and cell translocation studies of the PKCalpha C2 domain. *Journal of Biological Chemistry*, **2008**, 283, 26047-58	5.4	73
124	Selection of DNA ligands for protein kinase C-delta. *Chemical Communications*, **2006**, 3229-31	5.8	65
123	Molecular basis of phosphatidylinositol 4-phosphate and ARF1 GTPase recognition by the FAPP1 pleckstrin homology (PH) domain. *Journal of Biological Chemistry*, **2011**, 286, 18650-7	5.4	62
122	Host Cell Plasma Membrane Phosphatidylserine Regulates the Assembly and Budding of Ebola Virus. *Journal of Virology*, **2015**, 89, 9440-53	6.6	59
121	Structural and membrane binding analysis of the Phox homology domain of phosphoinositide 3-kinase-C2alpha. *Journal of Biological Chemistry*, **2006**, 281, 39396-406	5.4	58
120	The Ebola virus matrix protein penetrates into the plasma membrane: a key step in viral protein 40 (VP40) oligomerization and viral egress. *Journal of Biological Chemistry*, **2013**, 288, 5779-89	5.4	57
119	Mechanism of diacylglycerol-induced membrane targeting and activation of protein kinase Ctheta. *Journal of Biological Chemistry*, **2007**, 282, 21467-76	5.4	57
118	Computer modeling of the membrane interaction of FYVE domains. *Journal of Molecular Biology*, **2003**, 328, 721-36	6.5	57
117	Bright red-emitting pyrene derivatives with a large Stokes shift for nucleus staining. *Chemical Communications*, **2017**, 53, 5886-5889	5.8	56

116	Remodeling of the malaria parasite and host human red cell by vesicle amplification that induces artemisinin resistance. *Blood*, **2018**, 131, 1234-1247	2.2	55
115	Investigation of Ebola VP40 assembly and oligomerization in live cells using number and brightness analysis. *Biophysical Journal*, **2012**, 102, 2517-25	2.9	52
114	Surface plasmon resonance: a useful technique for cell biologists to characterize biomolecular interactions. *Molecular Biology of the Cell*, **2013**, 24, 883-6	3.5	52
113	Roles of calcium ions in the membrane binding of C2 domains. *Biochemical Journal*, **2001**, 359, 679-685	3.8	52
112	The Ebola virus matrix protein deeply penetrates the plasma membrane: an important step in viral egress. *Biophysical Journal*, **2013**, 104, 1940-9	2.9	51
111	Structural bioinformatics prediction of membrane-binding proteins. *Journal of Molecular Biology*, **2006**, 359, 486-95	6.5	51
110	Biophysical and computational studies of membrane penetration by the GRP1 pleckstrin homology domain. *Structure*, **2011**, 19, 1338-46	5.2	50
109	X-ray reflectivity studies of cPLA2{alpha}-C2 domains adsorbed onto Langmuir monolayers of SOPC. *Biophysical Journal*, **2005**, 89, 1861-73	2.9	50
108	The molecular basis of the differential subcellular localization of FYVE domains. *Journal of Biological Chemistry*, **2004**, 279, 53818-27	5.4	50
107	Ceramide kinase regulates the production of tumor necrosis factor [(TNF)] via inhibition of TNF-converting enzyme. *Journal of Biological Chemistry*, **2011**, 286, 42808-17	5.4	49
106	Structural and membrane binding analysis of the Phox homology domain of Bem1p: basis of phosphatidylinositol 4-phosphate specificity. *Journal of Biological Chemistry*, **2007**, 282, 25737-47	5.4	48
105	The Ebola Virus matrix protein, VP40, requires phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2) for extensive oligomerization at the plasma membrane and viral egress. *Scientific Reports*, **2016**, 6, 19125	4.9	47
104	Roles of calcium ions in the membrane binding of C2 domains. *Biochemical Journal*, **2001**, 359, 679-85	3.8	47
103	Membrane insertion of the FYVE domain is modulated by pH. *Proteins: Structure, Function and Bioinformatics*, **2009**, 76, 852-60	4.2	45
102	The origin of C1A-C2 interdomain interactions in protein kinase Calpha. *Journal of Biological Chemistry*, **2005**, 280, 36452-63	5.4	45
101	The Ebola virus matrix protein VP40 selectively induces vesiculation from phosphatidylserine-enriched membranes. *Journal of Biological Chemistry*, **2014**, 289, 33590-7	5.4	42
100	Amot recognizes a juxtanuclear endocytic recycling compartment via a novel lipid binding domain. *Journal of Biological Chemistry*, **2010**, 285, 12308-20	5.4	42
99	Molecular mechanism of membrane targeting by the GRP1 PH domain. *Journal of Lipid Research*, **2008**, 49, 1807-15	6.3	42

98	Membrane binding and bending in Ebola VP40 assembly and egress. *Frontiers in Microbiology*, **2014**, 5, 300	5.7	39
97	Molecular mechanism of membrane docking by the Vam7p PX domain. *Journal of Biological Chemistry*, **2006**, 281, 37091-101	5.4	39
96	Anionic lipids activate group IVA cytosolic phospholipase A2 via distinct and separate mechanisms. *Journal of Lipid Research*, **2007**, 48, 2701-8	6.3	39
95	pH-dependent binding of the Epsin ENTH domain and the AP180 ANTH domain to PI(4,5)P2-containing bilayers. *Journal of Molecular Biology*, **2007**, 373, 412-23	6.5	38
94	Could the Ebola virus matrix protein VP40 be a drug target?. *Expert Opinion on Therapeutic Targets*, **2014**, 18, 115-20	6.4	37
93	Ceramide 1-phosphate mediates endothelial cell invasion via the annexin a2-p11 heterotetrameric protein complex. *Journal of Biological Chemistry*, **2013**, 288, 19726-38	5.4	37
92	Single-particle tracking demonstrates that actin coordinates the movement of the Ebola virus matrix protein. *Biophysical Journal*, **2012**, 103, L41-3	2.9	36
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90	Emerging methodologies to investigate lipid-protein interactions. *Integrative Biology (United Kingdom)*, **2012**, 4, 247-58	3.7	33
89	p47phox Phox homology domain regulates plasma membrane but not phagosome neutrophil NADPH oxidase activation. *Journal of Biological Chemistry*, **2010**, 285, 35169-79	5.4	33
88	A new model of interfacial kinetics for phospholipases. *Biophysical Journal*, **2013**, 105, 1-2	2.9	32
87	SH3 Domain-Containing Protein 2 Plays a Crucial Role at the Step of Membrane Tubulation during Cell Plate Formation. *Plant Cell*, **2017**, 29, 1388-1405	11.6	30
86	The molecular basis of ceramide-1-phosphate recognition by C2 domains. *Journal of Lipid Research*, **2013**, 54, 636-648	6.3	30
85	Synthesis and convenient functionalization of azide-labeled diacylglycerol analogues for modular access to biologically active lipid probes. *Bioconjugate Chemistry*, **2008**, 19, 1855-63	6.3	30
84	SARS-CoV-2 viral budding and entry can be modeled using BSL-2 level virus-like particles. *Journal of Biological Chemistry*, **2021**, 296, 100103	5.4	30
83	Crystal Structure of Marburg Virus VP40 Reveals a Broad, Basic Patch for Matrix Assembly and a Requirement of the N-Terminal Domain for Immunosuppression. *Journal of Virology*, **2016**, 90, 1839-48	6.6	27
82	Non-Peptidic Cell-Penetrating Motifs for Mitochondrion-Specific Cargo Delivery. *Angewandte Chemie - International Edition*, **2018**, 57, 17183-17188	16.4	26
81	A loop region in the N-terminal domain of Ebola virus VP40 is important in viral assembly, budding, and egress. *Viruses*, **2014**, 6, 3837-54	6.2	25

80	Protein kinase C C2 domain is a phosphotyrosine binding module that plays a key role in its activation. *Journal of Biological Chemistry*, **2012**, 287, 30518-28	5.4	25
79	Cellular membranes and lipid-binding domains as attractive targets for drug development. *Current Drug Targets*, **2008**, 9, 603-13	3	25
78	Orientation and penetration depth of monolayer-bound p40phox-PX. *Biochemistry*, **2006**, 45, 13566-75	3.2	24
77	Detection of lipid-induced structural changes of the Marburg virus matrix protein VP40 using hydrogen/deuterium exchange-mass spectrometry. *Journal of Biological Chemistry*, **2017**, 292, 6108-6122	5.4	22
76	Red-emitting pyrene-benzothiazolium: unexpected selectivity to lysosomes for real-time cell imaging without alkalinizing effect. *Chemical Communications*, **2019**, 55, 3469-3472	5.8	21
75	Modular synthesis of biologically active phosphatidic acid probes using click chemistry. *Molecular BioSystems*, **2009**, 5, 962-72		21
74	A cationic, C-terminal patch and structural rearrangements in Ebola virus matrix VP40 protein control its interactions with phosphatidylserine. *Journal of Biological Chemistry*, **2018**, 293, 3335-3349	5.4	20
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72	Development of a biochemistry laboratory course with a project-oriented goal. *Biochemistry and Molecular Biology Education*, **2003**, 31, 106-112	1.3	19
71	Using Surface Plasmon Resonance to Quantitatively Assess Lipid-Protein Interactions. *Methods in Molecular Biology*, **2016**, 1376, 141-53	1.4	18
70	Investigation of the Lipid Binding Properties of the Marburg Virus Matrix Protein VP40. *Journal of Virology*, **2015**, 90, 3074-85	6.6	17
69	Genome-wide structural analysis reveals novel membrane binding properties of AP180 N-terminal homology (ANTH) domains. *Journal of Biological Chemistry*, **2011**, 286, 34155-63	5.4	17
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67	Host targeting of virulence determinants and phosphoinositides in blood stage malaria parasites. *Trends in Parasitology*, **2012**, 28, 555-62	6.4	16
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65	C2 domain membrane penetration by group IVA cytosolic phospholipase A induces membrane curvature changes. *Journal of Lipid Research*, **2012**, 53, 2656-66	6.3	16
64	Interdomain salt-bridges in the Ebola virus protein VP40 and their role in domain association and plasma membrane localization. *Protein Science*, **2016**, 25, 1648-58	6.3	16
63	Pancreatic ductal adenocarcinoma cell secreted extracellular vesicles containing ceramide-1-phosphate promote pancreatic cancer stem cell motility. *Biochemical Pharmacology*, **2018**, 156, 458-466	6	16

62	Graphene-VP40 interactions and potential disruption of the Ebola virus matrix filaments. *Biochemical and Biophysical Research Communications*, **2017**, 493, 176-181	3.4	14
61	Receptor-interacting Ser/Thr kinase 1 (RIPK1) and myosin IIA-dependent ceramidosomes form membrane pores that mediate blebbing and necroptosis. *Journal of Biological Chemistry*, **2019**, 294, 502-519	5.4	13
60	Investigation of the phosphatidylserine binding properties of the lipid biosensor, Lactadherin C2 (LactC2), in different membrane environments. *Journal of Bioenergetics and Biomembranes*, **2018**, 50, 1-10	3.7	12
59	Bright red-emitting highly reliable styryl probe with large Stokes shift for visualizing mitochondria in live cells under wash-free conditions. *Sensors and Actuators B: Chemical*, **2019**, 285, 76-83	8.5	12
58	Structural Effect on the Cellular Selectivity of an NIR-Emitting Cyanine Probe: From Lysosome to Simultaneous Nucleus and Mitochondria Selectivity with Potential for Monitoring Mitochondria Dysfunction in Cells.. *ACS Applied Bio Materials*, **2019**, 2, 5174-5181	4.1	11
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56	Notes and tips for improving quality of lipid-protein overlay assays. *Analytical Biochemistry*, **2017**, 516, 9-12	3.1	11
55	A pan-apicomplexan phosphoinositide-binding protein acts in malarial microneme exocytosis. *EMBO Reports*, **2019**, 20,	6.5	10
54	Drp1 Tubulates the ER in a GTPase-Independent Manner. *Molecular Cell*, **2020**, 80, 621-632.e6	17.6	10
53	Plasma membrane association facilitates conformational changes in the Marburg virus protein VP40 dimer. *RSC Advances*, **2017**, 7, 22741-22748	3.7	9
52	Membrane Localization of HspA1A, a Stress Inducible 70-kDa Heat-Shock Protein, Depends on Its Interaction with Intracellular Phosphatidylserine. *Biomolecules*, **2019**, 9,	5.9	9
51	Molecular Analysis of Membrane Targeting by the C2 Domain of the E3 Ubiquitin Ligase Smurf1. *Biomolecules*, **2020**, 10,	5.9	9
50	Effects of Manganese Porphyrins on Cellular Sulfur Metabolism. *Molecules*, **2020**, 25,	4.8	8
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48	A pyrene-based two-photon excitable fluorescent probe to visualize nuclei in live cells. *Photochemical and Photobiological Sciences*, **2020**, 19, 1152-1159	4.2	7
47	Monitoring peripheral protein oligomerization on biological membranes. *Methods in Cell Biology*, **2013**, 117, 359-71	1.8	7
46	Metabolically stabilized derivatives of phosphatidylinositol 4-phosphate: synthesis and applications. *Chemistry and Biology*, **2011**, 18, 1312-9		7
45	Bacterial expression and purification of C1 and C2 domains of protein kinase C isoforms. *Methods in Molecular Biology*, **2003**, 233, 291-8	1.4	7

44	A Conserved Tryptophan in the Ebola Virus Matrix Protein C-Terminal Domain Is Required for Efficient Virus-Like Particle Formation. *Pathogens*, **2020**, 9,	4.5	6
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42	The first DEP domain of the RhoGEF P-Rex1 autoinhibits activity and contributes to membrane binding. *Journal of Biological Chemistry*, **2020**, 295, 12635-12647	5.4	4
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38	Mutation of Hydrophobic Residues in the C-Terminal Domain of the Marburg Virus Matrix Protein VP40 Disrupts Trafficking to the Plasma Membrane. *Viruses*, **2020**, 12,	6.2	3
37	The Cytosolic Phospholipase A N-terminal C2 Domain Binds and Oligomerizes on Membranes with Positive Curvature. *Biomolecules*, **2020**, 10,	5.9	3
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35	Phospholipid Catabolism **2016**, 237-257		3
34	Conformational Flexibility of the Protein-Protein Interfaces of the Ebola Virus VP40 Structural Matrix Filament. *Journal of Physical Chemistry B*, **2019**, 123, 9045-9053	3.4	3
33	Time to Fold: Tom1 Uses New Tricks to Regulate Lipid Binding of Tollip. *Structure*, **2015**, 23, 1781-1782	5.2	2
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31	Lipid-specific oligomerization of the Marburg virus matrix protein VP40 is regulated by two distinct interfaces for virion assembly. *Journal of Biological Chemistry*, **2021**, 296, 100796	5.4	2
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29	Ready, set, go! How protein kinase C manages dynamic signaling. *Chemistry and Biology*, **2014**, 21, 433-434		1
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25	Cryofixation of Inactivated Hantavirus-Infected Cells as a Method for Obtaining High-Quality Ultrastructural Preservation for Electron Microscopic Studies. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 580339	5.9	1
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23	Live-Cell Imaging of Ebola Virus Matrix Protein VP40. *FASEB Journal*, **2015**, 29, 886.4	0.9	0
22	Mechanisms of phosphatidylserine influence on viral production: a computational model of Ebola virus matrix protein assembly.. *Journal of Biological Chemistry*, **2022**, 102025	5.4	0
21	The unmasking of the lipid binding face of sphingosine kinase 1. *Journal of Lipid Research*, **2018**, 59, 401-403	6.3	
20	The Ebola Virus Matrix Protein VP40 Interacts With Several Host Protein Networks to Facilitate Viral Replication. *Current Clinical Microbiology Reports*, **2015**, 2, 137-141	3.1	
19	In vitro and Cellular Membrane-binding Mechanisms of Membrane-targeting Domains **2006**, 367-401		
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8	Elucidation of the cytosolic phospholipase A2-□ceramide-1-phosphate binding site. *FASEB Journal*, **2011**, 25, 939.4	0.9
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4	Lipid binding properties of Ebola virus matrix protein VP40. *FASEB Journal*, **2013**, 27, 1021.9	0.9
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1	Negative-sense RNA viruses: An underexplored platform for examining virus-host lipid interactions. *Molecular Biology of the Cell*, **2021**, 32, pe1	3.5