Timothy A Springer

List of Publications by Year in Descending Order

302 papers	58,455 citations	107 h-index	240 g-index
331 ext. papers	61,957 ext. citations	14.8 avg, IF	7.97 L-index

#	Paper	IF	Citations
302	Regulation by metal ions and the ADMIDAS of integrin 5□1 conformational states and intrinsic affinities.. *Molecular Biology of the Cell*, **2022**, mbcE21110536	3.5	0
301	Protection of the prodomain 4-helix correlates with latency in the transforming growth factor- family.. *Journal of Molecular Biology*, **2022**, 434, 167439	6.5	1
300	Loss of LRRC33-Dependent TGF1 Activation Enhances Antitumor Immunity and Checkpoint Blockade Therapy.. *Cancer Immunology Research*, **2022**, 10, 453-467	12.5	0
299	Complement Receptor 3 Forms a Compact High-Affinity Complex with iC3b. *Journal of Immunology*, **2021**,	5.3	5
298	Disulfide exchange in multimerization of von Willebrand factor and gel-forming mucins. *Blood*, **2021**, 137, 1263-1267	2.2	3
297	Structural basis of malaria transmission blockade by a monoclonal antibody to gamete fusogen HAP2.. *ELife*, **2021**, 10,	8.9	1
296	Single-molecule imaging of von Willebrand factor reveals tension-dependent self-association. *Blood*, **2021**, 138, 2425-2434	2.2	1
295	Design and assessment of TRAP-CSP fusion antigens as effective malaria vaccines. *PLoS ONE*, **2020**, 15, e0216260	3.7	4
294	Evolutionarily distant I domains can functionally replace the essential ligand-binding domain of TRAP. *ELife*, **2020**, 9,	8.9	7
293	CD11c regulates hematopoietic stem and progenitor cells under stress. *Blood Advances*, **2020**, 4, 6086-6097	7.9	3
292	Specific high affinity interaction of Helicobacter´pylori CagL with integrin promotes type IV secretion of CagA into human cells. *FEBS Journal*, **2019**, 286, 3980-3997	5.7	9
291	Electrostatic Steering Enables Flow-Activated Von Willebrand Factor to Bind Platelet Glycoprotein, Revealed by Single-Molecule Stretching and Imaging. *Journal of Molecular Biology*, **2019**, 431, 1380-1396	6.5	10
290	General structural features that regulate integrin affinity revealed by atypical V8. *Nature Communications*, **2019**, 10, 5481	17.4	13
289	A Tandem Mass Spectrometry Sequence Database Search Method for Identification of O-Fucosylated Proteins by Mass Spectrometry. *Journal of Proteome Research*, **2019**, 18, 652-663	5.6	11
288	The von Willebrand factor DQ3 assembly and structural principles for factor VIII binding and concatemer biogenesis. *Blood*, **2019**, 133, 1523-1533	2.2	33
287	Measuring Integrin Conformational Change on the Cell Surface with Super-Resolution Microscopy. *Cell Reports*, **2018**, 22, 1903-1912	10.6	38
286	High integrin affinity reached by hybrid domain deletion slows ligand-binding on-rate. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1429-E1436	11.5	7

285	Tolloid cleavage activates latent GDF8 by priming the pro-complex for dissociation. *EMBO Journal*, **2018**, 37, 384-397	13	21
284	Ligand- and cation-induced structural alterations of the leukocyte integrin LFA-1. *Journal of Biological Chemistry*, **2018**, 293, 6565-6577	5.4	9
283	A Milieu Molecule for TGF-Required for Microglia Function in the Nervous System. *Cell*, **2018**, 174, 156-171.e16	36.2	61
282	Dendritic cell-expressed common gamma-chain recruits IL-15 for trans-presentation at the murine immunological synapse. *Wellcome Open Research*, **2018**, 3, 84	4.8	6
281	Fusion surface structure, function, and dynamics of gamete fusogen HAP2. *ELife*, **2018**, 7,	8.9	20
280	Dendritic cell-expressed common gamma-chain recruits IL-15 for trans-presentation at the murine immunological synapse. *Wellcome Open Research*, **2018**, 3, 84	4.8	4
279	Congenital X-Linked Myelodysplasia with Tetraploidy Is Associated with De Novo Germline C-Terminal Mutation of SEPT6, a Septin Filament Protein. *Blood*, **2018**, 132, 644-644	2.2	
278	Prodomain-growth factor swapping in the structure of pro-TGF-1. *Journal of Biological Chemistry*, **2018**, 293, 1579-1589	5.4	22
277	Energy landscape differences among integrins establish the framework for understanding activation. *Journal of Cell Biology*, **2018**, 217, 397-412	7.3	30
276	Force interacts with macromolecular structure in activation of TGF- *Nature*, **2017**, 542, 55-59	50.4	138
275	Sorting zebrafish thrombocyte lineage cells with a Cd41 monoclonal antibody enriches hematopoietic stem cell activity. *Blood*, **2017**, 129, 1394-1397	2.2	6
274	Conformational equilibria and intrinsic affinities define integrin activation. *EMBO Journal*, **2017**, 36, 629-645	9.4	80
273	Integrin extension enables ultrasensitive regulation by cytoskeletal force. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4685-4690	11.5	83
272	Atypical interactions of integrin with pro-TGF-1. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4168-E4174	11.5	27
271	Rules of engagement between 6 integrin and foot-and-mouth disease virus. *Nature Communications*, **2017**, 8, 15408	17.4	54
270	Distinct recognition of complement iC3b by integrins and *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3403-3408	11.5	30
269	Actin retrograde flow actively aligns and orients ligand-engaged integrins in focal adhesions. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10648-10653	11.5	55
268	Flow-induced elongation of von Willebrand factor precedes tension-dependent activation. *Nature Communications*, **2017**, 8, 324	17.4	88

267	Direction of actin flow dictates integrin LFA-1 orientation during leukocyte migration. *Nature Communications*, **2017**, 8, 2047	17.4	55
266	Structural Biology and Evolution of the TGF- Family. *Cold Spring Harbor Perspectives in Biology*, **2016**, 8,	10.2	156
265	Coordinated integrin activation by actin-dependent force during T-cell migration. *Nature Communications*, **2016**, 7, 13119	17.4	111
264	Relating conformation to function in integrin 51. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3872-81	11.5	75
263	-Subunit Binding Is Sufficient for Ligands to Open the Integrin Ib3 Headpiece. *Journal of Biological Chemistry*, **2016**, 291, 4537-46	5.4	18
262	Interrogating the Plasmodium Sporozoite Surface: Identification of Surface-Exposed Proteins and Demonstration of Glycosylation on CSP and TRAP by Mass Spectrometry-Based Proteomics. *PLoS Pathogens*, **2016**, 12, e1005606	7.6	105
261	Cytoskeletal perturbation leads to platelet dysfunction and thrombocytopenia in variant forms of Glanzmann thrombasthenia. *Haematologica*, **2016**, 101, 46-56	6.6	40
260	Leukocyte integrin 2 headpiece structures: The domain, the pocket for the internal ligand, and concerted movements of its loops. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2940-5	11.5	27
259	Force-induced on-rate switching and modulation by mutations in gain-of-function von Willebrand diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4648-53	11.5	26
258	Structure of bone morphogenetic protein 9 procomplex. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3710-5	11.5	76
257	Structural basis for quinine-dependent antibody binding to platelet integrin Ib3. *Blood*, **2015**, 126, 2138-45	2.2	24
256	Carbon nanotube-assisted optical activation of TGF- signalling by near-infrared light. *Nature Nanotechnology*, **2015**, 10, 465-71	28.7	50
255	Application of encoded library technology (ELT) to a protein-protein interaction target: discovery of a potent class of integrin lymphocyte function-associated antigen 1 (LFA-1) antagonists. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 2353-65	3.4	77
254	Highly reinforced structure of a C-terminal dimerization domain in von Willebrand factor. *Blood*, **2014**, 123, 1785-93	2.2	45
253	von Willebrand factor, Jedi knight of the bloodstream. *Blood*, **2014**, 124, 1412-25	2.2	248
252	Structural basis of regulation of von Willebrand factor binding to glycoprotein Ib. *Journal of Biological Chemistry*, **2014**, 289, 5565-79	5.4	49
251	Structures of the Toxoplasma gliding motility adhesin. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4862-7	11.5	26
250	Structural determinants of integrin -subunit specificity for latent TGF- 1. *Nature Structural and Molecular Biology*, **2014**, 21, 1091-6	17.6	82

249	Metal ion and ligand binding of integrin 51. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17863-8	11.5	55
248	How natalizumab binds and antagonizes 4 integrins. *Journal of Biological Chemistry*, **2013**, 288, 32314-32325	5.4	47
247	Domain 1 of mucosal addressin cell adhesion molecule has an I1-set fold and a flexible integrin-binding loop. *Journal of Biological Chemistry*, **2013**, 288, 6284-94	5.4	5
246	Release of cellular tension signals self-restorative ventral lamellipodia to heal barrier micro-wounds. *Journal of Cell Biology*, **2013**, 201, 449-65	7.3	67
245	Complete integrin headpiece opening in eight steps. *Journal of Cell Biology*, **2013**, 201, 1053-68	7.3	147
244	An internal ligand-bound, metastable state of a leukocyte integrin, X2. *Journal of Cell Biology*, **2013**, 203, 629-42	7.3	57
243	Mechanisms by which von Willebrand disease mutations destabilize the A2 domain. *Journal of Biological Chemistry*, **2013**, 288, 6317-24	5.4	15
242	Mechanisms for kinase-mediated dimerization of the epidermal growth factor receptor. *Journal of Biological Chemistry*, **2012**, 287, 38244-53	5.4	59
241	Structural specializations of (4)(7), an integrin that mediates rolling adhesion. *Journal of Cell Biology*, **2012**, 196, 131-46	7.3	73
240	(V)(3) integrin crystal structures and their functional implications. *Biochemistry*, **2012**, 51, 8814-28	3.2	54
239	Sequence and structure relationships within von Willebrand factor. *Blood*, **2012**, 120, 449-58	2.2	200
238	Antigen recognition is facilitated by invadosome-like protrusions formed by memory/effector T cells. *Journal of Immunology*, **2012**, 188, 3686-99	5.3	108
237	Integrin inside-out signaling and the immunological synapse. *Current Opinion in Cell Biology*, **2012**, 24, 107-15	9	261
236	GARP regulates the bioavailability and activation of TGF *Molecular Biology of the Cell*, **2012**, 23, 1129-39	3.5	112
235	Molecular basis for complement recognition by integrin X2. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4586-91	11.5	43
234	Unexpected fold in the circumsporozoite protein target of malaria vaccines. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 7817-22	11.5	69
233	Calcium stabilizes the von Willebrand factor A2 domain by promoting refolding. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 3742-7	11.5	45
232	The RGD finger of Del-1 is a unique structural feature critical for integrin binding. *FASEB Journal*, **2012**, 26, 3412-20	0.9	27

231	Shape change in the receptor for gliding motility in Plasmodium sporozoites. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 21420-5	11.5	52
230	Structure-guided design of a high-affinity platelet integrin IIb3 receptor antagonist that disrupts Mg2+ binding to the MIDAS. *Science Translational Medicine*, **2012**, 4, 125ra32	17.5	67
229	Simultaneous visualization of the extracellular and cytoplasmic domains of the epidermal growth factor receptor. *Nature Structural and Molecular Biology*, **2011**, 18, 984-9	17.6	101
228	Latent TGF-structure and activation. *Nature*, **2011**, 474, 343-9	50.4	628
227	A pH-regulated dimeric bouquet in the structure of von Willebrand factor. *EMBO Journal*, **2011**, 30, 4098-111	13	76
226	A novel calcium-binding site of von Willebrand factor A2 domain regulates its cleavage by ADAMTS13. *Blood*, **2011**, 117, 4623-31	2.2	41
225	Intact alphaIIbbeta3 integrin is extended after activation as measured by solution X-ray scattering and electron microscopy. *Journal of Biological Chemistry*, **2011**, 286, 35218-26	5.4	51
224	Regulation of integrin affinity on cell surfaces. *EMBO Journal*, **2011**, 30, 4712-27	13	129
223	Tests of integrin transmembrane domain homo-oligomerization during integrin ligand binding and signaling. *Journal of Biological Chemistry*, **2011**, 286, 1860-7	5.4	16
222	The C-terminal domain linker as a critical structural element in the conformational activation of integrins. *Journal of Biological Chemistry*, **2011**, 286, 42115-42122	5.4	11
221	TESTS OF INTEGRIN TRANSMEMBRANE DOMAIN HOMO-OLIGOMERIZATION DURING INTEGRIN LIGAND BINDING AND SIGNALING. *FASEB Journal*, **2011**, 25, 961.5	0.9	
220	Structure-Guided Design of A Novel High Affinity Integrin IIb3 Receptor Antagonist (RUC-2) That Displaces Mg2+ From the 3 MIDAS,. *Blood*, **2011**, 118, 3255-3255	2.2	
219	A human intercellular adhesion molecule (ICAM-1) distinct from LFA-1. J. Immunol. 1986. 137: 1270-1274. *Journal of Immunology*, **2011**, 186, 5034-8	5.3	2
218	Structure of an integrin with an alphaI domain, complement receptor type 4. *EMBO Journal*, **2010**, 29, 666-79	13	138
217	A mechanically stabilized receptor-ligand flex-bond important in the vasculature. *Nature*, **2010**, 466, 992-5	50.4	209
216	Engineering of single Ig superfamily domain of intercellular adhesion molecule 1 (ICAM-1) for native fold and function. *Journal of Biological Chemistry*, **2010**, 285, 15906-15	5.4	12
215	Structural evidence for loose linkage between ligand binding and kinase activation in the epidermal growth factor receptor. *Molecular and Cellular Biology*, **2010**, 30, 5432-43	4.8	144
214	Cation-pi interaction regulates ligand-binding affinity and signaling of integrin alpha4beta7. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 21388-93	11.5	20

213	Modulation of integrin activation by an entropic spring in the {beta}-knee. *Journal of Biological Chemistry*, **2010**, 285, 32954-32966	5.4	26
212	Requirement of open headpiece conformation for activation of leukocyte integrin alphaXbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14727-32	11.5	88
211	Closed headpiece of integrin IIb3 and its complex with an IIb3-specific antagonist that does not induce opening. *Blood*, **2010**, 116, 5050-9	2.2	85
210	Rationally designed integrin beta3 mutants stabilized in the high affinity conformation. *Journal of Biological Chemistry*, **2009**, 284, 3917-24	5.4	32
209	Transmission of allostery through the lectin domain in selectin-mediated cell adhesion. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 85-90	11.5	54
208	Structural basis for selectin mechanochemistry. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 91-6	11.5	69
207	The novel S527F mutation in the integrin beta3 chain induces a high affinity alphaIIbbeta3 receptor by hindering adoption of the bent conformation. *Journal of Biological Chemistry*, **2009**, 284, 14914-20	5.4	16
206	Structural basis of activation-dependent binding of ligand-mimetic antibody AL-57 to integrin LFA-1. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18345-50	11.5	18
205	Structural specializations of A2, a force-sensing domain in the ultralarge vascular protein von Willebrand factor. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 9226-31	11.5	153
204	The structure of a receptor with two associating transmembrane domains on the cell surface: integrin alphaIIbbeta3. *Molecular Cell*, **2009**, 34, 234-49	17.6	127
203	Mechanoenzymatic cleavage of the ultralarge vascular protein von Willebrand factor. *Science*, **2009**, 324, 1330-4	33.3	410
202	Structural, Functional, and Dynamic Characterization of the Binding Site of RUC-1, a Novel IIb-Specific Inhibitor of Integrin IIb3.. *Blood*, **2009**, 114, 151-151	2.2	1
201	Trans-cellular migration: cell-cell contacts get intimate. *Current Opinion in Cell Biology*, **2008**, 20, 533-40	9	144
200	An unusual allosteric mobility of the C-terminal helix of a high-affinity alphaL integrin I domain variant bound to ICAM-5. *Molecular Cell*, **2008**, 31, 432-7	17.6	35
199	Structure of a complete integrin ectodomain in a physiologic resting state and activation and deactivation by applied forces. *Molecular Cell*, **2008**, 32, 849-61	17.6	381
198	Functional and structural stability of the epidermal growth factor receptor in detergent micelles and phospholipid nanodiscs. *Biochemistry*, **2008**, 47, 10314-23	3.2	81
197	Structural basis for distinctive recognition of fibrinogen gammaC peptide by the platelet integrin alphaIIbbeta3. *Journal of Cell Biology*, **2008**, 182, 791-800	7.3	183
196	Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. *Journal of Experimental Medicine*, **2008**, 205, 993-993	16.6	78

195	Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. *Journal of Experimental Medicine*, **2008**, 205, 195-205	16.6	119
194	Structural basis of integrin regulation and signaling. *Annual Review of Immunology*, **2007**, 25, 619-47	34.7	1223
193	Binding between the integrin alphaXbeta2 (CD11c/CD18) and heparin. *Journal of Biological Chemistry*, **2007**, 282, 30869-77	5.4	38
192	Tests of the extension and deadbolt models of integrin activation. *Journal of Biological Chemistry*, **2007**, 282, 11914-20	5.4	47
191	Structural plasticity in Ig superfamily domain 4 of ICAM-1 mediates cell surface dimerization. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 15358-63	11.5	31
190	Specific and covalent labeling of a membrane protein with organic fluorochromes and quantum dots. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14753-8	11.5	76
189	Transcellular diapedesis is initiated by invasive podosomes. *Immunity*, **2007**, 26, 784-97	32.3	398
188	Integrin structures and conformational signaling. *Current Opinion in Cell Biology*, **2006**, 18, 579-86	9	213
187	Complement and the multifaceted functions of VWA and integrin I domains. *Structure*, **2006**, 14, 1611-6	5.2	69
186	Identification and characterization of a human monoclonal antagonistic antibody AL-57 that preferentially binds the high-affinity form of lymphocyte function-associated antigen-1. *Journal of Leukocyte Biology*, **2006**, 80, 905-14	6.5	13
185	A small molecule agonist of an integrin, alphaLbeta2. *Journal of Biological Chemistry*, **2006**, 281, 37904-13	5.4	30
184	Regulation of outside-in signaling and affinity by the beta2 I domain of integrin alphaLbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 13062-7	11.5	43
183	Rational design of intercellular adhesion molecule-1 (ICAM-1) variants for antagonizing integrin lymphocyte function-associated antigen-1-dependent adhesion. *Journal of Biological Chemistry*, **2006**, 281, 5042-9	5.4	49
182	Directed evolution to probe protein allostery and integrin I domains of 200,000-fold higher affinity. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5758-63	11.5	63
181	AL-57, a ligand-mimetic antibody to integrin LFA-1, reveals chemokine-induced affinity up-regulation in lymphocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 13991-6	11.5	45
180	Transition from rolling to firm adhesion can be mimicked by extension of integrin alphaLbeta2 in an intermediate affinity state. *Journal of Biological Chemistry*, **2006**, 281, 10876-82	5.4	53
179	Structural transitions of complement component C3 and its activation products. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19737-42	11.5	102
178	Importance of force linkage in mechanochemistry of adhesion receptors. *Biochemistry*, **2006**, 45, 15020-8	3.2	105

177	A high affinity human antibody antagonist of P-selectin mediated rolling. *Biochemical and Biophysical Research Communications*, **2006**, 350, 508-13	3.4	6
176	Activation of leukocyte beta2 integrins by conversion from bent to extended conformations. *Immunity*, **2006**, 25, 583-94	32.3	204
175	Remodeling of the lectin-EGF-like domain interface in P- and L-selectin increases adhesiveness and shear resistance under hydrodynamic force. *Nature Immunology*, **2006**, 7, 883-9	19.1	99
174	Structure-function of MAdCAM-1 revealed by single-molecule force spectroscopy. *FASEB Journal*, **2006**, 20, LB119	0.9	
173	Exposure of acidic residues as a danger signal for recognition of fibrinogen and other macromolecules by integrin alphaXbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 1614-9	11.5	85
172	Contribution of N-linked glycans to the conformation and function of intercellular adhesion molecules (ICAMs). *Journal of Biological Chemistry*, **2005**, 280, 5854-61	5.4	52
171	An atomic resolution view of ICAM recognition in a complex between the binding domains of ICAM-3 and integrin alphaLbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3366-71	11.5	63
170	Disrupting integrin transmembrane domain heterodimerization increases ligand binding affinity, not valency or clustering. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3679-84	11.5	129
169	Two-dimensional kinetics regulation of alphaLbeta2-ICAM-1 interaction by conformational changes of the alphaL-inserted domain. *Journal of Biological Chemistry*, **2005**, 280, 42207-18	5.4	61
168	Therapeutic antagonists and the conformational regulation of the beta2 integrins. *Current Topics in Medicinal Chemistry*, **2004**, 4, 1485-95	3	40
167	A transmigratory cup in leukocyte diapedesis both through individual vascular endothelial cells and between them. *Journal of Cell Biology*, **2004**, 167, 377-88	7.3	525
166	Locking the beta3 integrin I-like domain into high and low affinity conformations with disulfides. *Journal of Biological Chemistry*, **2004**, 279, 10215-21	5.4	82
165	The binding sites for competitive antagonistic, allosteric antagonistic, and agonistic antibodies to the I domain of integrin LFA-1. *Journal of Immunology*, **2004**, 173, 3972-8	5.3	40
164	Activation of integrin beta-subunit I-like domains by one-turn C-terminal alpha-helix deletions. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 2333-8	11.5	56
163	Intersubunit signal transmission in integrins by a receptor-like interaction with a pull spring. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 2906-11	11.5	86
162	The integrin alpha-subunit leg extends at a Ca2+-dependent epitope in the thigh/genu interface upon activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 15422-7	11.5	49
161	Allosteric beta1 integrin antibodies that stabilize the low affinity state by preventing the swing-out of the hybrid domain. *Journal of Biological Chemistry*, **2004**, 279, 27466-71	5.4	60
160	Integrin beta3 regions controlling binding of murine mAb 7E3: implications for the mechanism of integrin alphaIIbbeta3 activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 13114-20	11.5	74

159	The primacy of affinity over clustering in regulation of adhesiveness of the integrin {alpha}L{beta}2. *Journal of Cell Biology*, **2004**, 167, 1241-53	7.3	208
158	A specific interface between integrin transmembrane helices and affinity for ligand. *PLoS Biology*, **2004**, 2, e153	9.7	143
157	Boca-dependent maturation of beta-propeller/EGF modules in low-density lipoprotein receptor proteins. *EMBO Journal*, **2004**, 23, 1372-80	13	45
156	Structural basis for allostery in integrins and binding to fibrinogen-mimetic therapeutics. *Nature*, **2004**, 432, 59-67	50.4	679
155	Conversion between three conformational states of integrin I domains with a C-terminal pull spring studied with molecular dynamics. *Structure*, **2004**, 12, 2137-47	5.2	89
154	The relative influence of metal ion binding sites in the I-like domain and the interface with the hybrid domain on rolling and firm adhesion by integrin alpha4beta7. *Journal of Biological Chemistry*, **2004**, 279, 55556-61	5.4	41
153	RIAM, an Ena/VASP and Profilin ligand, interacts with Rap1-GTP and mediates Rap1-induced adhesion. *Developmental Cell*, **2004**, 7, 585-95	10.2	332
152	Rolling adhesion through an extended conformation of integrin alphaLbeta2 and relation to alpha I and beta I-like domain interaction. *Immunity*, **2004**, 20, 393-406	32.3	169
151	Structural basis for dimerization of ICAM-1 on the cell surface. *Molecular Cell*, **2004**, 14, 269-76	17.6	79
150	The three-dimensional structure of integrins and their ligands, and conformational regulation of cell adhesion. *Advances in Protein Chemistry*, **2004**, 68, 29-63		119
149	RIAM, a New Rap1 Effector, Functions Downstream of Rap1 and Regulates Rap1 Localization at the Plasma Membrane and Rap1-Induced Adhesion.. *Blood*, **2004**, 104, 510-510	2.2	
148	Crystal Structure of the Integrin □B□3 Headpiece at 2.7□3.1 A : Structure, Mechanisms of Activation and Ligand Binding, Inhibition by Eptifibatide, Tirofiban, and mAb 10E5, and Structure of the HPA-1 Alloantigen Epitope.. *Blood*, **2004**, 104, 327-327	2.2	
147	A Small-Molecule Antagonist to Integrin LFA-1 Reveals a Crucial Inter-Domain Communication as a Novel Therapeutic Target.. *Blood*, **2004**, 104, 650-650	2.2	
146	Stabilizing the open conformation of the integrin headpiece with a glycan wedge increases affinity for ligand. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 2403-8	11.5	125
145	Endothelial cells proactively form microvilli-like membrane projections upon intercellular adhesion molecule 1 engagement of leukocyte LFA-1. *Journal of Immunology*, **2003**, 171, 6135-44	5.3	181
144	Bidirectional transmembrane signaling by cytoplasmic domain separation in integrins. *Science*, **2003**, 301, 1720-5	33.3	650
143	Structure of integrin alpha5beta1 in complex with fibronectin. *EMBO Journal*, **2003**, 22, 4607-15	13	272
142	Integrin avidity regulation: are changes in affinity and conformation underemphasized?. *Current Opinion in Cell Biology*, **2003**, 15, 547-56	9	429

141	Bistable regulation of integrin adhesiveness by a bipolar metal ion cluster. *Nature Structural and Molecular Biology*, **2003**, 10, 995-1001	17.6	121
140	Complex between nidogen and laminin fragments reveals a paradigmatic beta-propeller interface. *Nature*, **2003**, 424, 969-74	50.4	115
139	Therapeutic antagonists and conformational regulation of integrin function. *Nature Reviews Drug Discovery*, **2003**, 2, 703-16	64.1	254
138	Structures of the alpha L I domain and its complex with ICAM-1 reveal a shape-shifting pathway for integrin regulation. *Cell*, **2003**, 112, 99-111	56.2	444
137	Small molecule integrin antagonists that bind to the beta2 subunit I-like domain and activate signals in one direction and block them in the other. *Immunity*, **2003**, 19, 391-402	32.3	123
136	Structure and allosteric regulation of the alpha X beta 2 integrin I domain. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 1873-8	11.5	82
135	High affinity ligand binding by integrins does not involve head separation. *Journal of Biological Chemistry*, **2003**, 278, 17185-9	5.4	13
134	Overlapping and selective roles of endothelial intercellular adhesion molecule-1 (ICAM-1) and ICAM-2 in lymphocyte trafficking. *Journal of Immunology*, **2003**, 171, 2588-93	5.3	96
133	Archaeal surface layer proteins contain beta propeller, PKD, and beta helix domains and are related to metazoan cell surface proteins. *Structure*, **2002**, 10, 1453-64	5.2	111
132	Predicted and experimental structures of integrins and beta-propellers. *Current Opinion in Structural Biology*, **2002**, 12, 802-13	8.1	31
131	Integrin activation and structural rearrangement. *Immunological Reviews*, **2002**, 186, 141-63	11.3	288
130	C□ar Milstein, the father of modern immunology. *Nature Immunology*, **2002**, 3, 501-3	19.1	10
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2	Tolloid cleavage activates latent GDF8 by priming the pro-complex for dissociation		3
1	Prodomain-Growth Factor Swapping in the Structure of pro-TGF-□1		1