

# M Amin Arnaout

## List of Publications by Year in descending order

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41  
papers

5,856  
citations

218677

26  
h-index

276875

41  
g-index

75  
all docs

75  
docs citations

75  
times ranked

5077  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure of the Extracellular Segment of Integrin $\alpha_5\beta_3$ in Complex with an Arg-Gly-Asp Ligand. Science, 2002, 296, 151-155.	12.6	1,529
2	Crystal Structure of the Extracellular Segment of Integrin $\alpha_5\beta_3$ . Science, 2001, 294, 339-345.	12.6	1,202
3	Structure and mechanics of integrin-based cell adhesion. Current Opinion in Cell Biology, 2007, 19, 495-507.	5.4	368
4	Leukocyte Adhesion Molecules Deficiency: Its Structural Basis, Pathophysiology and Implications for Modulating the Inflammatory Response. Immunological Reviews, 1990, 114, 145-180.	6.0	294
5	Deficiency of a Granulocyte-Membrane Glycoprotein (gp150) in a Boy with Recurrent Bacterial Infections. New England Journal of Medicine, 1982, 306, 693-699.	27.0	183
6	Coming to grips with integrin binding to ligands. Current Opinion in Cell Biology, 2002, 14, 641-652.	5.4	172
7	New insights into the structural basis of integrin activation. Blood, 2003, 102, 1155-1159.	1.4	170
8	Relative contribution of the leukocyte molecules MO1, LFA-1, and p150,95 (LeuM5) in adhesion of granulocytes and monocytes to vascular endothelium is tissue- and stimulus-specific. Journal of Cellular Physiology, 1988, 137, 305-309.	4.1	166
9	Three-dimensional EM structure of the ectodomain of integrin $\alpha_5\beta_3$ in a complex with fibronectin. Journal of Cell Biology, 2005, 168, 1109-1118.	5.2	166
10	Crystal structure of the complete integrin $\alpha_5\beta_3$ ectodomain plus an $\alpha_5/\beta_2$ transmembrane fragment. Journal of Cell Biology, 2009, 186, 589-600.	5.2	163
11	p150/95, Third member of the LFA-1/CR3 polypeptide family identified by anti-Leu M5 monoclonal antibody. European Journal of Immunology, 1985, 15, 713-718.	2.9	143
12	An Isoleucine-based Allosteric Switch Controls Affinity and Shape Shifting in Integrin CD11b A-domain. Journal of Biological Chemistry, 2000, 275, 38762-38767.	3.4	136
13	Two Functional States of the CD11b A-Domain: Correlations with Key Features of Two Mn <sup>2+</sup> -complexed Crystal Structures. Journal of Cell Biology, 1998, 143, 1523-1534.	5.2	129
14	Molecular Genetics and Pathogenesis of Autosomal Dominant Polycystic Kidney Disease. Annual Review of Medicine, 2001, 52, 93-123.	12.2	105
15	Structural basis for pure antagonism of integrin $\alpha_5\beta_3$ by a high-affinity form of fibronectin. Nature Structural and Molecular Biology, 2014, 21, 383-388.	8.2	104
16	Role of human factor I and C3b receptor in the cleavage of surface-bound C3bi molecules. European Journal of Immunology, 1983, 13, 465-470.	2.9	97
17	Does the Integrin $\alpha_5$ Domain Act as a Ligand for its $\beta_2$ Domain?. Current Biology, 2002, 12, R340-R342.	3.9	96
18	A Novel Adaptation of the Integrin PSI Domain Revealed from Its Crystal Structure. Journal of Biological Chemistry, 2004, 279, 40252-40254.	3.4	84

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19	Biology and structure of leukocyte $\beta_2$ integrins and their role in inflammation. <i>F1000Research</i> , 2016, 5, 2433.	1.6	65
20	uPAR isoform 2 forms a dimer and induces severe kidney disease in mice. <i>Journal of Clinical Investigation</i> , 2019, 129, 1946-1959.	8.2	48
21	The $\beta_2$ -tail domain ( $\beta_2$ TD) regulates physiologic ligand binding to integrin CD11b/CD18. <i>Blood</i> , 2007, 109, 3513-3520.	1.4	46
22	High-Affinity Bent $\beta_2$ -Integrin Molecules in Arresting Neutrophils Face Each Other through Binding to ICAMs In cis. <i>Cell Reports</i> , 2019, 26, 119-130.e5.	6.4	46
23	LFA-1 $\beta$ -chain synthesis and degradation in patients with leukocyte-adhesive proteins deficiency. <i>European Journal of Immunology</i> , 1987, 17, 417-419.	2.9	38
24	Collective Epithelial Migration Drives Kidney Repair after Acute Injury. <i>PLoS ONE</i> , 2014, 9, e101304.	2.5	33
25	Atomic Basis for the Species-specific Inhibition of $\beta_V$ Integrins by Monoclonal Antibody 17E6 Is Revealed by the Crystal Structure of $\beta_V^{23}$ Ectodomain-17E6 Fab Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 13801-13809.	3.4	32
26	Stable Coordination of the Inhibitory $Ca^{2+}$ Ion at the Metal Ion-Dependent Adhesion Site in Integrin CD11b/CD18 by an Antibody-Derived Ligand Aspartate: Implications for Integrin Regulation and Structure-Based Drug Design. <i>Journal of Immunology</i> , 2011, 187, 6393-6401.	0.8	30
27	Structure-guided design of pure orthosteric inhibitors of $\beta_V^{23}$ that prevent thrombosis but preserve hemostasis. <i>Nature Communications</i> , 2020, 11, 398.	12.8	27
28	Talin1 is required for cardiac Z $\alpha$ disk stabilization and endothelial integrity in zebrafish. <i>FASEB Journal</i> , 2015, 29, 4989-5005.	0.5	25
29	Prophylactic orthosteric inhibition of leukocyte integrin CD11b/CD18 prevents long-term fibrotic kidney failure in cynomolgus monkeys. <i>Nature Communications</i> , 2017, 8, 13899.	12.8	22
30	Novel Pure $\beta_V^{23}$ Integrin Antagonists That Do Not Induce Receptor Extension, Prime the Receptor, or Enhance Angiogenesis at Low Concentrations. <i>ACS Pharmacology and Translational Science</i> , 2019, 2, 387-401.	4.9	21
31	Antineutrophil cytoplasmic autoantibody-associated vasculitis presenting as Sj $\ddot{a}$ gren's syndrome. <i>Arthritis and Rheumatism</i> , 1992, 35, 1373-1376.	6.7	20
32	The Transcription Factor ZBP-89 Controls Generation of the Hematopoietic Lineage in Zebrafish and Mouse Embryonic Stem Cells. <i>Blood</i> , 2006, 108, 441-441.	1.4	20
33	Negative Regulation of TGF $\beta_2$ Signaling by Stem Cell Antigen-1 Protects against Ischemic Acute Kidney Injury. <i>PLoS ONE</i> , 2015, 10, e0129561.	2.5	15
34	CD43 gene expression is mediated by a nuclear factor which binds pyrimidine-rich single-stranded DNA. <i>Nucleic Acids Research</i> , 2000, 28, 2256-2267.	14.5	13
35	Structural Basis of the Differential Binding of Engineered Knottins to Integrins $\beta_V^{23}$ and $\beta_5^1$ . <i>Structure</i> , 2019, 27, 1443-1451.e6.	3.3	12
36	EM Structure of the Ectodomain of Integrin CD11b/CD18 and Localization of Its Ligand-Binding Site Relative to the Plasma Membrane. <i>PLoS ONE</i> , 2013, 8, e57951.	2.5	11

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37	The $\alpha$ -Subunit Regulates Stability of the Metal Ion at the Ligand-associated Metal Ion-binding Site in $\beta$ 3 Integrins. <i>Journal of Biological Chemistry</i> , 2014, 289, 23256-23263.	3.4	7
38	Conformational Dynamics in Extended RGD-Containing Peptides. <i>Biomacromolecules</i> , 2020, 21, 2786-2794.	5.4	7
39	The transcriptional coactivator Taz regulates proximodistal patterning of the pronephric tubule in zebrafish. <i>Mechanisms of Development</i> , 2015, 138, 328-335.	1.7	6
40	Structure of the Kidney Slit Diaphragm Adapter Protein CD2-Associated Protein as Determined with Electron Microscopy. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1465-1473.	6.1	4
41	Differential Role of the Transcription Factor ZBP-89 in Hemangioblast Fate Determination: ZBP-89 Is a Direct Regulator of SCL. <i>Blood</i> , 2007, 110, 1253-1253.	1.4	0