

# Athar H Chishti

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7341095/publications.pdf>

Version: 2024-02-01

67  
papers

2,762  
citations

172457

29  
h-index

182427

51  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2941  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of a PDZ domain. <i>Nature</i> , 1996, 382, 649-652.	27.8	322
2	Disruption of the Mouse $\beta$ -Calpain Gene Reveals an Essential Role in Platelet Function. <i>Molecular and Cellular Biology</i> , 2001, 21, 2213-2220.	2.3	226
3	Band 3 is a host receptor binding merozoite surface protein 1 during the <i>Plasmodium falciparum</i> invasion of erythrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5164-5169.	7.1	195
4	Targeted disruption of the murine erythroid band 3 gene results in spherocytosis and severe haemolytic anaemia despite a normal membrane skeleton. <i>Nature Genetics</i> , 1996, 14, 227-230.	21.4	156
5	Transport of PIP3 by GAKIN, a kinesin-3 family protein, regulates neuronal cell polarity. <i>Journal of Cell Biology</i> , 2006, 174, 425-436.	5.2	148
6	GAKIN, a Novel Kinesin-like Protein Associates with the Human Homologue of the <i>Drosophila</i> Discs Large Tumor Suppressor in T Lymphocytes. <i>Journal of Biological Chemistry</i> , 2000, 275, 28774-28784.	3.4	137
7	A Co-ligand Complex Anchors <i>Plasmodium falciparum</i> Merozoites to the Erythrocyte Invasion Receptor Band 3. <i>Journal of Biological Chemistry</i> , 2004, 279, 5765-5771.	3.4	91
8	Complete Deficiency of Glycophorin A in Red Blood Cells From Mice With Targeted Inactivation of the Band 3 (AE1) Gene. <i>Blood</i> , 1998, 91, 2146-2151.	1.4	88
9	Dematin and Adducin Provide a Novel Link between the Spectrin Cytoskeleton and Human Erythrocyte Membrane by Directly Interacting with Glucose Transporter-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 14600-14609.	3.4	85
10	Merozoite surface protein 1 recognition of host glycophorin A mediates malaria parasite invasion of red blood cells. <i>Blood</i> , 2015, 125, 2704-2711.	1.4	81
11	The Effector Domain of Human Dlg Tumor Suppressor Acts as a Switch That Relieves Autoinhibition of Kinesin-3 Motor GAKIN/KIF13B. <i>Biochemistry</i> , 2007, 46, 10039-10045.	2.5	72
12	Double Knockouts Reveal that Protein Tyrosine Phosphatase 1B Is a Physiological Target of Calpain-1 in Platelets. <i>Molecular and Cellular Biology</i> , 2007, 27, 6038-6052.	2.3	71
13	Headpiece domain of dematin is required for the stability of the erythrocyte membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6637-6642.	7.1	68
14	Isoform Cloning, Actin Binding, and Chromosomal Localization of Human Erythroid Dematin, a Member of the Villin Superfamily. <i>Journal of Biological Chemistry</i> , 1995, 270, 17407-17413.	3.4	66
15	Direct Interaction with a Kinesin-related Motor Mediates Transport of Mammalian Discs Large Tumor Suppressor Homologue in Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 8395-8400.	3.4	63
16	Centaurin-1 interacts directly with kinesin motor protein KIF13B. <i>Journal of Cell Science</i> , 2005, 118, 2471-2484.	2.0	62
17	Targeted Gene Inactivation of Calpain-1 Suppresses Cortical Degeneration Due to Traumatic Brain Injury and Neuronal Apoptosis Induced by Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2012, 287, 13182-13193.	3.4	62
18	Calpain-mediated regulation of platelet signaling pathways. <i>Current Opinion in Hematology</i> , 2007, 14, 249-254.	2.5	54

#	ARTICLE	IF	CITATIONS
19	Plasmodium falciparum signal peptide peptidase is a promising drug target against blood stage malaria. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 454-459.	2.1	45
20	Combined Deletion of Mouse Dematin-Headpiece and Î <sup>2</sup> -Adducin Exerts a Novel Effect on the Spectrin-Actin Junctions Leading to Erythrocyte Fragility and Hemolytic Anemia. <i>Journal of Biological Chemistry</i> , 2007, 282, 4124-4135.	3.4	40
21	Protein 4.1-mediated Membrane Targeting of Human Discs Large in Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 34445-34450.	3.4	37
22	Erythrocyte scaffolding protein p55/MPP1 functions as an essential regulator of neutrophil polarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19842-19847.	7.1	35
23	Gene disruption of dematin causes precipitous loss of erythrocyte membrane stability and severe hemolytic anemia. <i>Blood</i> , 2016, 128, 93-103.	1.4	35
24	Function of p55 and its nonerythroid homologues. <i>Current Opinion in Hematology</i> , 1998, 5, 116-121.	2.5	34
25	Identification of a specific region of Plasmodium falciparum EBL-1 that binds to host receptor glycophorin B and inhibits merozoite invasion in human red blood cells. <i>Molecular and Biochemical Parasitology</i> , 2012, 183, 23-31.	1.1	33
26	Calpain-1 knockout reveals broad effects on erythrocyte deformability and physiology. <i>Biochemical Journal</i> , 2012, 448, 141-152.	3.7	32
27	Differential expression of human Dlg in cervical intraepithelial neoplasias. <i>Gynecologic Oncology</i> , 2004, 93, 422-428.	1.4	31
28	Leukocyte Calpain Deficiency Reduces Angiotensin II-Induced Inflammation and Atherosclerosis But Not Abdominal Aortic Aneurysms in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 835-845.	2.4	30
29	A Presenilin-like protease associated with Plasmodium falciparum micronemes is involved in erythrocyte invasion. <i>Molecular and Biochemical Parasitology</i> , 2008, 158, 22-31.	1.1	29
30	Human erythrocyte band 3 functions as a receptor for the sialic acid-independent invasion of Plasmodium falciparum. Role of the RhopH3-MSPI complex. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2855-2870.	4.1	29
31	Two Plasmodium falciparum merozoite proteins binding to erythrocyte band 3 form a direct complex. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1690-1695.	2.1	28
32	Pharmacological inhibition of calpain-1 prevents red cell dehydration and reduces Gardos channel activity in a mouse model of sickle cell disease. <i>FASEB Journal</i> , 2013, 27, 750-759.	0.5	28
33	Human Erythrocyte Dematin and Protein 4.2 (Pallidin) Are ATP Binding Proteins. <i>Biochemistry</i> , 1996, 35, 3001-3006.	2.5	26
34	Alternatively spliced exon 5 of the FERM domain of protein 4.1R encodes a novel binding site for erythrocyte p55 and is critical for membrane targeting in epithelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 281-289.	4.1	22
35	Calpain-1 Contributes to IgE-Mediated Mast Cell Activation. <i>Journal of Immunology</i> , 2014, 192, 5130-5139.	0.8	22
36	The Headpiece Domain of Dematin Regulates Cell Shape, Motility, and Wound Healing by Modulating RhoA Activation. <i>Molecular and Cellular Biology</i> , 2008, 28, 4712-4718.	2.3	17

#	ARTICLE	IF	CITATIONS
37	Human erythrocyte band 3 is a host receptor for Plasmodium falciparum glutamic acid-rich protein. Blood, 2019, 133, 470-480.	1.4	15
38	Calpain-1 ablation partially rescues disease-associated hallmarks in models of Machado-Joseph disease. Human Molecular Genetics, 2020, 29, 892-906.	2.9	15
39	Proteomic and functional analyses of the periodic membrane skeleton in neurons. Nature Communications, 2022, 13, .	12.8	15
40	Genetic inactivation of calpain-1 attenuates pain sensitivity in a humanized mouse model of sickle cell disease. Haematologica, 2016, 101, e397-e400.	3.5	14
41	β13 Switch Region 2 Relieves Talin Autoinhibition to Activate αIIbβ3 Integrin. Journal of Biological Chemistry, 2016, 291, 26598-26612.	3.4	12
42	LDL receptor related protein 1 requires the I3 domain of discs-large homolog 1/DLG1 for interaction with the kinesin motor protein KIF13B. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 118552.	4.1	12
43	Plasmodium falciparum signal peptide peptidase cleaves malaria heat shock protein 101 (HSP101). Implications for gametocytogenesis. Biochemical and Biophysical Research Communications, 2014, 450, 1427-1432.	2.1	8
44	Malaria selectively targets pregnancy receptors. Blood, 2015, 125, 217-218.	1.4	8
45	Regulatory models of RhoA suppression by dematin, a cytoskeletal adaptor protein. Cell Adhesion and Migration, 2009, 3, 191-194.	2.7	7
46	β13 Switch Region 2 Binds to the Talin Head Domain and Activates αIIbβ3 Integrin in Human Platelets. Journal of Biological Chemistry, 2015, 290, 25129-25139.	3.4	7
47	Calpain-1 regulates platelet function in a humanized mouse model of sickle cell disease. Thrombosis Research, 2017, 160, 58-65.	1.7	7
48	Filamin (FLN1), plexin (SEX), major palmitoylated protein p55 (MPP1), and von-Hippel Lindau binding protein (VBPI) are not involved in incontinentia pigmenti type 2. American Journal of Medical Genetics Part A, 2000, 94, 79-84.	2.4	5
49	Hemozoin Regulates iNOS Expression by Modulating the Transcription Factor NF-κB in Macrophages. Biochemistry & Molecular Biology Journal, 2016, 2, .	0.3	5
50	MPP1/p55 gene deletion in a hemophilia A patient with ectrodactyly and severe developmental defects. American Journal of Hematology, 2019, 94, E29-E32.	4.1	5
51	cDNA sequence, genomic structure, and expression of the mouse dematin gene ( Epb4.9 ). Mammalian Genome, 1999, 10, 1026-1029.	2.2	4
52	HIV protease inhibitors block parasite signal peptide peptidases and prevent growth of Babesia microti parasites in erythrocytes. Biochemical and Biophysical Research Communications, 2019, 517, 125-131.	2.1	4
53	Fine scale mapping places DLG1, the gene encoding hDlg, telomeric to the OPA1 candidate region. Mammalian Genome, 1997, 8, 795-796.	2.2	3
54	Activation of transglutaminase in 1/4-calpain null erythrocytes. Biochemical and Biophysical Research Communications, 2003, 307, 327-331.	2.1	3

#	ARTICLE	IF	CITATIONS
55	Headpiece Domain of Dematin Regulates Calcium Mobilization and Signaling in Platelets. <i>Journal of Biological Chemistry</i> , 2012, 287, 41218-41231.	3.4	3
56	Receptor-based identification of an inhibitory peptide against blood stage malaria. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 489-493.	2.1	2
57	Signal peptide peptidase: a potential therapeutic target for parasitic and viral infections. <i>Expert Opinion on Therapeutic Targets</i> , 2022, , 1-13.	3.4	2
58	Safe and effective delivery of supplemental iron to healthy older adults: The double-blind, randomized, placebo-controlled trial protocol of the Safe Iron Study. <i>Gates Open Research</i> , 2019, 3, 1510.	1.1	1
59	Expression of Concern for Takano et al., "Vital Role of the Calpain-Calpastatin System for Placental-Integrity-Dependent Embryonic Survival" <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	0
60	Ferrous Sulfate-Iron (60 mg/d) Does Not Increase Risks to Malarial Infectivity, Pathogenic Bacterial Proliferation or Other Adverse Effects in Non-Anemic Healthy Adults. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa067_047.	0.3	0
61	Targeted Gene Disruption of Kinesin-3 Family Motors Unveils a Negative Regulatory Mechanism for Mouse Erythroblast Enucleation. <i>Blood</i> , 2012, 120, 371-371.	1.4	0
62	Conditional Knockout-First Gene Disruption of Dematin Causes Precipitous Loss of Erythrocyte Membrane Stability and Severe Hemolytic Anemia. <i>Blood</i> , 2015, 126, 157-157.	1.4	0
63	Hypoxia Reoxygenation Treatment Induces Platelet Hyperactivity and Relieves Calpain-1-Mediated Inhibition of Platelet Aggregation in a Mouse Model of Severe Sickle Cell Disease. <i>Blood</i> , 2015, 126, 413-413.	1.4	0
64	Dematin and Adducin Tether Sodium-Hydrogen Exchanger, NHE1, to Erythrocyte Membrane Cytoskeleton. <i>Blood</i> , 2016, 128, 700-700.	1.4	0
65	Î±13 Switch Region 2 Relieves Talin Autoinhibition to Activate Platelet Î±IIbÎ²3 Integrin. <i>Blood</i> , 2016, 128, 712-712.	1.4	0
66	LRP1 requires the I3 domain of hDlg for interaction with the motor protein KIF13B. <i>FASEB Journal</i> , 2018, 32, 652.15.	0.5	0
67	Calpain-1 inhibition attenuates in vivo thrombosis in a humanized model of sickle cell disease. <i>Thrombosis Research</i> , 2022, 211, 123-126.	1.7	0