

# Athar H Chishti

## List of Publications by Year in descending order

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67  
papers

2,762  
citations

172457

29  
h-index

182427

51  
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69  
all docs

69  
docs citations

69  
times ranked

2941  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Proteomic and functional analyses of the periodic membrane skeleton in neurons. <i>Nature Communications</i> , 2022, 13, .	12.8	15
4	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
5	Calpain-1 ablation partially rescues disease-associated hallmarks in models of Machado-Joseph disease. <i>Human Molecular Genetics</i> , 2020, 29, 892-906.	2.9	15
6	HIV protease inhibitors block parasite signal peptide peptidases and prevent growth of <i>Babesia microti</i> parasites in erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2019, 517, 125-131.	2.1	4
7	LDL receptor related protein 1 requires the I3 domain of discs-large homolog 1/DLG1 for interaction with the kinesin motor protein KIF13B. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 118552.	4.1	12
8	MPP1/p55 gene deletion in a hemophilia A patient with ectrodactyly and severe developmental defects. <i>American Journal of Hematology</i> , 2019, 94, E29-E32.	4.1	5
9	Human erythrocyte band 3 is a host receptor for <i>Plasmodium falciparum</i> glutamic acid-rich protein. <i>Blood</i> , 2019, 133, 470-480.	1.4	15
10	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
11	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
12	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
13	Calpain-1 regulates platelet function in a humanized mouse model of sickle cell disease. <i>Thrombosis Research</i> , 2017, 160, 58-65.	1.7	7
14	Hemozoin Regulates iNOS Expression by Modulating the Transcription Factor NF- $\kappa$ B in Macrophages. <i>Biochemistry &amp; Molecular Biology Journal</i> , 2016, 2, .	0.3	5
15	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
16	G13 Switch Region 2 Relieves Talin Autoinhibition to Activate $\beta$ 3 Integrin. <i>Journal of Biological Chemistry</i> , 2016, 291, 26598-26612.	3.4	12
17	Genetic inactivation of calpain-1 attenuates pain sensitivity in a humanized mouse model of sickle cell disease. <i>Haematologica</i> , 2016, 101, e397-e400.	3.5	14
18	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

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19	Dematin and Adducin Tether Sodium-Hydrogen Exchanger, NHE1, to Erythrocyte Membrane Cytoskeleton. <i>Blood</i> , 2016, 128, 700-700.	1.4	0
20	Gl $\alpha$ 13 Switch Region 2 Relieves Talin Autoinhibition to Activate Platelet $\alpha$ IIb $\beta$ 3 Integrin. <i>Blood</i> , 2016, 128, 712-712.	1.4	0
21	Malaria selectively targets pregnancy receptors. <i>Blood</i> , 2015, 125, 217-218.	1.4	8
22	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
23	Gl $\alpha$ 13 Switch Region 2 Binds to the Talin Head Domain and Activates $\alpha$ IIb $\beta$ 3 Integrin in Human Platelets. <i>Journal of Biological Chemistry</i> , 2015, 290, 25129-25139.	3.4	7
24	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
25	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
26	Calpain-1 Contributes to IgE-Mediated Mast Cell Activation. <i>Journal of Immunology</i> , 2014, 192, 5130-5139.	0.8	22
27	Human erythrocyte band 3 functions as a receptor for the sialic acid-independent invasion of <i>Plasmodium falciparum</i> . Role of the RhopH3 $\alpha$ -MSP1 complex. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2855-2870.	4.1	29
28	<i>Plasmodium falciparum</i> signal peptide peptidase cleaves malaria heat shock protein 101 (HSP101). Implications for gametocytogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1427-1432.	2.1	8
29	Pharmacological inhibition of calpain $\alpha$ 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
30	Calpain-1 knockout reveals broad effects on erythrocyte deformability and physiology. <i>Biochemical Journal</i> , 2012, 448, 141-152.	3.7	32
31	Headpiece Domain of Dematin Regulates Calcium Mobilization and Signaling in Platelets. <i>Journal of Biological Chemistry</i> , 2012, 287, 41218-41231.	3.4	3
32	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
33	Identification of a specific region of <i>Plasmodium falciparum</i> 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
34	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
35	Regulatory models of RhoA suppression by dematin, a cytoskeletal adaptor protein. <i>Cell Adhesion and Migration</i> , 2009, 3, 191-194.	2.7	7
36	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

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37	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
38	<i>Plasmodium falciparum</i> 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
39	A Presenilin-like protease associated with <i>Plasmodium falciparum</i> micronemes is involved in erythrocyte invasion. <i>Molecular and Biochemical Parasitology</i> , 2008, 158, 22-31.	1.1	29
40	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
41	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
42	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
43	Combined Deletion of Mouse Dematin-Headpiece and $\hat{1}^2$ -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
44	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
45	Calpain-mediated regulation of platelet signaling pathways. <i>Current Opinion in Hematology</i> , 2007, 14, 249-254.	2.5	54
46	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
47	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
48	Centaurin- $\hat{1}\pm 1$ interacts directly with kinesin motor protein KIF13B. <i>Journal of Cell Science</i> , 2005, 118, 2471-2484.	2.0	62
49	Two <i>Plasmodium falciparum</i> 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
50	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
51	Differential expression of human Dlg in cervical intraepithelial neoplasias. <i>Gynecologic Oncology</i> , 2004, 93, 422-428.	1.4	31
52	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
53	Activation of transglutaminase in $\hat{1}\frac{1}{4}$ -calpain null erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2003, 307, 327-331.	2.1	3
54	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

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55	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
56	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
57	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
58	Filamin (FLN1), plexin (SEX), major palmitoylated protein p55 (MPP1), and von-Hippel Lindau binding protein (VBP1) are not involved in incontinentia pigmenti type 2. <i>American Journal of Medical Genetics Part A</i> , 2000, 94, 79-84.	2.4	5
59	GAKIN, a Novel Kinesin-like Protein Associates with the Human Homologue of the Drosophila Discs Large Tumor Suppressor in T Lymphocytes. <i>Journal of Biological Chemistry</i> , 2000, 275, 28774-28784.	3.4	137
60	cDNA sequence, genomic structure, and expression of the mouse dematin gene ( Epb4.9 ). <i>Mammalian Genome</i> , 1999, 10, 1026-1029.	2.2	4
61	Function of p55 and its nonerythroid homologues. <i>Current Opinion in Hematology</i> , 1998, 5, 116-121.	2.5	34
62	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
63	Fine scale mapping places DLG1, the gene encoding hDlg, telomeric to the OPA1 candidate region. <i>Mammalian Genome</i> , 1997, 8, 795-796.	2.2	3
64	Human Erythrocyte Dematin and Protein 4.2 (Pallidin) Are ATP Binding Proteins. <i>Biochemistry</i> , 1996, 35, 3001-3006.	2.5	26
65	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
66	Crystal structure of a PDZ domain. <i>Nature</i> , 1996, 382, 649-652.	27.8	322
67	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