

Aron W Fenton

List of Publications by Year in descending order

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106
papers

3,405
citations

257101

24
h-index

155451

55
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112
all docs

112
docs citations

112
times ranked

4266
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloning the gene for an inherited human disorder—chronic granulomatous disease—on the basis of its chromosomal location. <i>Nature</i> , 1986, 322, 32-38.	13.7	833
2	Allostery: an illustrated definition for the “second secret of life”™. <i>Trends in Biochemical Sciences</i> , 2008, 33, 420-425.	3.7	256
3	The Genetic Landscape of Diamond-Blackfan Anemia. <i>American Journal of Human Genetics</i> , 2018, 103, 930-947.	2.6	184
4	Lentiviral gene therapy for X-linked chronic granulomatous disease. <i>Nature Medicine</i> , 2020, 26, 200-206.	15.2	175
5	Evaluation and Management of Patients With Isolated Neutropenia. <i>Seminars in Hematology</i> , 2013, 50, 198-206.	1.8	167
6	Long intergenic non-coding RNA HOTAIRM1 regulates cell cycle progression during myeloid maturation in NB4 human promyelocytic leukemia cells. <i>RNA Biology</i> , 2014, 11, 777-787.	1.5	143
7	Neutrophil Responses to Sterile Implant Materials. <i>PLoS ONE</i> , 2015, 10, e0137550.	1.1	92
8	Congenital sideroblastic anemia due to mutations in the mitochondrial HSP70 homologue HSPA9. <i>Blood</i> , 2015, 126, 2734-2738.	0.6	78
9	Differentiating a Ligand's Chemical Requirements for Allosteric Interactions from Those for Protein Binding. Phenylalanine Inhibition of Pyruvate Kinase. <i>Biochemistry</i> , 2006, 45, 5421-5429.	1.2	76
10	Cyclic neutropenia and severe congenital neutropenia in patients with a shared <i>ELANE</i> mutation and paternal haplotype: Evidence for phenotype determination by modifying genes. <i>Pediatric Blood and Cancer</i> , 2010, 55, 314-317.	0.8	60
11	Benign ethnic neutropenia. <i>Blood Reviews</i> , 2019, 37, 100586.	2.8	56
12	Whole-protein alanine-scanning mutagenesis of allostery: A large percentage of a protein can contribute to mechanism. <i>Human Mutation</i> , 2017, 38, 1132-1143.	1.1	50
13	Genotype-phenotype correlation and molecular heterogeneity in pyruvate kinase deficiency. <i>American Journal of Hematology</i> , 2020, 95, 472-482.	2.0	47
14	Prevalence and management of iron overload in pyruvate kinase deficiency: report from the Pyruvate Kinase Deficiency Natural History Study. <i>Haematologica</i> , 2019, 104, e51-e53.	1.7	46
15	Distinguishing the Interactions in the Fructose 1,6-Bisphosphate Binding Site of Human Liver Pyruvate Kinase That Contribute to Allostery. <i>Biochemistry</i> , 2015, 54, 1516-1524.	1.2	43
16	The pH dependence of the allosteric response of human liver pyruvate kinase to fructose-1,6-bisphosphate, ATP, and alanine. <i>Archives of Biochemistry and Biophysics</i> , 2009, 484, 16-23.	1.4	42
17	Autoimmune and other acquired neutropenias. <i>Hematology American Society of Hematology Education Program</i> , 2016, 2016, 38-42.	0.9	40
18	Trisomy silencing by XIST normalizes Down syndrome cell pathogenesis demonstrated for hematopoietic defects in vitro. <i>Nature Communications</i> , 2018, 9, 5180.	5.8	38

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19	Energetic Coupling between an Oxidizable Cysteine and the Phosphorylatable N-Terminus of Human Liver Pyruvate Kinase. <i>Biochemistry</i> , 2013, 52, 466-476.	1.2	37
20	Recognition and binding of the human selenocysteine insertion sequence by nucleolin. , 2000, 77, 507-516.		32
21	The Impact of Ions on Allosteric Functions in Human Liver Pyruvate Kinase. <i>Methods in Enzymology</i> , 2009, 466, 83-107.	0.4	32
22	Disorders of Neutrophil Number and Function. <i>Hematology American Society of Hematology Education Program</i> , 2006, 2006, 104-110.	0.9	29
23	What Mutagenesis Can and Cannot Reveal About Allostery. <i>Biophysical Journal</i> , 2016, 110, 1912-1923.	0.2	28
24	Disentangling the Web of Allosteric Communication in a Homotetramer: Heterotropic Inhibition in Phosphofruktokinase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2009, 48, 12323-12328.	1.2	27
25	Protein Structural Analysis via Mass Spectrometry-Based Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2016, 919, 397-431.	0.8	27
26	Identification of Substrate Contact Residues Important for the Allosteric Regulation of Phosphofruktokinase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2003, 42, 6453-6459.	1.2	26
27	Mining for allosteric information: Natural mutations and positional sequence conservation in pyruvate kinase. <i>IUBMB Life</i> , 2006, 58, 31-38.	1.5	26
28	Isolation of a Single Activating Allosteric Interaction in Phosphofruktokinase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2002, 41, 13410-13416.	1.2	24
29	An Activating Interaction between the Unphosphorylated N-Terminus of Human Liver Pyruvate Kinase and the Main Body of the Protein Is Interrupted by Phosphorylation. <i>Biochemistry</i> , 2009, 48, 3816-3818.	1.2	24
30	Aberrant splicing contributes to severe α -spectrin-linked congenital hemolytic anemia. <i>Journal of Clinical Investigation</i> , 2019, 129, 2878-2887.	3.9	24
31	RheoScale: A tool to aggregate and quantify experimentally determined substitution outcomes for multiple variants at individual protein positions. <i>Human Mutation</i> , 2018, 39, 1814-1826.	1.1	23
32	Dissecting ELANE neutropenia pathogenicity by human HSC gene editing. <i>Cell Stem Cell</i> , 2021, 28, 833-845.e5.	5.2	23
33	Exploring the limits of the usefulness of mutagenesis in studies of allosteric mechanisms. <i>Human Mutation</i> , 2017, 38, 1144-1154.	1.1	22
34	A critical review of the role of M2PYK in the Warburg effect. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2019, 1871, 225-239.	3.3	22
35	Distinguishing the Chemical Moiety of Phosphoenolpyruvate That Contributes to Allostery in Muscle Pyruvate Kinase. <i>Biochemistry</i> , 2013, 52, 1-3.	1.2	21
36	Heterogeneous Pathways of Oxidizing Radical Production in Human Neutrophils and the HL-60 Cell Line. <i>Pediatric Research</i> , 1982, 16, 856-860.	1.1	19

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37	Mechanism of Substrate Inhibition in <i>Escherichia coli</i> Phosphofructokinase. <i>Biochemistry</i> , 2003, 42, 12676-12681.	1.2	19
38	Identification of Regions of Rabbit Muscle Pyruvate Kinase Important for Allosteric Regulation by Phenylalanine, Detected by H/D Exchange Mass Spectrometry. <i>Biochemistry</i> , 2013, 52, 1998-2006.	1.2	19
39	The strengths and limitations of using biolayer interferometry to monitor equilibrium titrations of biomolecules. <i>Protein Science</i> , 2020, 29, 1004-1020.	3.1	19
40	A clinically relevant polymorphism in the Na ⁺ /taurocholate cotransporting polypeptide (NTCP) occurs at a rheostat position. <i>Journal of Biological Chemistry</i> , 2021, 296, 100047.	1.6	19
41	Selenium-regulated translation control of heterologous gene expression: Normal function of selenocysteine-substituted gene products. <i>Journal of Cellular Biochemistry</i> , 1996, 61, 410-419.	1.2	18
42	Disentangling the Web of Allosteric Communication in a Homotetramer: Heterotropic Activation in Phosphofructokinase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004, 43, 14104-14110.	1.2	17
43	The pyruvate kinase model system, a cautionary tale for the use of osmolyte perturbations to support conformational equilibria in allostery. <i>Protein Science</i> , 2010, 19, 1796-1800.	3.1	17
44	Effector Analogues Detect Varied Allosteric Roles for Conserved Protein-Effector Interactions in Pyruvate Kinase Isozymes. <i>Biochemistry</i> , 2011, 50, 1934-1939.	1.2	17
45	Benchmarking predictions of allostery in liver pyruvate kinase in CAG14. <i>Human Mutation</i> , 2017, 38, 1123-1131.	1.1	17
46	Changes in Small-Angle X-ray Scattering Parameters Observed upon Binding of Ligand to Rabbit Muscle Pyruvate Kinase Are Not Correlated with Allosteric Transitions. <i>Biochemistry</i> , 2010, 49, 7202-7209.	1.2	16
47	A bioenergetics systems evaluation of ketogenic diet liver effects. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017, 42, 955-962.	0.9	16
48	Rheostat positions: A new classification of protein positions relevant to pharmacogenomics. <i>Medicinal Chemistry Research</i> , 2020, 29, 1133-1146.	1.1	16
49	Functional tunability from a distance: Rheostat positions influence allosteric coupling between two distant binding sites. <i>Scientific Reports</i> , 2019, 9, 16957.	1.6	15
50	How we approach: Severe congenital neutropenia and myelofibrosis due to mutations in <i>VPS45</i> . <i>Pediatric Blood and Cancer</i> , 2019, 66, e27473.	0.8	15
51	Regulation of <i>CYBB</i> Gene Expression in Human Phagocytes by a Distant Upstream NF- κ B Binding Site. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2008-2017.	1.2	14
52	Splenic progenitors aid in maintaining high neutrophil numbers at sites of sterile chronic inflammation. <i>Journal of Leukocyte Biology</i> , 2016, 100, 253-260.	1.5	14
53	A novel homozygous <i>VPS45</i> p.P468L mutation leading to severe congenital neutropenia with myelofibrosis. <i>Pediatric Blood and Cancer</i> , 2017, 64, e26571.	0.8	14
54	Identification of biochemically neutral positions in liver pyruvate kinase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1340-1350.	1.5	14

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55	Is There a Role for Anti-Neutrophil Antibody Testing in Predicting Spontaneous Resolution of Neutropenia in Young Children. <i>Blood</i> , 2015, 126, 2211-2211.	0.6	13
56	Changes in the allosteric site of human liver pyruvate kinase upon activator binding include the breakage of an intersubunit cation-π bond. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 461-469.	0.4	12
57	Rheostat functional outcomes occur when substitutions are introduced at nonconserved positions that diverge with speciation. <i>Protein Science</i> , 2021, 30, 1833-1853.	3.1	12
58	Adolescents with cancer: access to clinical trials and age-appropriate care. <i>Current Opinion in Pediatrics</i> , 2002, 14, 1-4.	1.0	11
59	Phagocyte nicotinamide adenine dinucleotide phosphate oxidase activity in patients with inherited IFN-γR1 or IFN-γR2 deficiency. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 1393-1395.e1.	1.5	11
60	Chokeypoints in Mechanical Coupling Associated with Allosteric Proteins: The Pyruvate Kinase Example. <i>Biophysical Journal</i> , 2019, 116, 1598-1608.	0.2	10
61	Identification of Allosteric-Activating Drug Leads for Human Liver Pyruvate Kinase. <i>Methods in Molecular Biology</i> , 2012, 796, 369-382.	0.4	10
62	Hematology and oncology. <i>Current Opinion in Pediatrics</i> , 2005, 17, 1-2.	1.0	8
63	Allosteric Regulation of Human Liver Pyruvate Kinase by Peptides that Mimic the Phosphorylated/Dephosphorylated N-Terminus. <i>Methods in Molecular Biology</i> , 2012, 796, 335-349.	0.4	8
64	Mutations of the Genes for Ribosomal Proteins L5 and L11 Are a Common Cause of Diamond-Blackfan Anemia. <i>Blood</i> , 2007, 110, 421-421.	0.6	8
65	Platelets and leukocytes: aggregate knowledge. <i>Blood</i> , 2007, 110, 794-795.	0.6	7
66	Monitoring allostery in D2O: a necessary control in studies using hydrogen/deuterium exchange to characterize allosteric regulation. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1083-1086.	1.9	7
67	Substitutions at a rheostat position in human aldolase A cause a shift in the conformational population. <i>Protein Science</i> , 2022, 31, 357-370.	3.1	7
68	SAIDE: A Semi-Automated Interface for Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Proteomics</i> , 2010, 6, 63-69.	1.0	7
69	Chemotactic peptide-induced cytoplasmic pH changes in incubated human monocytes. <i>Journal of Leukocyte Biology</i> , 1993, 53, 673-678.	1.5	6
70	Mutational mimics of allosteric effectors: a genome editing design to validate allosteric drug targets. <i>Scientific Reports</i> , 2019, 9, 9031.	1.6	6
71	An oral Hemokine™, 1±-methylhydrocinnamate, enhances myeloid and neutrophil recovery following irradiation in vivo. <i>Blood Cells, Molecules, and Diseases</i> , 2017, 63, 1-8.	0.6	5
72	Within and beyond: Some implications of developmental contexts for reframing school psychology. <i>Psychology in the Schools</i> , 2017, 54, 1252-1259.	1.1	5

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73	Array Comparative Genomic Hybridization of Ribosomal Protein Genes In Diamond-Blackfan Anemia Patients; Evidence for Three New DBA Genes, RPS8, RPS14 and RPL15, with Large Deletion or Duplication. <i>Blood</i> , 2010, 116, 1007-1007.	0.6	5
74	Outcomes of Pregnancies for Women with Severe Chronic Neutropenia with or without G-CSF Treatment.. <i>Blood</i> , 2010, 116, 1490-1490.	0.6	5
75	Odd one out? Functional tuning of <i>Zymomonas mobilis</i> pyruvate kinase is narrower than its allosteric, human counterpart. <i>Protein Science</i> , 2022, 31, .	3.1	5
76	Are all regions of folded proteins that undergo ligand-dependent order-disorder transitions targets for allosteric peptide mimetics?. <i>Biopolymers</i> , 2013, 100, 553-557.	1.2	4
77	Molecular Characterization of 140 Patients in the Pyruvate Kinase Deficiency (PKD) Natural History Study (NHS): Report of 20 New Variants. <i>Blood</i> , 2015, 126, 3337-3337.	0.6	4
78	Structural Plasticity Is a Feature of Rheostat Positions in the Human Na ⁺ /Taurocholate Cotransporting Polypeptide (NTCP). <i>International Journal of Molecular Sciences</i> , 2022, 23, 3211.	1.8	4
79	IL6 to the rescue. <i>Blood</i> , 2008, 111, 3914-3915.	0.6	3
80	Gene expression in chronic granulomatous disease and interferon- γ receptor-deficient cells treated in vitro with interferon- γ . <i>Journal of Cellular Biochemistry</i> , 2019, 120, 4321-4332.	1.2	3
81	The Risk of Low Bone Mineral Density with Long-Term G-CSF Therapy for Severe Chronic Neutropenia.. <i>Blood</i> , 2010, 116, 1484-1484.	0.6	3
82	H/D Exchange Characterization of Silent Coupling: Entropy-Enthalpy Compensation in Allostery. <i>Biophysical Journal</i> , 2020, 118, 2966-2978.	0.2	3
83	Inhibition of Pyruvate Kinase From <i>Thermoanaerobacterium saccharolyticum</i> by IMP Is Independent of the Extra-C Domain. <i>Frontiers in Microbiology</i> , 2021, 12, 628308.	1.5	2
84	Ribosomal Protein Genes S10 and S26 Are Commonly Mutated in Diamond-Blackfan Anemia.. <i>Blood</i> , 2009, 114, 175-175.	0.6	2
85	Stable Long-Term Risk of Leukemia in Patients with Severe Congenital Neutropenia Maintained On G-CSF Therapy.. <i>Blood</i> , 2009, 114, 3206-3206.	0.6	2
86	Neutrophil Elastase Mutations and the Risk of Leukemia In Patients with Cyclic and Congenital Neutropenia.. <i>Blood</i> , 2010, 116, 3786-3786.	0.6	2
87	Understanding Neutropenia: The 20 Year Experience of the Severe Chronic Neutropenia International Registry (SCNIR). <i>Blood</i> , 2014, 124, 2730-2730.	0.6	2
88	The American Society of Pediatric Hematology/Oncology distinguished career award goes to Laurence A. Boxer, MD. <i>Pediatric Blood and Cancer</i> , 2008, 50, 1121-1122.	0.8	1
89	Mild Microcytic Anemia in an Infant with a Compound Heterozygosity for Hb C (HBB: c.19G>A) and Hb Osu Christiansborg (HBB: c.157G>A). <i>Hemoglobin</i> , 2016, 40, 208-209.	0.4	1
90	How I approach a new series in <i>Pediatric Blood & Cancer</i> . <i>Pediatric Blood and Cancer</i> , 2018, 65, e26994.	0.8	1

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91	The phosphate moiety of phosphoenolpyruvate does NOT contribute to allosteric regulation of liver pyruvate kinase by fructose-1,6-bisphosphate. Archives of Biochemistry and Biophysics, 2020, 695, 108633.	1.4	1
92	Clinical Outcomes for Patients with Severe Chronic Neutropenia Due to Mutations in the Gene for Neutrophil Elastase, ELANE. Blood, 2012, 120, 3275-3275.	0.6	1
93	Impact of G-CSF on Outcomes of Pregnancy in Women with Severe Chronic Neutropenia. Blood, 2011, 118, 4786-4786.	0.6	1
94	The Phenotypic Spectrum of Pyruvate Kinase Deficiency (PKD) from the PKD Natural History Study (NHS): Description of Four Severity Groups By Anemia Status. Blood, 2015, 126, 2136-2136.	0.6	1
95	Long Term Outcomes for Patients with Cyclic Neutropenia Treated with Granulocyte Colony-Stimulating Factor (G-CSF). Blood, 2015, 126, 996-996.	0.6	1
96	Iron Overload Is Highly Prevalent in All Disease Severity States in Pyruvate Kinase Deficiency (PKD). Blood, 2016, 128, 2430-2430.	0.6	1
97	Health Related Quality of Life and Fatigue in Patients with Pyruvate Kinase Deficiency. Blood, 2018, 132, 4807-4807.	0.6	1
98	Shwachman-Diamond in the rough. Blood, 2005, 106, 1140-1141.	0.6	0
99	Laurence A. Boxer, MD, 1940-2017. Pediatric Blood and Cancer, 2017, 64, e26506.	0.8	0
100	Identification of New Rare Sequence Changes in RP Genes in Diamond-Blackfan Anemia and Association of the RPL5 and RPL11 Mutations with Craniofacial and Thumb Malformations. Blood, 2008, 112, 39-39.	0.6	0
101	Regulation of White Cell Development.. Blood, 2009, 114, SCI-9-SCI-9.	0.6	0
102	Clinical Features of Shwachman-Diamond Syndrome Patients Lacking Biallelic SBDS Mutation. Blood, 2011, 118, 4367-4367.	0.6	0
103	ELANE Mutations in Cyclic and Congenital Neutropenia: Genotype-Phenotype Relationships,. Blood, 2011, 118, 3398-3398.	0.6	0
104	Modeling of M2-PYK to show Possible "Drugable Sights" in Cancer Cells. FASEB Journal, 2012, 26, lb272.	0.2	0
105	The Natural History of Cyclic Neutropenia: Long-Term Prospective Observations and Current Perspectives.. Blood, 2012, 120, 2141-2141.	0.6	0
106	"Hard Core" Acetyl Coenzyme A Carboxylase. FASEB Journal, 2015, 29, LB69.	0.2	0