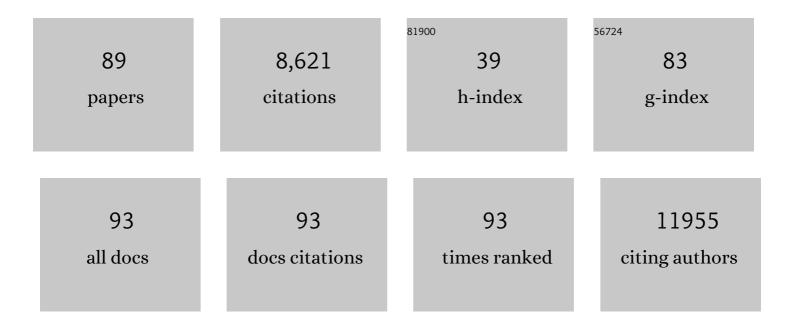
Zuben E Sauna

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A "Silent" Polymorphism in the <i>MDR</i> 1 Gene Changes Substrate Specificity. Science, 2007, 315, 525-528.	12.6	2,230
2	P-glycoprotein: from genomics to mechanism. Oncogene, 2003, 22, 7468-7485.	5.9	956
3	Understanding the contribution of synonymous mutations to human disease. Nature Reviews Genetics, 2011, 12, 683-691.	16.3	815
4	Recent advances in (therapeutic protein) drug development. F1000Research, 2017, 6, 113.	1.6	348
5	Exposing synonymous mutations. Trends in Genetics, 2014, 30, 308-321.	6.7	272
6	Synonymous Mutations and Ribosome Stalling Can Lead to Altered Folding Pathways and Distinct Minima. Journal of Molecular Biology, 2008, 383, 281-291.	4.2	230
7	Silent Polymorphisms Speak: How They Affect Pharmacogenomics and the Treatment of Cancer. Cancer Research, 2007, 67, 9609-9612.	0.9	219
8	Silent (Synonymous) SNPs: Should We Care About Them?. Methods in Molecular Biology, 2009, 578, 23-39.	0.9	214
9	The power of the pump: Mechanisms of action of P-glycoprotein (ABCB1). European Journal of Pharmaceutical Sciences, 2006, 27, 392-400.	4.0	196
10	Prevalence of Pre-existing Antibodies to CRISPR-Associated Nuclease Cas9 in the USA Population. Molecular Therapy - Methods and Clinical Development, 2018, 10, 105-112.	4.1	181
11	Selective Toxicity of NSC73306 in MDR1-Positive Cells as a New Strategy to Circumvent Multidrug Resistance in Cancer. Cancer Research, 2006, 66, 4808-4815.	0.9	162
12	The A-loop, a novel conserved aromatic acid subdomain upstream of the Walker A motif in ABC transporters, is critical for ATP binding. FEBS Letters, 2006, 580, 1049-1055.	2.8	146
13	Fc fusion as a platform technology: potential for modulating immunogenicity. Trends in Biotechnology, 2015, 33, 27-34.	9.3	135
14	About a switch: how P-glycoprotein (ABCB1) harnesses the energy of ATP binding and hydrolysis to do mechanical work. Molecular Cancer Therapeutics, 2007, 6, 13-23.	4.1	132
15	Importance of the Conserved Walker B Glutamate Residues, 556 and 1201, for the Completion of the Catalytic Cycle of ATP Hydrolysis by Human P-glycoprotein (ABCB1). Biochemistry, 2002, 41, 13989-14000.	2.5	99
16	Large scale analysis of the mutational landscape in HT-SELEX improves aptamer discovery. Nucleic Acids Research, 2015, 43, 5699-5707.	14.5	97
17	Mutational Analysis of ABCG2:  Role of the GXXXG Motif. Biochemistry, 2004, 43, 9448-9456.	2.5	96
18	Catalytic Cycle of ATP Hydrolysis by P-Glycoprotein:  Evidence for Formation of the E·S Reaction	2.5	95

¹⁸ Intermediate with ATP-Î³-S, a Nonhýdrolýzable Analogue of ATP. Biochemistry, 2007, 46, 13787-13799.

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19	Immunogenicity assessment during the development of protein therapeutics. Journal of Pharmacy and Pharmacology, 2018, 70, 584-594.	2.4	94
20	The Molecular Basis of the Action of Disulfiram as a Modulator of the Multidrug Resistance-Linked ATP Binding Cassette Transporters MDR1 (ABCB1) and MRP1 (ABCC1). Molecular Pharmacology, 2004, 65, 675-684.	2.3	91
21	Disulfiram, an old drug with new potential therapeutic uses for human cancers and fungal infections. Molecular BioSystems, 2005, 1, 127.	2.9	90
22	A novel way to spread drug resistance in tumor cells: functional intercellular transfer of P-glycoprotein (ABCB1). Trends in Pharmacological Sciences, 2005, 26, 385-387.	8.7	86
23	Identification of sequence–structure RNA binding motifs for SELEX-derived aptamers. Bioinformatics, 2012, 28, i215-i223.	4.1	85
24	Evaluating and Mitigating the Immunogenicity of Therapeutic Proteins. Trends in Biotechnology, 2018, 36, 1068-1084.	9.3	79
25	Building better drugs: developing and regulating engineered therapeutic proteins. Trends in Pharmacological Sciences, 2013, 34, 534-548.	8.7	77
26	Genomics and the mechanism of P-glycoprotein (ABCB1). Journal of Bioenergetics and Biomembranes, 2007, 39, 481-487.	2.3	76
27	AptaCluster – A Method to Cluster HT-SELEX Aptamer Pools and Lessons from Its Application. Lecture Notes in Computer Science, 2014, 8394, 115-128.	1.3	71
28	Single synonymous mutation in factor IX alters protein properties and underlies haemophilia B. Journal of Medical Genetics, 2017, 54, 338-345.	3.2	66
29	Characterization of Coding Synonymous and Non-Synonymous Variants in ADAMTS13 Using Ex Vivo and In Silico Approaches. PLoS ONE, 2012, 7, e38864.	2.5	61
30	Mutations Define Cross-talk between the N-terminal Nucleotide-binding Domain and Transmembrane Helix-2 of the Yeast Multidrug Transporter Pdr5. Journal of Biological Chemistry, 2008, 283, 35010-35022.	3.4	60
31	Endogenous factor VIII synthesis from the intron 22–inverted F8 locus may modulate the immunogenicity of replacement therapy for hemophilia A. Nature Medicine, 2013, 19, 1318-1324.	30.7	59
32	Biochemical Basis of Polyvalency as a Strategy for Enhancing the Efficacy of P-Glycoprotein (ABCB1) Modulators:Â Stipiamide Homodimers Separated with Defined-Length Spacers Reverse Drug Efflux with Greater Efficacy. Biochemistry, 2004, 43, 2262-2271.	2.5	58
33	Post hoc assessment of the immunogenicity of bioengineered factor VIIa demonstrates the use of preclinical tools. Science Translational Medicine, 2017, 9, .	12.4	57
34	The Conserved Tyrosine Residues 401 and 1044 in ATP Sites of Human P-Glycoprotein Are Critical for ATP Binding and Hydrolysis:  Evidence for a Conserved Subdomain, the A-Loop in the ATP-Binding Cassette. Biochemistry, 2006, 45, 7605-7616.	2.5	56
35	Disulfiram is a potent modulator of multidrug transporter Cdr1p of Candida albicans. Biochemical and Biophysical Research Communications, 2004, 322, 520-525.	2.1	53
36	Complete Inhibition of the Pdr5p Multidrug Efflux Pump ATPase Activity by Its Transport Substrate Clotrimazole Suggests that GTP as Well as ATP May Be Used as an Energy Source. Biochemistry, 2007, 46, 13109-13119.	2.5	52

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37	Multidrug Resistance Protein 4 (ABCC4)-mediated ATP Hydrolysis. Journal of Biological Chemistry, 2004, 279, 48855-48864.	3.4	49
38	The sounds of silence: synonymous mutations affect function. Pharmacogenomics, 2007, 8, 527-532.	1.3	47
39	The Signaling Interface of the Yeast Multidrug Transporter Pdr5 Adopts a Cis Conformation, and There Are Functional Overlap and Equivalence of the Deviant and Canonical Q-Loop Residues. Biochemistry, 2010, 49, 4440-4449.	2.5	41
40	Exploiting Reaction Intermediates of the ATPase Reaction to Elucidate the Mechanism of Transport by P-glycoprotein (ABCB1). Journal of Biological Chemistry, 2006, 281, 26501-26511.	3.4	39
41	Effects of codon optimization on coagulation factor IX translation and structure: Implications for protein and gene therapies. Scientific Reports, 2019, 9, 15449.	3.3	38
42	Aptamers as a Sensitive Tool to Detect Subtle Modifications in Therapeutic Proteins. PLoS ONE, 2012, 7, e31948.	2.5	35
43	Pharmacogenetics and the immunogenicity of protein therapeutics. Nature Biotechnology, 2011, 29, 870-873.	17.5	31
44	Polymorphisms in the F8 Gene and MHC-II Variants as Risk Factors for the Development of Inhibitory Anti-Factor VIII Antibodies during the Treatment of Hemophilia A: A Computational Assessment. PLoS Computational Biology, 2013, 9, e1003066.	3.2	30
45	Role of microRNAs in Hemophilia and Thrombosis in Humans. International Journal of Molecular Sciences, 2020, 21, 3598.	4.1	27
46	Elf1p, a Member of the ABC Class of ATPases, Functions as a mRNA Export Factor in Schizosacchromyces pombe. Journal of Biological Chemistry, 2002, 277, 33580-33589.	3.4	22
47	The intron-22–inverted F8 locus permits factor VIII synthesis: explanation for low inhibitor risk and a role for pharmacogenomics. Blood, 2015, 125, 223-228.	1.4	22
48	Small ncRNA Expression-Profiling of Blood from Hemophilia A Patients Identifies miR-1246 as a Potential Regulator of Factor 8 Gene. PLoS ONE, 2015, 10, e0132433.	2.5	22
49	Clinical manifestation of hemophilia A in the absence of mutations in the <i>F8</i> gene that encodes FVIII: role of microRNAs. Transfusion, 2020, 60, 401-413.	1.6	22
50	Peptides identified on monocyte-derived dendritic cells: a marker for clinical immunogenicity to FVIII products. Blood Advances, 2019, 3, 1429-1440.	5.2	20
51	Genetic determinants of immunogenicity to factorIXduring the treatment of haemophilia B. Haemophilia, 2015, 21, 210-218.	2.1	18
52	Fc-Fusion Drugs Have Fcl̂³R/C1q Binding and Signaling Properties That May Affect Their Immunogenicity. AAPS Journal, 2019, 21, 62.	4.4	15
53	Efficient Propagation of Circulating Tumor Cells: A First Step for Probing Tumor Metastasis. Cancers, 2020, 12, 2784.	3.7	14
54	Editorial: Immunogenicity of Proteins Used as Therapeutics. Frontiers in Immunology, 2020, 11, 614856.	4.8	14

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55	Inhibition of Multidrug Resistance-Linked P-Glycoprotein (ABCB1) Function by 5′-Fluorosulfonylbenzoyl 5′-Adenosine: Evidence for an ATP Analogue That Interacts with Both Drug-Substrate-and Nucleotide-Binding Sites. Biochemistry, 2011, 50, 3724-3735.	2.5	13
56	TCPro: an In Silico Risk Assessment Tool for Biotherapeutic Protein Immunogenicity. AAPS Journal, 2019, 21, 96.	4.4	13
57	Cyclosporin A Impairs the Secretion and Activity of ADAMTS13 (A Disintegrin and Metalloprotease with) Tj ETQq1	1.0.7843 3.4	14 rgBT /O
58	Cas9-derived peptides presented by MHC Class II that elicit proliferation of CD4+ T-cells. Nature Communications, 2021, 12, 5090.	12.8	12
59	Characterization of Conformation-Sensitive Antibodies to ADAMTS13, the von Willebrand Cleavage Protease. PLoS ONE, 2009, 4, e6506.	2.5	12
60	Nonequivalence of the Nucleotide Binding Domains of the ArsA ATPase. Journal of Biological Chemistry, 2005, 280, 9921-9926.	3.4	10
61	Pharmacogenetics and the Immunogenicity of Protein Therapeutics. Journal of Interferon and Cytokine Research, 2014, 34, 931-937.	1.2	10
62	Secondary failure: immune responses to approved protein therapeutics. Trends in Molecular Medicine, 2021, 27, 1074-1083.	6.7	9
63	Plasma derivatives: New products and new approaches. Biologicals, 2012, 40, 191-195.	1.4	8
64	Further Evidence That MicroRNAs Can Play a Role in Hemophilia A Disease Manifestation: F8 Gene Downregulation by miR-19b-3p and miR-186-5p. Frontiers in Cell and Developmental Biology, 2020, 8, 669.	3.7	8
65	Detection of Intracellular Factor VIII Protein in Peripheral Blood Mononuclear Cells by Flow Cytometry. BioMed Research International, 2013, 2013, 1-8.	1.9	7
66	Translational and transcriptional responses in human primary hepatocytes under hypoxia. American Journal of Physiology - Renal Physiology, 2019, 316, G720-G734.	3.4	7
67	Mitigation of T-cell dependent immunogenicity by reengineering factor VIIa analogue. Blood Advances, 2019, 3, 2668-2678.	5.2	7
68	Mathematical model of a personalized neoantigen cancer vaccine and the human immune system. PLoS Computational Biology, 2021, 17, e1009318.	3.2	7
69	Modulating immunogenicity of factor IX by fusion to an immunoglobulin Fc domain: a study using a hemophilia B mouse model. Journal of Thrombosis and Haemostasis, 2017, 15, 721-734.	3.8	6
70	SampPick: Selection of a Cohort of Subjects Matching a Population HLA Distribution. Frontiers in Immunology, 2019, 10, 2894.	4.8	6
71	Modified aptamers as reagents to characterize recombinant human erythropoietin products. Scientific Reports, 2020, 10, 18593.	3.3	6
72	Single-nucleotide variations defining previously unreportedADAMTS13haplotypes are associated with differential expression and activity of the VWF-cleaving protease in a Salvadoran congenital thrombotic thrombocytopenic purpura family. British Journal of Haematology, 2014, 165, 154-158.	2.5	5

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73	The Synonymous V107V Mutation In Factor IX Is Not So Silent and May Cause Hemophilia B In Patients. Blood, 2010, 116, 2197-2197.	1.4	5
74	A Foundational Study for Normal F8-Containing Mouse Models for the miRNA Regulation of Hemophilia A: Identification and Analysis of Mouse miRNAs that Downregulate the Murine F8 Gene. International Journal of Molecular Sciences, 2020, 21, 5621.	4.1	4
75	HLA Variants and Inhibitor Development in Hemophilia A: A Retrospective Case-Controlled Study Using the ATHNdataset. Frontiers in Medicine, 2021, 8, 663396.	2.6	4
76	Detection of intracellular ADAMTS13, a secreted zincâ€metalloprotease, via flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 675-681.	1.5	3
77	Quantitative HLAâ€classâ€II/factor VIII (FVIII) peptidomic variation in dendritic cells correlates with the immunogenic potential of therapeutic FVIII proteins in hemophilia A. Journal of Thrombosis and Haemostasis, 2020, 18, 201-216.	3.8	3
78	Personalized approaches to the treatment of hemophilia A and B. Personalized Medicine, 2015, 12, 403-415.	1.5	2
79	Factor VIII-Fc Activates Natural Killer Cells via Fc-Mediated Interactions With CD16. Frontiers in Immunology, 2021, 12, 692157.	4.8	2
80	Endotoxin contamination in commercially available Cas9 proteins potentially induces T-cell mediated responses. Gene Therapy, 2021, , .	4.5	2
81	Mapping Conformational Changes Associated with the Catalytic Cycle of Human P-Glycoprotein (ABCB1). Biophysical Journal, 2012, 102, 606a-607a.	0.5	1
82	Higher-Order Structure and Protein Aggregate Characterization of Protein Therapeutics: Perspectives from Good Manufacturing Practices and Regulatory Guidance. , 2013, , 261-281.		1
83	The Entire Primary Sequence of Factor VIII Is Synthesized As Two Polypeptide Chains in Hemophilia A Patients with the Intron-22-Inversion. Blood, 2011, 118, 1176-1176.	1.4	1
84	TCPRO: An In-Silico Risk Assessment Tool for Biotherapeutic Protein Immunogenicity. Biophysical Journal, 2019, 116, 563a.	0.5	0
85	Single and Codon-Optimized Synonymous Mutations in Factor IX Alter Protein Properties. Blood, 2011, 118, 1185-1185.	1.4	0
86	F8 and HLA-II Haplotypes in the Hispanic Population: Implications for Inhibitor Risk Development in Hispanic Hemophilia A Patients. Blood, 2012, 120, 3365-3365.	1.4	0
87	Secretion and Activity of ADAMTS13 Are Impaired by Cyclosporin A. Blood, 2012, 120, 3349-3349.	1.4	0
88	Common SNPs within or near Three Immune Response Genes Implicated in the Risk of FVIII Immunogenicity in Hemophilia A Do Not Influence Steady-State Levels of Their Encoded mRNAs. Blood, 2012, 120, 3366-3366.	1.4	0
89	Single-Nucleotide Variations Defining Previously Unreported ADAMTS13 Haplotypes Are Associated With Differential Expression and Activity Of The VWF-Cleaving Protease In a Salvadoran Congenital Thrombotic Thrombocytopenic Purpura Family. Blood, 2013, 122, 2319-2319.	1.4	0