

William P Sheffield

List of Publications by Year in descending order

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116
papers

1,828
citations

304743

22
h-index

345221

36
g-index

122
all docs

122
docs citations

122
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenging the 30-minute rule for thawed plasma. <i>Vox Sanguinis</i> , 2022, 117, 328-336.	1.5	3
2	Rejuvenated and safe: Freeze-dried plasma for the 21st century. <i>Transfusion</i> , 2022, 62, 257-260.	1.6	2
3	Inductively-Coupled Plasma Mass Spectrometry—Novel Insights From an Old Technology Into Stressed Red Blood Cell Physiology. <i>Frontiers in Physiology</i> , 2022, 13, 828087.	2.8	5
4	Retention of hemostatic and immunological properties of frozen plasma and COVID-19 convalescent apheresis fresh-frozen plasma produced and freeze-dried in Canada. <i>Transfusion</i> , 2022, 62, 418-428.	1.6	14
5	Spotlight on animal models of acute traumatic coagulopathy: An update. <i>Transfusion and Apheresis Science</i> , 2022, , 103412.	1.0	6
6	Minimal impact of anticoagulant on in vitro whole blood quality throughout a 35-day cold storage regardless of leukoreduction timing. <i>Transfusion</i> , 2022, 62, .	1.6	2
7	Stepwise Reversion of Multiply Mutated Recombinant Antitrypsin Reveals a Selective Inhibitor of Coagulation Factor XIa as Active as the M358R Variant. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 647405.	2.4	1
8	Identification of an alpha-1 antitrypsin variant with enhanced specificity for factor XIa by phage display, bacterial expression, and combinatorial mutagenesis. <i>Scientific Reports</i> , 2021, 11, 5565.	3.3	4
9	Selection and in vitro and in vivo characterization of a Kunitz protease inhibitor domain of protease nexin 2 variant that inhibits factor XIa without inhibiting plasmin. <i>Journal of Biotechnology</i> , 2021, 330, 61-69.	3.8	3
10	Pathogen reduction of whole blood: Supplementing fibrinogen partly corrects clot formation in a massive transfusion model. <i>Transfusion</i> , 2021, 61, 1884-1893.	1.6	0
11	Cold-stored leukoreduced whole blood: Extending the time between donation and filtration has minimal impact on in vitro quality. <i>Transfusion</i> , 2021, 61, S131-S143.	1.6	5
12	Blood bank storage of red blood cells increases RBC cytoplasmic membrane order and bending rigidity. <i>PLoS ONE</i> , 2021, 16, e0259267.	2.5	18
13	Engineering the serpin α_1 -antitrypsin: A diversity of goals and techniques. <i>Protein Science</i> , 2020, 29, 856-871.	7.6	20
14	Stabilization of Lipid Membranes through Partitioning of the Blood Bag Plasticizer Di-2-ethylhexyl phthalate (DEHP). <i>Langmuir</i> , 2020, 36, 11899-11907.	3.5	15
15	Thrombospondin-1/CD47 signaling modulates transmembrane cation conductance, survival, and deformability of human red blood cells. <i>Cell Communication and Signaling</i> , 2020, 18, 155.	6.5	14
16	Decoding the metabolic landscape of pathophysiological stress-induced cell death in anucleate red blood cells. <i>Blood Transfusion</i> , 2020, 18, 130-142.	0.4	18
17	Prothrombin, alone or in complex concentrates or plasma, reduces bleeding in a mouse model of blood exchange-induced coagulopathy. <i>Scientific Reports</i> , 2019, 9, 13029.	3.3	3
18	Bacterial neuraminidase-mediated erythrocyte desialylation provokes cell surface aminophospholipid exposure. <i>European Journal of Haematology</i> , 2018, 100, 502-510.	2.2	8

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19	Thromboelastometry reveals similar hemostatic properties of purified fibrinogen and a mixture of purified cryoprecipitate protein components. <i>Clinical Chemistry and Laboratory Medicine</i> , 2018, 56, e210-e213.	2.3	0
20	Fusion to Human Serum Albumin Extends the Circulatory Half-Life and Duration of Antithrombotic Action of the Kunitz Protease Inhibitor Domain of Protease Nexin 2. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 772-782.	1.6	8
21	Red blood cells, still vital after all these years: Commentary on Canadian Blood Servicesâ€™ International Symposium 2017. <i>Transfusion and Apheresis Science</i> , 2018, 57, 298-303.	1.0	1
22	A factor XIa-activatable hirudin-albumin fusion protein reduces thrombosis in mice without promoting blood loss. <i>BMC Biotechnology</i> , 2018, 18, 21.	3.3	7
23	Extending the pre-processing holding time of whole blood beyond 48h reduces coagulation FVIII activity and immunoglobulin G content of recovered plasma. <i>Transfusion and Apheresis Science</i> , 2018, 57, 768-772.	1.0	0
24	Serpin Phage Display: The Use of a T7 System to Probe Reactive Center Loop Libraries with Different Serine Proteinases. <i>Methods in Molecular Biology</i> , 2018, 1826, 41-64.	0.9	4
25	Intersecting Worlds of Transfusion and Transplantation Medicine: An International Symposium Organized by the Canadian Blood Services Centre for Innovation. <i>Transfusion Medicine Reviews</i> , 2017, 31, 183-192.	2.0	4
26	Bacteria can proliferate in thawed cryoprecipitate stored at room temperature for longer than 4h. <i>Vox Sanguinis</i> , 2017, 112, 477-479.	1.5	12
27	Comparison of bacterial attachment to platelet bags with and without preconditioning with plasma. <i>Vox Sanguinis</i> , 2017, 112, 401-407.	1.5	8
28	Selection and characterization of a DNA aptamer inhibiting coagulation factor XIa. <i>Scientific Reports</i> , 2017, 7, 2102.	3.3	37
29	Early γ -irradiation and subsequent storage of red cells in SAG-M additive solution potentiate energy imbalance, microvesiculation and susceptibility to stress-induced apoptotic cell death. <i>Vox Sanguinis</i> , 2017, 112, 480-483.	1.5	21
30	Pathogen inactivation by riboflavin and ultraviolet light illumination accelerates the red blood cell storage lesion and promotes eryptosis. <i>Transfusion</i> , 2017, 57, 661-673.	1.6	33
31	Quality and Safety of Blood Products. <i>Journal of Blood Transfusion</i> , 2016, 2016, 1-2.	3.3	11
32	Quality Assessment of Established and Emerging Blood Components for Transfusion. <i>Journal of Blood Transfusion</i> , 2016, 2016, 1-28.	3.3	57
33	Stability of Thawed Apheresis Fresh-Frozen Plasma Stored for up to 120 Hours at 1°C to 6°C. <i>Journal of Blood Transfusion</i> , 2016, 2016, 1-7.	3.3	11
34	The M358R variant of α 1-proteinase inhibitor inhibits coagulation factor VIIa. <i>Biochemical and Biophysical Research Communications</i> , 2016, 470, 710-713.	2.1	4
35	Stability of coagulation protein activities in single units or pools of cryoprecipitate during storage at 20-24°C for up to 24h. <i>Vox Sanguinis</i> , 2016, 110, 12-19.	1.5	15
36	Phosphatidylserine externalization and procoagulant activation of erythrocytes induced by <i>Pseudomonas aeruginosa</i> virulence factor pyocyanin. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 710-720.	3.6	81

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37	Monovalent Fc receptor blockade by an anti-Fc β receptor/albumin fusion protein ameliorates murine ITP with abrogated toxicity. <i>Blood</i> , 2016, 127, 132-138.	1.4	23
38	Thrombolysis by chemically modified coagulation factor Xa. <i>Journal of Thrombosis and Haemostasis</i> , 2016, 14, 1844-1854.	3.8	6
39	CD44 Antibody Inhibition of Macrophage Phagocytosis Targets Fc β Receptor and Complement Receptor 3-Dependent Mechanisms. <i>Journal of Immunology</i> , 2016, 196, 3331-3340.	0.8	25
40	Accelerated apoptotic death and in vivo turnover of erythrocytes in mice lacking functional mitogen- and stress-activated kinase MSK1/2. <i>Scientific Reports</i> , 2015, 5, 17316.	3.3	49
41	Fluorous Analogue of Chloramine-T: Preparation, X-ray Structure Determination, and Use as an Oxidant for Radioiodination and s-Tetrazine Synthesis. <i>Journal of Organic Chemistry</i> , 2015, 80, 7117-7125.	3.2	13
42	Comparison of mammalian and bacterial expression library screening to detect recombinant alpha-1 proteinase inhibitor variants with enhanced thrombin inhibitory capacity. <i>Journal of Biotechnology</i> , 2015, 208, 54-62.	3.8	1
43	A plasmin-activatable thrombin inhibitor reduces experimental thrombosis and assists experimental thrombolysis in murine models. <i>Journal of Thrombosis and Thrombolysis</i> , 2015, 39, 443-451.	2.1	8
44	Whole blood treated with riboflavin and ultraviolet light: quality assessment of all blood components produced by the buffy coat method. <i>Transfusion</i> , 2015, 55, 815-823.	1.6	33
45	The fibrinogen but not the factor VIII content of transfused plasma determines its effectiveness at reducing bleeding in coagulopathic mice. <i>Transfusion</i> , 2015, 55, 1040-1050.	1.6	8
46	Stability of relevant plasma protein activities in cryosupernatant plasma units during refrigerated storage for up to 5 days postthaw. <i>Transfusion</i> , 2014, 54, 418-425.	1.6	9
47	Alpha-1 Acid Glycoprotein Reduces Hepatic Leukocyte Recruitment in Murine Models of Either Early Endotoxemia or Early Sepsis. <i>Microcirculation</i> , 2014, 21, 74-83.	1.8	9
48	AT-195A thrombin reduces the anticoagulant effects of dabigatran in vitro and in vivo. <i>Journal of Thrombosis and Haemostasis</i> , 2014, 12, 1110-1115.	3.8	14
49	Alpha-1 proteinase inhibitor M358R reduces thrombin generation when displayed on the surface of cells expressing tissue factor. <i>Thrombosis Research</i> , 2014, 134, 1142-1149.	1.7	1
50	Phage Display of the Serpin Alpha-1 Proteinase Inhibitor Randomized at Consecutive Residues in the Reactive Centre Loop and Biopanned with or without Thrombin. <i>PLoS ONE</i> , 2014, 9, e84491.	2.5	13
51	The complete N-terminal extension of heparin cofactor II is required for maximal effectiveness as a thrombin exosite 1 ligand. <i>BMC Biochemistry</i> , 2013, 14, 6.	4.4	5
52	Expression screening of bacterial libraries of recombinant alpha-1 proteinase inhibitor variants for candidates with thrombin inhibitory capacity. <i>Journal of Biotechnology</i> , 2013, 168, 373-381.	3.8	5
53	Fusion of the C-terminal triskaidecapeptide of hirudin variant 3 to alpha-1-proteinase inhibitor M358R increases the serpin-mediated rate of thrombin inhibition. <i>BMC Biochemistry</i> , 2013, 14, 31.	4.4	3
54	Quality of frozen transfusable plasma prepared from whole blood donations in Canada: An update. <i>Transfusion and Apheresis Science</i> , 2013, 49, 440-446.	1.0	10

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55	Process Improvement by Eliminating Mixing of Whole Blood Units after an Overnight Hold Prior to Component Production Using the Buffy Coat Method. <i>Journal of Blood Transfusion</i> , 2013, 2013, 1-7.	3.3	5
56	Covalent Stabilization Of Coagulation Factor Xa Enhances Its Fibrinolytic Function In Vitro and In Vivo: A Novel Cofactor-Based Thrombolytic Agent. <i>Blood</i> , 2013, 122, 204-204.	1.4	0
57	<i>In Vivo</i> Clearance of Alpha-1 Acid Glycoprotein Is Influenced by the Extent of Its N-Linked Glycosylation and by Its Interaction with the Vessel Wall. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-11.	3.0	10
58	Reduction of thrombus size in murine models of thrombosis following administration of recombinant \pm 1-proteinase inhibitor mutant proteins. <i>Thrombosis and Haemostasis</i> , 2012, 107, 972-984.	3.4	17
59	Prothrombin complex concentrates reduce blood loss in murine coagulopathy induced by warfarin, but not in that induced by dabigatran etexilate. <i>Journal of Thrombosis and Haemostasis</i> , 2012, 10, 1830-1840.	3.8	89
60	Changes in coagulation factor activity and content of di(2-ethylhexyl)phthalate in frozen plasma units during refrigerated storage for up to five days after thawing. <i>Transfusion</i> , 2012, 52, 493-502.	1.6	29
61	Characterization of a long-acting recombinant human serum albumin-atrial natriuretic factor (ANF) expressed in <i>Pichia pastoris</i> . <i>Regulatory Peptides</i> , 2012, 175, 7-10.	1.9	24
62	Lipoprotein enrichment in orange insoluble particulate matter reproducibly appearing in cryoprecipitate. <i>Vox Sanguinis</i> , 2011, 100, 422-425.	1.5	0
63	Retention of thrombin inhibitory activity by recombinant serpins expressed as integral membrane proteins tethered to the surface of mammalian cells. <i>Journal of Thrombosis and Haemostasis</i> , 2011, 9, 2424-2435.	3.8	6
64	Incorporation of albumin fusion proteins into fibrin clots in vitro and in vivo: comparison of different fusion motifs recognized by factor XIIIa. <i>BMC Biotechnology</i> , 2011, 11, 127.	3.3	8
65	Comparison of Methods for the Purification of Alpha-1 Acid Glycoprotein from Human Plasma. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-9.	3.0	5
66	Sporadic formation of cryoprecipitate-like particulate matter in thawed fresh-frozen plasma units. <i>Transfusion</i> , 2010, 50, 949-950.	1.6	2
67	Conversion to the buffy coat method and quality of frozen plasma derived from whole blood donations in Canada. <i>Transfusion</i> , 2010, 50, 1043-1049.	1.6	22
68	A long-lasting, plasmin-activatable thrombin inhibitor aids clot lysis in vitro and does not promote bleeding in vivo. <i>Thrombosis and Haemostasis</i> , 2009, 101, 867-877.	3.4	19
69	Addition of a sequence from \pm 2-antiplasmin transforms human serum albumin into a blood clot component that speeds clot lysis. <i>BMC Biotechnology</i> , 2009, 9, 15.	3.3	10
70	A long-lasting, plasmin-activatable thrombin inhibitor aids clot lysis in vitro and does not promote bleeding in vivo. <i>Thrombosis and Haemostasis</i> , 2009, 101, 867-77.	3.4	5
71	Factor VIIa gets even bigger. <i>Thrombosis and Haemostasis</i> , 2008, 99, 653-654.	3.4	0
72	Combined administration of barbourin-albumin and hirudin-albumin fusion proteins limits fibrin(ogen) deposition on the rabbit balloon-injured aorta. <i>Thrombosis Research</i> , 2007, 119, 195-207.	1.7	10

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73	The appended tail region of heparin cofactor II and additional reactive centre loop mutations combine to increase the reactivity and specificity of $\hat{I}\pm 1$ -proteinase inhibitor M358R for thrombin. <i>Thrombosis and Haemostasis</i> , 2007, 98, 1014-1023.	3.4	12
74	The appended tail region of heparin cofactor II and additional reactive centre loop mutations combine to increase the reactivity and specificity of alpha1-proteinase inhibitor M358R for thrombin. <i>Thrombosis and Haemostasis</i> , 2007, 98, 1014-23.	3.4	6
75	The Transferable Tail: A Fusion of the N-Terminal Acidic Extension of Heparin Cofactor II to $\hat{I}\pm 1$ -Proteinase Inhibitor M358R Specifically Increases the Rate of Thrombin Inhibition. <i>Biochemistry</i> , 2006, 45, 11444-11452.	2.5	13
76	Investigating serpin enzyme complex formation and stability via single and multiple residue reactive centre loop substitutions in heparin cofactor II. <i>Thrombosis Research</i> , 2006, 117, 447-461.	1.7	11
77	Detection of antibodies reacting with the antithetical duffy blood group antigens Fya and Fyb using recombinant fusion proteins containing the duffy extracellular domain. <i>Transfusion and Apheresis Science</i> , 2006, 35, 207-216.	1.0	5
78	Molecular cloning and functional expression of rabbit $\hat{I}\pm 2$ -antiplasmin. <i>Blood Coagulation and Fibrinolysis</i> , 2006, 17, 283-291.	1.0	3
79	An important role for the activation peptide domain in controlling factor IX levels in the blood of haemophilia B mice. <i>Thrombosis and Haemostasis</i> , 2005, 94, 1138-1147.	3.4	25
80	Recombinant albumins containing additional peptide sequences smaller than barbourin retain the ability of barbourin-albumin to inhibit platelet aggregation. <i>Thrombosis and Haemostasis</i> , 2005, 93, 914-921.	3.4	11
81	Fusion to Albumin as a Means to Slow the Clearance of Small Therapeutic Proteins Using the <i>Pichia pastoris</i> Expression System: A Case Study. , 2005, 308, 145-154.		11
82	Effects of genetic fusion of factor IX to albumin on in vivo clearance in mice and rabbits. <i>British Journal of Haematology</i> , 2004, 126, 565-573.	2.5	29
83	A covalently linked recombinant albumin dimer is more rapidly cleared in vivo than are wild-type and mutant C34A albumin. <i>Translational Research</i> , 2004, 143, 115-124.	2.3	19
84	Full or Partial Substitution of the Reactive Center Loop of $\hat{I}\pm 1$ -Proteinase Inhibitor by that of Heparin Cofactor II: P1 Arg Is Required for Maximal Thrombin Inhibition. <i>Biochemistry</i> , 2004, 43, 14864-14872.	2.5	25
85	Heparin cofactor II is more sensitive than antithrombin to secretory impairment arising from mutations introduced into its carboxy-terminal region. <i>Thrombosis Research</i> , 2004, 113, 163-173.	1.7	5
86	Altering Heparin Cofactor II at VAL439 (P6) either Impairs Inhibition of Thrombin or Confers Elastase Resistance. <i>Thrombosis and Haemostasis</i> , 2002, 88, 89-97.	3.4	13
87	Altering heparin cofactor II at VAL439 (P6) either impairs inhibition of thrombin or confers elastase resistance. <i>Thrombosis and Haemostasis</i> , 2002, 88, 89-97.	3.4	3
88	A Barbourin-albumin Fusion Protein that Is Slowly Cleared In Vivo Retains the Ability to Inhibit Platelet Aggregation In Vitro. <i>Thrombosis and Haemostasis</i> , 2001, 86, 902-908.	3.4	34
89	Prolonged in vivo anticoagulant activity of a hirudin albumin fusion protein secreted from <i>Pichia pastoris</i> . <i>Blood Coagulation and Fibrinolysis</i> , 2001, 12, 433-443.	1.0	26
90	Modification of Clearance of Therapeutic and Potentially Therapeutic Proteins. <i>Current Drug Targets Cardiovascular & Haematological Disorders</i> , 2001, 1, 1-22.	2.0	28

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91	A barbourin-albumin fusion protein that is slowly cleared in vivo retains the ability to inhibit platelet aggregation in vitro. <i>Thrombosis and Haemostasis</i> , 2001, 86, 902-8.	3.4	7
92	Mutation of Any Site of N-Linked Glycosylation Accelerates the In Vivo Clearance of Recombinant Rabbit Antithrombin. <i>Thrombosis Research</i> , 2000, 99, 407-415.	1.7	19
93	Modulation of Clearance of Recombinant Serum Albumin by Either Glycosylation or Truncation. <i>Thrombosis Research</i> , 2000, 99, 613-621.	1.7	27
94	The clearance of thrombin-antithrombin and related serpin-enzyme complexes from the circulation: role of various hepatocyte receptors. <i>Thrombosis and Haemostasis</i> , 1999, 81, 325-37.	3.4	4
95	Cytokeratin 18 Is Expressed on the Hepatocyte Plasma Membrane Surface and Interacts with Thrombin-Antithrombin Complexes. <i>Journal of Biological Chemistry</i> , 1997, 272, 28574-28581.	3.4	56
96	IMPACT OF MUTATIONS AT THE P4 AND P5 POSITIONS ON THE REACTION OF ANTITHROMBIN WITH THROMBIN AND ELASTASE. <i>Thrombosis Research</i> , 1997, 88, 171-181.	1.7	5
97	Potent Antithrombin Activity and Delayed Clearance From the Circulation Characterize Recombinant Hirudin Genetically Fused to Albumin. <i>Blood</i> , 1997, 89, 3243-3252.	1.4	102
98	Concepts and techniques in molecular biology—An overview*. <i>Transfusion Medicine Reviews</i> , 1997, 11, 209-223.	2.0	0
99	Potent antithrombin activity and delayed clearance from the circulation characterize recombinant hirudin genetically fused to albumin. <i>Blood</i> , 1997, 89, 3243-52.	1.4	20
100	INHIBITION OF THROMBIN BY HIRUDIN GENETICALLY FUSED TO WILD-TYPE OR MUTANT ANTITHROMBIN. <i>Thrombosis Research</i> , 1996, 84, 419-429.	1.7	2
101	Deletion mutagenesis of heparin cofactor II: defining the minimum size of a thrombin inhibiting serpin. <i>FEBS Letters</i> , 1995, 365, 189-192.	2.8	10
102	Genetic linkage studies in antithrombin-deficient kindreds using a highly polymorphic trinucleotide short tandem repeat (str) within the human antithrombin gene. <i>American Journal of Hematology</i> , 1994, 46, 107-111.	4.1	4
103	Site-directed mutagenesis of the P2 residue of human antithrombin. <i>FEBS Letters</i> , 1994, 339, 147-150.	2.8	13
104	Characterization of a highly polymorphic trinucleotide short tandem repeat within the human antithrombin gene. <i>Thrombosis Research</i> , 1994, 74, 303-307.	1.7	2
105	Amino acid substitutions of the P2 residue of human antithrombin that either enhance or impair function. <i>Thrombosis Research</i> , 1994, 75, 293-305.	1.7	12
106	Molecular Cloning and Expression of Rabbit Heparin Cofactor II: A Plasma Thrombin Inhibitor Highly Conserved between Species. <i>Thrombosis and Haemostasis</i> , 1994, 71, 778-782.	3.4	10
107	Molecular cloning and expression of rabbit heparin cofactor II: a plasma thrombin inhibitor highly conserved between species. <i>Thrombosis and Haemostasis</i> , 1994, 71, 778-82.	3.4	0
108	Complete nucleotide sequence of the cDNA encoding rabbit coagulation factor VII. <i>Thrombosis Research</i> , 1993, 69, 231-238.	1.7	14

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109	Molecular cloning and cell-free expression of mouse antithrombin III. <i>Thrombosis and Haemostasis</i> , 1992, 68, 291-6.	3.4	6
110	Mitochondrial precursor protein. Effects of 70-kilodalton heat shock protein on polypeptide folding, aggregation, and import competence. <i>Journal of Biological Chemistry</i> , 1990, 265, 11069-76.	3.4	138
111	Import of precursor proteins into mitochondria: site of polypeptide unfolding. <i>Journal of Biological Chemistry</i> , 1990, 265, 9444-51.	3.4	26
112	Regulation of ornithine aminotransferase in retinoblastomas. <i>Journal of Biological Chemistry</i> , 1989, 264, 20513-7.	3.4	9
113	Identification of hydrophobic residues in the signal sequence of mitochondrial preornithine carbamyltransferase that enhance the rate of precursor import.. <i>Journal of Biological Chemistry</i> , 1988, 263, 17233-17236.	3.4	15
114	Identification of hydrophobic residues in the signal sequence of mitochondrial preornithine carbamyltransferase that enhance the rate of precursor import. <i>Journal of Biological Chemistry</i> , 1988, 263, 17233-6.	3.4	11
115	A signal sequence domain essential for processing, but not import, of mitochondrial pre-ornithine carbamyl transferase.. <i>Journal of Cell Biology</i> , 1987, 104, 1193-1198.	5.2	29
116	Expression in <i>Escherichiacoli</i> of functional precursor to the rat liver mitochondrial enzyme, ornithine carbamyl transferase. Precursor import and processing in vitro. <i>Biochemical and Biophysical Research Communications</i> , 1986, 134, 21-28.	2.1	12