

# Nancy C Andrews

## List of Publications by Year in descending order

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138  
papers

25,833  
citations

11651

70  
h-index

14208

128  
g-index

144  
all docs

144  
docs citations

144  
times ranked

18698  
citing authors

#	ARTICLE	IF	CITATIONS
1	A rapid micropreparation technique for extraction of DNA-binding proteins from limiting numbers of mammalian cells. <i>Nucleic Acids Research</i> , 1991, 19, 2499-2499.	14.5	2,268
2	Disorders of Iron Metabolism. <i>New England Journal of Medicine</i> , 1999, 341, 1986-1995.	27.0	1,693
3	Balancing Acts. <i>Cell</i> , 2004, 117, 285-297.	28.9	1,544
4	Positional cloning of zebrafish ferroportin1 identifies a conserved vertebrate iron exporter. <i>Nature</i> , 2000, 403, 776-781.	27.8	1,491
5	Microcytic anaemia mice have a mutation in Nramp2, a candidate iron transporter gene. <i>Nature Genetics</i> , 1997, 16, 383-386.	21.4	1,102
6	The iron exporter ferroportin/Slc40a1 is essential for iron homeostasis. <i>Cell Metabolism</i> , 2005, 1, 191-200.	16.2	1,006
7	Bone morphogenetic protein signaling by hemojuvelin regulates hepcidin expression. <i>Nature Genetics</i> , 2006, 38, 531-539.	21.4	921
8	Interleukin-6 induces hepcidin expression through STAT3. <i>Blood</i> , 2006, 108, 3204-3209.	1.4	782
9	Erythroid transcription factor NF-E2 is a haematopoietic-specific basic leucine zipper protein. <i>Nature</i> , 1993, 362, 722-728.	27.8	641
10	Mutations in TMPRSS6 cause iron-refractory iron deficiency anemia (IRIDA). <i>Nature Genetics</i> , 2008, 40, 569-571.	21.4	586
11	Inappropriate expression of hepcidin is associated with iron refractory anemia: implications for the anemia of chronic disease. <i>Blood</i> , 2002, 100, 3776-3781.	1.4	572
12	Iron Homeostasis. <i>Annual Review of Physiology</i> , 2007, 69, 69-85.	13.1	557
13	Forging a field: the golden age of iron biology. <i>Blood</i> , 2008, 112, 219-230.	1.4	537
14	Autosomal-dominant hemochromatosis is associated with a mutation in the ferroportin (SLC11A3) gene. <i>Journal of Clinical Investigation</i> , 2001, 108, 619-623.	8.2	429
15	Modulation of bone morphogenetic protein signaling in vivo regulates systemic iron balance. <i>Journal of Clinical Investigation</i> , 2007, 117, 1933-1939.	8.2	401
16	Deletion of <i>Trpm7</i> Disrupts Embryonic Development and Thymopoiesis Without Altering Mg <sup>2+</sup> Homeostasis. <i>Science</i> , 2008, 322, 756-760.	12.6	379
17	Transferrin receptor 1 is a cellular receptor for New World haemorrhagic fever arenaviruses. <i>Nature</i> , 2007, 446, 92-96.	27.8	374
18	Iron homeostasis: insights from genetics and animal models. <i>Nature Reviews Genetics</i> , 2000, 1, 208-217.	16.3	352

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19	Slc11a2 is required for intestinal iron absorption and erythropoiesis but dispensable in placenta and liver. <i>Journal of Clinical Investigation</i> , 2005, 115, 1258-1266.	8.2	339
20	A mouse model of juvenile hemochromatosis. <i>Journal of Clinical Investigation</i> , 2005, 115, 2187-2191.	8.2	319
21	The Transferrin Receptor Modulates Hfe-Dependent Regulation of Hepcidin Expression. <i>Cell Metabolism</i> , 2008, 7, 205-214.	16.2	315
22	Hereditary Hemochromatosis Protein, HFE, Interaction with Transferrin Receptor 2 Suggests a Molecular Mechanism for Mammalian Iron Sensing. <i>Journal of Biological Chemistry</i> , 2006, 281, 28494-28498.	3.4	297
23	Constitutive hepcidin expression prevents iron overload in a mouse model of hemochromatosis. <i>Nature Genetics</i> , 2003, 34, 97-101.	21.4	284
24	Anemia of inflammation: the cytokine-hepcidin link. <i>Journal of Clinical Investigation</i> , 2004, 113, 1251-1253.	8.2	283
25	Ineffective erythropoiesis in $\beta^2$ -thalassemia is characterized by increased iron absorption mediated by down-regulation of hepcidin and up-regulation of ferroportin. <i>Blood</i> , 2007, 109, 5027-5035.	1.4	277
26	Regulatory defects in liver and intestine implicate abnormal hepcidin and <i>Cybrd1</i> expression in mouse hemochromatosis. <i>Nature Genetics</i> , 2003, 34, 102-107.	21.4	274
27	Iron-dependent regulation of the divalent metal ion transporter. <i>FEBS Letters</i> , 2001, 509, 309-316.	2.8	269
28	Scara5 Is a Ferritin Receptor Mediating Non-Transferrin Iron Delivery. <i>Developmental Cell</i> , 2009, 16, 35-46.	7.0	264
29	The Maf transcription factors: regulators of differentiation. <i>Trends in Biochemical Sciences</i> , 1997, 22, 437-441.	7.5	254
30	The C282Y Mutation Causing Hereditary Hemochromatosis Does Not Produce a Null Allele. <i>Blood</i> , 1999, 94, 9-11.	1.4	239
31	A missense mutation in <i>TFRC</i> , encoding transferrin receptor 1, causes combined immunodeficiency. <i>Nature Genetics</i> , 2016, 48, 74-78.	21.4	219
32	The iron transporter DMT1. <i>International Journal of Biochemistry and Cell Biology</i> , 1999, 31, 991-994.	2.8	216
33	Comparison of the Interactions of Transferrin Receptor and Transferrin Receptor 2 with Transferrin and the Hereditary Hemochromatosis Protein HFE. <i>Journal of Biological Chemistry</i> , 2000, 275, 38135-38138.	3.4	214
34	Lethal Cardiomyopathy in Mice Lacking Transferrin Receptor in the Heart. <i>Cell Reports</i> , 2015, 13, 533-545.	6.4	213
35	The G185R Mutation Disrupts Function of the Iron Transporter <i>Nramp2</i> . <i>Blood</i> , 1998, 92, 2157-2163.	1.4	210
36	Genes that modify the hemochromatosis phenotype in mice. <i>Journal of Clinical Investigation</i> , 2000, 105, 1209-1216.	8.2	204

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37	Hepcidin as a therapeutic tool to limit iron overload and improve anemia in $\hat{I}^2$ -thalassemic mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 4466-4477.	8.2	202
38	Proinflammatory state, hepcidin, and anemia in older persons. <i>Blood</i> , 2010, 115, 3810-3816.	1.4	191
39	Anemia of inflammation: the hepcidin link. <i>Current Opinion in Hematology</i> , 2005, 12, 107-111.	2.5	169
40	Hepcidin antimicrobial peptide transgenic mice exhibit features of the anemia of inflammation. <i>Blood</i> , 2007, 109, 4038-4044.	1.4	162
41	The molecular defect in hypotransferrinemic mice. <i>Blood</i> , 2000, 96, 1113-1118.	1.4	161
42	Iron Is Essential for Neuron Development and Memory Function in Mouse Hippocampus. <i>Journal of Nutrition</i> , 2009, 139, 672-679.	2.9	159
43	IRONMETABOLISM: Iron Deficiency and Iron Overload. <i>Annual Review of Genomics and Human Genetics</i> , 2000, 1, 75-98.	6.2	156
44	The channel kinase, <i>TRPM7</i> , is required for early embryonic development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E225-33.	7.1	153
45	<i>Cybrd1</i> (duodenal cytochrome b) is not necessary for dietary iron absorption in mice. <i>Blood</i> , 2005, 106, 2879-2883.	1.4	147
46	Down-regulation of Bmp/Smad signaling by <i>Tmprss6</i> is required for maintenance of systemic iron homeostasis. <i>Blood</i> , 2010, 115, 3817-3826.	1.4	145
47	Iron and Copper in Mitochondrial Diseases. <i>Cell Metabolism</i> , 2013, 17, 319-328.	16.2	142
48	<i>Hfe</i> deficiency increases susceptibility to cardiotoxicity and exacerbates changes in iron metabolism induced by doxorubicin. <i>Blood</i> , 2003, 102, 2574-2580.	1.4	139
49	Divalent Metal Transporter 1 Regulates Iron-Mediated ROS and Pancreatic $\hat{I}^2$ Cell Fate in Response to Cytokines. <i>Cell Metabolism</i> , 2012, 16, 449-461.	16.2	133
50	Probucol prevents early coronary heart disease and death in the high-density lipoprotein receptor SR-BI/apolipoprotein E double knockout mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7283-7288.	7.1	132
51	Failure of red blood cell maturation in mice with defects in the high-density lipoprotein receptor SR-BI. <i>Blood</i> , 2002, 99, 1817-1824.	1.4	115
52	Failure of red blood cell maturation in mice with defects in the high-density lipoprotein receptor SR-BI. <i>Blood</i> , 2002, 99, 1817-1824.	1.4	111
53	Disrupted iron homeostasis causes dopaminergic neurodegeneration in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3428-3435.	7.1	109
54	An <i>Hfe</i> -dependent pathway mediates hyposideremia in response to lipopolysaccharide-induced inflammation in mice. <i>Nature Genetics</i> , 2004, 36, 481-485.	21.4	108

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55	Transferrin receptor 1 is differentially required in lymphocyte development. <i>Blood</i> , 2003, 102, 3711-3718.	1.4	103
56	Metal transporters and disease. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 181-186.	6.1	94
57	Hematopoietic-specific Stat5-null mice display microcytic hypochromic anemia associated with reduced transferrin receptor gene expression. <i>Blood</i> , 2008, 112, 2071-2080.	1.4	93
58	Expression of the DMT1 (NRAMP2/DCT1) iron transporter in mice with genetic iron overload disorders. <i>Blood</i> , 2001, 97, 1138-1140.	1.4	90
59	Complexity of CNC Transcription Factors As Revealed by Gene Targeting of the Nrf3 Locus. <i>Molecular and Cellular Biology</i> , 2004, 24, 3286-3294.	2.3	87
60	A mutation in Sec15l1 causes anemia in hemoglobin deficit (hbd) mice. <i>Nature Genetics</i> , 2005, 37, 1270-1273.	21.4	86
61	A mutation in a mitochondrial transmembrane protein is responsible for the pleiotropic hematological and skeletal phenotype of <i>flexed-tail</i> ( <i>f/f</i> ) mice. <i>Genes and Development</i> , 2001, 15, 652-657.	5.9	84
62	The function of heme-regulated eIF2 $\alpha$ kinase in murine iron homeostasis and macrophage maturation. <i>Journal of Clinical Investigation</i> , 2007, 117, 3296-3305.	8.2	81
63	Tmprss6 is a genetic modifier of the Hfe-hemochromatosis phenotype in mice. <i>Blood</i> , 2011, 117, 4590-4599.	1.4	80
64	Human MafG Is a Functional Partner for p45 NF-E2 in Activating Globin Gene Expression. <i>Blood</i> , 1997, 89, 3925-3935.	1.4	79
65	Molecules in focus The NF-E2 transcription factor. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 429-432.	2.8	78
66	Regulation of iron absorption in Hfe mutant mice. <i>Blood</i> , 2002, 100, 1465-1469.	1.4	78
67	The other physician-scientist problem: Where have all the young girls gone?. <i>Nature Medicine</i> , 2002, 8, 439-441.	30.7	78
68	Molecular control of iron metabolism. <i>Best Practice and Research in Clinical Haematology</i> , 2005, 18, 159-169.	1.7	78
69	Chronic hepcidin induction causes hyposideremia and alters the pattern of cellular iron accumulation in hemochromatotic mice. <i>Blood</i> , 2006, 107, 2952-2958.	1.4	75
70	Iron Transport Across Biologic Membranes. <i>Nutrition Reviews</i> , 1999, 57, 114-123.	5.8	75
71	Transferrin is a major determinant of hepcidin expression in hypotransferrinemic mice. <i>Blood</i> , 2011, 117, 630-637.	1.4	71
72	The Ins and Outs of Iron Homeostasis. <i>Physiology</i> , 2006, 21, 115-123.	3.1	69

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73	Noncanonical role of transferrin receptor 1 is essential for intestinal homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11714-11719.	7.1	68
74	Metabolic Catastrophe in Mice Lacking Transferrin Receptor in Muscle. EBioMedicine, 2015, 2, 1705-1717.	6.1	62
75	Genetic variation in Mon1a affects protein trafficking and modifies macrophage iron loading in mice. Nature Genetics, 2007, 39, 1025-1032.	21.4	61
76	A Spontaneous, Recurrent Mutation in Divalent Metal Transporter-1 Exposes a Calcium Entry Pathway. PLoS Biology, 2004, 2, e50.	5.6	60
77	Mouse microcytic anaemia caused by a defect in the gene encoding the globin enhancer-binding protein NF-E2. Nature, 1993, 362, 768-770.	27.8	56
78	Transferrin is required for early T-cell differentiation. Immunology, 2004, 112, 543-549.	4.4	56
79	2002 E. Mead Johnson Award for Research in Pediatrics Lecture: The Molecular Biology of the Anemia of Chronic Disease: A Hypothesis. Pediatric Research, 2003, 53, 507-512.	2.3	53
80	Chapter 6 Iron Homeostasis and Erythropoiesis. Current Topics in Developmental Biology, 2008, 82, 141-167.	2.2	50
81	Skeletal muscle hemojuvelin is dispensable for systemic iron homeostasis. Blood, 2011, 117, 6319-6325.	1.4	50
82	Identification of a novel mutation (C321X) in HJV. Blood, 2004, 104, 2176-2177.	1.4	47
83	Understanding Heme Transport. New England Journal of Medicine, 2005, 353, 2508-2509.	27.0	47
84	Hepcidin, a candidate modifier of the hemochromatosis phenotype in mice. Blood, 2004, 103, 2841-2843.	1.4	46
85	Iron homeostasis and inherited iron overload disorders: an overview. Hematology/Oncology Clinics of North America, 2004, 18, 1379-1403.	2.2	44
86	Late stage erythroid precursor production is impaired in mice with chronic inflammation. Haematologica, 2012, 97, 1648-1656.	3.5	43
87	A genetic view of iron homeostasis. Seminars in Hematology, 2002, 39, 227-234.	3.4	42
88	Climbing through Medicine's Glass Ceiling. New England Journal of Medicine, 2007, 357, 1887-1889.	27.0	42
89	Mammalian iron transport: An unexpected link between metal homeostasis and host defense. Translational Research, 1998, 132, 464-468.	2.3	37
90	Haptoglobin modifies the hemochromatosis phenotype in mice. Blood, 2005, 105, 3353-3355.	1.4	36

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91	Contributions of $\beta$ 2-microglobulin-dependent molecules and lymphocytes to iron regulation: insights from HfeRag1 <sup>-/-</sup> and $\beta$ 2mRag1 <sup>-/-</sup> double knock-out mice. <i>Blood</i> , 2004, 103, 2847-2849.	1.4	31
92	Closing the Iron Gate. <i>New England Journal of Medicine</i> , 2012, 366, 376-377.	27.0	31
93	When Is a Heme Transporter Not a Heme Transporter? When It's a Folate Transporter. <i>Cell Metabolism</i> , 2007, 5, 5-6.	16.2	29
94	Genes determining blood cell traits. <i>Nature Genetics</i> , 2009, 41, 1161-1162.	21.4	29
95	Molecular insights into mechanisms of iron transport. <i>Current Opinion in Hematology</i> , 1999, 6, 61.	2.5	29
96	Hepcidin induction by transgenic overexpression of Hfe does not require the Hfe cytoplasmic tail, but does require hemojuvelin. <i>Blood</i> , 2010, 116, 5679-5687.	1.4	23
97	cAMP-dependent Protein Kinase Is Necessary for Increased NF-E2-DNA Complex Formation during Erythroleukemia Cell Differentiation. <i>Journal of Biological Chemistry</i> , 1995, 270, 9169-9177.	3.4	20
98	Uroporphyrin in Hfe mutant mice given 5-aminolevulinic acid: A new model of Fe-mediated porphyria cutanea tarda. <i>Hepatology</i> , 2001, 33, 406-412.	7.3	20
99	Deficiency of heme-regulated eIF2 kinase decreases hepcidin expression and splenic iron in HFE <sup>-/-</sup> mice. <i>Haematologica</i> , 2008, 93, 753-756.	3.5	20
100	Iron in Skin of Mice with Three Etiologies of Systemic Iron Overload. <i>Journal of Investigative Dermatology</i> , 2005, 125, 1200-1205.	0.7	19
101	Ferritin Out New Mechanisms in Iron Homeostasis. <i>Cell Metabolism</i> , 2010, 12, 203-204.	16.2	17
102	Multiple Proteins Interact with the Nuclear Inhibitory Protein Repressor Element in the Human Interleukin-3 Promoter. <i>Journal of Biological Chemistry</i> , 1995, 270, 24572-24579.	3.4	16
103	Expression of Stimulator of Fe Transport Is Not Enhanced in Hfe Knockout Mice. <i>Journal of Nutrition</i> , 2001, 131, 1459-1464.	2.9	15
104	Erythroid Transcription Factor NF-E2 Coordinates Hemoglobin Synthesis. <i>Pediatric Research</i> , 1994, 36, 419-423.	2.3	14
105	Ectopic Expression of Transcription Factor NF-E2 Alters the Phenotype of Erythroid and Monoblastoid Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 25292-25298.	3.4	13
106	A novel murine protein with no effect on iron homeostasis is homologous with transferrin and is the putative inhibitor of carbonic anhydrase. <i>Biochemical Journal</i> , 2007, 406, 85-95.	3.7	13
107	Evidence generation and reproducibility in cell and gene therapy research: A call to action. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 22, 11-14.	4.1	13
108	Research in academic medical centers: Two threats to sustainable support. <i>Science Translational Medicine</i> , 2015, 7, 289fs22.	12.4	12

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109	The G185R Mutation Disrupts Function of the Iron Transporter Nramp2. <i>Blood</i> , 1998, 92, 2157-2163.	1.4	12
110	Probing the iron pool. Focus on "Detection of intracellular iron by its regulatory effect". <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1537-C1538.	4.6	11
111	Analysis of the E399D mutation in SLC11A2. <i>Blood</i> , 2005, 106, 2221-2222.	1.4	11
112	Molecular Characterization and Localization of the HumanMAFGGene. <i>Genomics</i> , 1997, 44, 147-149.	2.9	10
113	Inherited iron overload disorders. <i>Current Opinion in Pediatrics</i> , 2000, 12, 596-602.	2.0	10
114	Animal Models of Hereditary Iron Transport Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2002, 509, 1-17.	1.6	10
115	Control of Systemic Iron Homeostasis by the 3' UTR Iron-Responsive Element of Divalent Metal Transporter 1 in Mice. <i>HemaSphere</i> , 2020, 4, e459.	2.7	10
116	The molecular defect in hypotransferrinemic mice. <i>Blood</i> , 2000, 96, 1113-1118.	1.4	10
117	Iron metabolism and absorption. <i>Reviews in Clinical and Experimental Hematology</i> , 2000, 4, 283-301.	0.1	7
118	ABCs of erythroid mitochondrial iron uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16012-16013.	7.1	7
119	Iron Deficiency Anemia Associated with an Error of Iron Metabolism in Two Siblings: A Thirty Year Follow Up. <i>Hematology</i> , 1996, 1, 65-73.	1.5	6
120	Hemojuvelin Acts as a Bone Morphogenetic Protein Co-Receptor To Regulate Hepcidin Expression.. <i>Blood</i> , 2005, 106, 511-511.	1.4	5
121	Increased Hepcidin Expression in Mice Affected by $\beta^2$ -Thalassemia Reduces Iron Overload with No Effect on Anemia. <i>Blood</i> , 2008, 112, 128-128.	1.4	4
122	A Mutation in Sec15l1 Disrupts the Transferrin Cycle and Causes Anemia in Hemoglobin Deficit (hbd) Mice.. <i>Blood</i> , 2005, 106, 513-513.	1.4	3
123	Iron Metabolism. , 2006, , 848-853.		2
124	Hepcidin as a Therapeutic Tool to Limit Iron Overload and Improve Anemia In $\beta^2$ -Thalassemia. <i>Blood</i> , 2010, 116, 1009-1009.	1.4	2
125	Tmprss6, An Inhibitor of Hepatic Bmp/Smad Signaling, Is Required for Hepcidin Suppression and Iron Loading In a Mouse Model of $\beta^2$ -Thalassemia. <i>Blood</i> , 2010, 116, 164-164.	1.4	2
126	Ferretting out the dynamics of ferritin expression. <i>Blood</i> , 2001, 98, 503-504.	1.4	1



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127	Forging iron links. Blood, 2003, 101, 2450-2450.	1.4	1
128	Iron Absorption. , 2006, , 1983-1992.		1
129	Of mice and iron: ferroportin disease. Blood, 2007, 109, 4115-4115.	1.4	1
130	An Iron-Clad Role for Proteasomal Degradation. Cell Metabolism, 2011, 14, 281-282.	16.2	1
131	Build it and hope that enough of them will come. Journal of Clinical Investigation, 2009, 119, 2860-2861.	8.2	1
132	Pathophysiologic mechanisms of anemia of chronic disease. Postgraduate Medicine, 2004, 116, 017-022.	2.0	0
133	Inhibited Maturation of Ter119+CD71+ Erythroid Precursors in Mice with Chronic Sterile Abscess.. Blood, 2008, 112, 3844-3844.	1.4	0
134	Tmprss6 Is a Genetic Modifier of the Hfe-Hemochromatosis Phenotype in Mice.. Blood, 2009, 114, 625-625.	1.4	0
135	The Serine Protease Tmprss6 Regulates Hpcidin Expression, but Its Loss Does Not Cause Systemic Iron Deficiency In the Fetal and Neonatal Periods. Blood, 2010, 116, 4258-4258.	1.4	0
136	Genetic Loss of Tmprss6 Increases Effective Erythropoiesis in a Mouse Model of $\beta^2$ -Thalassemia. Blood, 2012, 120, 482-482.	1.4	0
137	Understanding the Transferrin Receptor and Cellular Iron Deficiency Outside the Erythron. Blood, 2017, 130, SCI-42-SCI-42.	1.4	0
138	The Molecular Basis of Iron Metabolism. , 0, , 169-178.		0