Des Raymond Richardson

List of Publications by Year
in descending order

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337 papers	28,282 citations	4641 85 h-index	7136 153 g-index
345 all docs	345 docs citations	345 times ranked	33807 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	The Evolution of Iron Chelators for the Treatment of Iron Overload Disease and Cancer. Pharmacological Reviews, 2005, 57, 547-583.	7.1	641
3	The molecular mechanisms of the metabolism and transport of iron in normal and neoplastic cells. BBA - Biomembranes, 1997, 1331, 1-40.	7.9	609
4	Lipid-Based Drug Delivery Systems in Cancer Therapy: What Is Available and What Is Yet to Come. Pharmacological Reviews, 2016, 68, 701-787.	7.1	537
5	Unraveling the mysteries of serum albuminÃ¢â‚¬â€more than just a serum protein. Frontiers in Physiology, 2014, 5, 299.	1.3	488
6	A class of iron chelators with a wide spectrum of potent antitumor activity that overcomes resistance to chemotherapeutics. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14901-14906.	3.3	452
7	Mitochondrial iron trafficking and the integration of iron metabolism between the mitochondrion and cytosol. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10775-10782.	3.3	413
8	Novel di-2-pyridylâ€“derived iron chelators with marked and selective antitumor activity: in vitro and in vivo assessment. Blood, 2004, 104, 1450-1458.	0.6	353
9	Iron uptake and metabolism in the new millennium. Trends in Cell Biology, 2007, 17, 93-100.	3.6	343
10	Dipyridyl Thiosemicarbazone Chelators with Potent and Selective Antitumor Activity Form Iron Complexes with Redox Activity. Journal of Medicinal Chemistry, 2006, 49, 6510-6521.	2.9	341
11	Thiosemicarbazones from the Old to New: Iron Chelators That Are More Than Just Ribonucleotide Reductase Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 5271-5294.	2.9	338
12	Iron chelators with high antiproliferative activity up-regulate the expression of a growth inhibitory and metastasis suppressor gene: a link between iron metabolism and proliferation. Blood, 2004, 104, 2967-2975.	0.6	277
13	Iron trafficking in the mitochondrion: novel pathways revealed by disease. Blood, 2005, 105, 1867-1874.	0.6	260
14	Antitumor Activity of Metal-Chelating Compound Dp44mT Is Mediated by Formation of a Redox-Active Copper Complex That Accumulates in Lysosomes. Cancer Research, 2011, 71, 5871-5880.	0.4	258
15	The role of iron in cell cycle progression and the proliferation of neoplastic cells. Biochimica Et Biophysica Acta: Reviews on Cancer, 2002, 1603, 31-46.	3.3	236
16	The Iron Chelators Dp44mT and DFO Inhibit TGF-Î²-induced Epithelial-Mesenchymal Transition via Up-Regulation of N-Myc Downstream-regulated Gene 1 (NDRG1). Journal of Biological Chemistry, 2012, 287, 17016-17028.	1.6	213
17	The potential of iron chelators of the pyridoxal isonicotinoyl hydrazone class as effective antiproliferative agents, IV: the mechanisms involved in inhibiting cell-cycle progression. Blood, 2001, 98, 842-850.	0.6	207
18	Tuning Cell Cycle Regulation with an Iron Key. Cell Cycle, 2007, 6, 1982-1994.	1.3	206

#	Article	IF	Citations
19	Design, Synthesis, and Characterization of Novel Iron Chelators:â€‰Structureâ€'Activity Relationships of the 2-Benzoylpyridine Thiosemicarbazone Series and Their 3-Nitrobenzoyl Analogues as Potent Antitumor Agents. Journal of Medicinal Chemistry, 2007, 50, 3716-3729.	2.9	206
20	Novel Thiosemicarbazones of the ApT and DpT Series and Their Copper Complexes: Identification of Pronounced Redox Activity and Characterization of Their Antitumor Activity. Journal of Medicinal Chemistry, 2010, 53, 5759-5769.	2.9	205
21	Elucidation of the mechanism of mitochondrial iron loading in Friedreich's ataxia by analysis of a mouse mutant. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16381-16386.	3.3	197
22	The iron metabolism of neoplastic cells: alterations that facilitate proliferation?. Critical Reviews in Oncology/Hematology, 2002, 42, 65-78.	2.0	189
23	Iron chelators as therapeutic agents for the treatment of cancer. Critical Reviews in Oncology/Hematology, 2002, 42, 267-281.	2.0	189
24	Molecular Pharmacology of the Interaction of Anthracyclines with Iron. Molecular Pharmacology, 2005, 68, 261-271.	1.0	185
25	Molecular Pharmacology of ABCG2 and Its Role in Chemoresistance. Molecular Pharmacology, 2013, 84, 655-669.	1.0	180
26	Novel aroylhydrazone and thiosemicarbazone iron chelators with anti-malarial activity against chloroquine-resistant and -sensitive parasites. International Journal of Biochemistry and Cell Biology, 2004, 36, 401-407.	1.2	179
27	Chelators at the Cancer Coalface: Desferrioxamine to Triapine and Beyond. Clinical Cancer Research, 2006, 12, 6876-6883.	3.2	178
28	2-Acetylpyridine Thiosemicarbazones are Potent Iron Chelators and Antiproliferative Agents: Redox Activity, Iron Complexation and Characterization of their Antitumor Activity. Journal of Medicinal Chemistry, 2009, 52, 1459-1470.	2.9	178
29	The active role of vitamin C in mammalian iron metabolism: Much more than just enhanced iron absorption!. Free Radical Biology and Medicine, 2014, 75, 69-83.	1.3	178
30	The metastasis suppressor, Ndrg-1: a new ally in the fight against cancer. Carcinogenesis, 2006, 27, 2355-2366.	1.3	168
31	Novel Second-Generation Di-2-Pyridylketone Thiosemicarbazones Show Synergism with Standard Chemotherapeutics and Demonstrate Potent Activity against Lung Cancer Xenografts after Oral and Intravenous Administration in Vivo. Journal of Medicinal Chemistry, 2012, 55, 7230-7244.	2.9	165
32	P-glycoprotein Mediates Drug Resistance via a Novel Mechanism Involving Lysosomal Sequestration. Journal of Biological Chemistry, 2013, 288, 31761-31771.	1.6	164
33	Novel Chelators for Cancer Treatment: Where Are We Now?. Antioxidants and Redox Signaling, 2013, 18, 973-1006.	2.5	160
34	Iron Chelators for the Treatment of Cancer. Current Medicinal Chemistry, 2012, 19, 2689-2702.	1.2	158
35	Novel Thiosemicarbazone Iron Chelators Induce Up-Regulation and Phosphorylation of the Metastasis Suppressor N-myc Down-Stream Regulated Gene 1: A New Strategy for the Treatment of Pancreatic Cancer. Molecular Pharmacology, 2011, 80, 598-609.	1.0	154
36	Novel â€œhybridâ€•iron chelators derived from aroylhydrazones and thiosemicarbazones demonstrate selective antiproliferative activity against tumor cells. Blood, 2002, 100, 666-676.	0.6	153

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37	Iron chelators for the treatment of iron overload disease: Relationship between structure, redox activity, and toxicity. American Journal of Hematology, 2003, 73, 200-210.	2.0	153
38	Iron Chelators of the Dipyridylketone Thiosemicarbazone Class: Precomplexation and Transmetalation Effects on Anticancer Activity. Journal of Medicinal Chemistry, 2009, 52, 407-415.	2.9	151
39	The Iron-Regulated Metastasis Suppressor NDRG1 Targets NEDD4L, PTEN, and SMAD4 and Inhibits the PI3K and Ras Signaling Pathways. Antioxidants and Redox Signaling, 2013, 18, 874-887.	2.5	151
40	Zinc(II)â€“Thiosemicarbazone Complexes Are Localized to the Lysosomal Compartment Where They Transmetallate with Copper Ions to Induce Cytotoxicity. Journal of Medicinal Chemistry, 2016, 59, 4965-4984.	2.9	148
41	Roads to melanoma: Key pathways and emerging players in melanoma progression and oncogenic signaling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 770-784.	1.9	148
42	Ferritinophagy and ferroptosis in the management of metabolic diseases. Trends in Endocrinology and Metabolism, 2021, 32, 444-462.	3.1	148
43	The old and new biochemistry of polyamines. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2053-2068.	1.1	145
44	Examination of the antiproliferative activity of iron chelators: multiple cellular targets and the different mechanism of action of triapine compared with desferrioxamine and the potent pyridoxal isonicotinoyl hydrazone analogue 311. Clinical Cancer Research, 2003, 9, 402-14.	3.2	145
45	Thiosemicarbazones: the new wave in cancer treatment. Future Medicinal Chemistry, 2009, 1, 1143-1151.	1.1	141
46	Targeting cancer by binding iron: Dissecting cellular signaling pathways. Oncotarget, 2015, 6, 18748-18779.	0.8	137
47	Structural Variations and Formation Constants of First-Row Transition Metal Complexes of Biologically Active Aroylhydrazones. European Journal of Inorganic Chemistry, 2003, 2003, 1145-1156.	1.0	136
48	Crystal and molecular structure of 2-hydroxy-1-naphthaldehyde isonicotinoyl hydrazone (NIH) and its iron(III) complex: an iron chelator with anti-tumour activity. Journal of Biological Inorganic Chemistry, 1999, 4, 266-273.	1.1	131
49	Iron chelation regulates cyclin D1 expression via the proteasome: a link to iron deficiencyâ€“mediated growth suppression. Blood, 2007, 109, 4045-4054.	0.6	131
50	Growth arrest and DNA damage-45 alpha (GADD45Î±). International Journal of Biochemistry and Cell Biology, 2009, 41, 986-989.	1.2	129
51	The renaissance of polypharmacology in the development of anti-cancer therapeutics: Inhibition of the â€œTriad of Deathâ€•in cancer by Di-2-pyridylketone thiosemicarbazones. Pharmacological Research, 2015, 100, 255-260.	3.1	127
52	Crusade for iron: iron uptake in unicellular eukaryotes and its significance for virulence. Trends in Microbiology, 2008, 16, 261-268.	3.5	126
53	Future of ToxicologyIron Chelators and Differing Modes of Action and Toxicity:â€‰ The Changing Face of Iron Chelation Therapy. Chemical Research in Toxicology, 2007, 20, 715-720.	1.7	125
54	Evaluation of the iron chelation potential of hydrazones of pyridoxal, salicylaldehyde and 2-hydroxy-1-naphthylaldehyde using the hepatocyte in culture. Hepatology, 1992, 15, 492-501.	3.6	122

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55	Iron chelation and regulation of the cell cycle: 2 mechanisms of posttranscriptional regulation of the universal cyclin-dependent kinase inhibitor p21CIP1/WAF1 by iron depletion. Blood, 2007, 110, 752-761.	0.6	121
56	Pyridoxal isonicotinoyl hydrazone and its analogs: Potential orally effective iron-chelating agents for the treatment of iron overload disease. Translational Research, 1998, 131, 306-315.	2.4	120
57	Molecular Mechanisms of Iron Uptake by Cells and the Use of Iron Chelators for the Treatment of Cancer. Current Medicinal Chemistry, 2005, 12, 2711-2729.	1.2	120
58	Nitrogen monoxide (NO)-mediated iron release from cells is linked to NO-induced glutathione efflux via multidrug resistance-associated protein 1. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7670-7675.	3.3	117
59	Metastasis suppressor, NDRG1, mediates its activity through signaling pathways and molecular motors. Carcinogenesis, 2013, 34, 1943-1954.	1.3	117
60	Iron Export through the Transporter Ferroportin 1 Is Modulated by the Iron Chaperone PCBP2. Journal of Biological Chemistry, 2016, 291, 17303-17318.	1.6	115
61	Investigating biological activity spectrum for novel quinoline analogues. Bioorganic and Medicinal Chemistry, 2007, 15, 1280-1288.	1.4	114
62	Potent Antitumor Activity of Novel Iron Chelators Derived from Di-2-Pyridylketone Isonicotinoyl Hydrazone Involves Fenton-Derived Free Radical Generation. Clinical Cancer Research, 2004, 10, 7365-7374.	3.2	113
63	The MCK mouse heart model of Friedreich's ataxia: Alterations in iron-regulated proteins and cardiac hypertrophy are limited by iron chelation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9757-9762.	3.3	113
64	Antioxidants Inhibit Indoleamine 2,3-Dioxygenase in IFN-Î³-Activated Human Macrophages: Posttranslational Regulation by Pyrrolidine Dithiocarbamate. Journal of Immunology, 2001, 166, 6332-6340.	0.4	111
65	Hepcidin, the hormone of iron metabolism, is bound specifically to Î±-2-macroglobulin in blood. Blood, 2009, 113, 6225-6236.	0.6	111
66	Redox cycling metals: Pedaling their roles in metabolism and their use in the development of novel therapeutics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 727-748.	1.9	111
67	S-Nitrosylated S100A8: Novel Anti-Inflammatory Properties. Journal of Immunology, 2008, 181, 5627-5636.	0.4	107
68	The Iron Chelator, Deferasirox, as a Novel Strategy for Cancer Treatment: Oral Activity Against Human Lung Tumor Xenografts and Molecular Mechanism of Action. Molecular Pharmacology, 2013, 83, 179-190.	1.0	106
69	Gene of the month: Interleukin 6 (IL-6). Journal of Clinical Pathology, 2014, 67, 932-937.	1.0	106
70	Iron: A New Target for Pharmacological Intervention in Neurodegenerative Diseases. Seminars in Pediatric Neurology, 2006, 13, 186-197.	1.0	105
71	Copper and conquer: copper complexes of di-2-pyridylketone thiosemicarbazones as novel anti-cancer therapeutics. Metallomics, 2016, 8, 874-886.	1.0	105
72	Novel Chelators for Central Nervous System Disorders That Involve Alterations in the Metabolism of Iron and Other Metal Ions. Annals of the New York Academy of Sciences, 2004, 1012, 326-341.	1.8	103

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73	Duodenal Cytochrome b (DCYTB) in Iron Metabolism: An Update on Function and Regulation. Nutrients, 2015, 7, 2274-2296.	1.7	103
74	Di-2-pyridylketone 4,4-Dimethyl-3-thiosemicarbazone (Dp44mT) Overcomes Multidrug Resistance by a Novel Mechanism Involving the Hijacking of Lysosomal P-Glycoprotein (Pgp). Journal of Biological Chemistry, 2015, 290, 9588-9603.	1.6	103
75	Dp44mT targets the AKT, TGF-Î² and ERK pathways via the metastasis suppressor NDRG1 in normal prostate epithelial cells and prostate cancer cells. British Journal of Cancer, 2013, 108, 409-419.	2.9	100
76	Cellular Iron Depletion Stimulates the JNK and p38 MAPK Signaling Transduction Pathways, Dissociation of ASK1-Thioredoxin, and Activation of ASK1. Journal of Biological Chemistry, 2011, 286, 15413-15427.	1.6	95
77	Identification of the di-pyridyl ketone isonicotinoyl hydrazone (PKIH) analogues as potent iron chelators and anti-tumour agents. British Journal of Pharmacology, 2003, 138, 819-830.	2.7	94
78	The novel thiosemicarbazone, di-2-pyridylketone 4-cyclohexyl-4-methyl-3-thiosemicarbazone (DpC), inhibits neuroblastoma growth in vitro and in vivo via multiple mechanisms. Journal of Hematology and Oncology, 2016, 9, 98.	6.9	94
79	Design, Synthesis, and Characterization of New Iron Chelators with Anti-Proliferative Activity:â€‰Structureâ"Activity Relationships of Novel Thiohydrazone Analogues. Journal of Medicinal Chemistry, 2007, 50, 6212-6225.	2.9	93
80	The metastasis suppressor, NDRG1, modulates Î²-Catenin phosphorylation and nuclear translocation by mechanisms involving FRAT1 and PAK4. Journal of Cell Science, 2014, 127, 3116-30.	1.2	93
81	The Role of the Antioxidant Response in Mitochondrial Dysfunction in Degenerative Diseases: Cross-Talk between Antioxidant Defense, Autophagy, and Apoptosis. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-26.	1.9	92
82	Structureâ€"Activity Relationships of Novel Iron Chelators for the Treatment of Iron Overload Disease: The Methyl Pyrazinylketone Isonicotinoyl Hydrazone Series. Journal of Medicinal Chemistry, 2008, 51, 331-344.	2.9	91
83	Hydrazone chelators for the treatment of iron overload disorders: iron coordination chemistry and biological activity. Dalton Transactions, 2007, , 3232.	1.6	90
84	Bp44mT: an orally active iron chelator of the thiosemicarbazone class with potent antiâ€tumour efficacy. British Journal of Pharmacology, 2012, 165, 148-166.	2.7	90
85	Targeting the Metastasis Suppressor, NDRG1, Using Novel Iron Chelators: Regulation of Stress Fiber-Mediated Tumor Cell Migration via Modulation of the ROCK1/pMLC2 Signaling Pathway. Molecular Pharmacology, 2013, 83, 454-469.	1.0	90
86	Iron Chelators as Anti-Neoplastic Agents: Current Developments and Promise of the PIH Class of Chelators. Current Medicinal Chemistry, 2003, 10, 1035-1049.	1.2	88
87	Molecular functions of the iron-regulated metastasis suppressor, NDRG1, and its potential as a molecular target for cancer therapy. Biochimica Et Biophysica Acta: Reviews on Cancer, 2014, 1845, 1-19.	3.3	88
88	The TGF-Î², PI3K/Akt and PTEN pathways: established and proposed biochemical integration in prostate cancer. Biochemical Journal, 2009, 417, 411-421.	1.7	86
89	Identification of nonferritin mitochondrial iron deposits in a mouse model of Friedreich ataxia. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20590-20595.	3.3	85
90	Two saturable mechanisms of iron uptake from transferrin in human melanoma cells: The effect of transferrin concentration, chelators, and metabolic probes on transferrin and iron uptake. Journal of Cellular Physiology, 1994, 161, 160-168.	2.0	84

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91	Effects of nitrogen monoxide and carbon monoxide on molecular and cellular iron metabolism: mirror-image effector molecules that target iron. Biochemical Journal, 2003, 369, 429-440.	1.7	84
92	Mitochondrial Mayhem: The Mitochondrion as a Modulator of Iron Metabolism and Its Role in Disease. Antioxidants and Redox Signaling, 2011, 15, 3003-3019.	2.5	84
93	The Metastasis Suppressor, N-myc Downstream-regulated Gene 1 (NDRG1), Inhibits Stress-induced Autophagy in Cancer Cells. Journal of Biological Chemistry, 2014, 289, 9692-9709.	1.6	83
94	Development of iron chelators to treat iron overload disease and their use as experimental tools to probe intracellular iron metabolism. , 1998, 58, 299-305.		82
95	Structureâ€“Activity Relationships of Di-2-pyridylketone, 2-Benzoylpyridine, and 2-Acetylpyridine Thiosemicarbazones for Overcoming Pgp-Mediated Drug Resistance. Journal of Medicinal Chemistry, 2016, 59, 8601-8620.	2.9	82
96	Cytotoxic iron chelators: characterization of the structure, solution chemistry and redox activity of ligands and iron complexes of the di-2-pyridyl ketone isonicotinoyl hydrazone (HPKIH) analogues. Journal of Biological Inorganic Chemistry, 2003, 8, 866-880.	1.1	80
97	The effect of intracellular iron concentration and nitrogen monoxide on Nramp2 expression and non-transferrin-bound iron uptake. FEBS Journal, 1999, 263, 41-50.	0.2	79
98	Synthesis, Characterization, and in Vitro Anticancer Activity of Copper and Zinc Bis(Thiosemicarbazone) Complexes. Inorganic Chemistry, 2019, 58, 13709-13723.	1.9	78
99	Non-thermal plasma induces a stress response in mesothelioma cells resulting in increased endocytosis, lysosome biogenesis and autophagy. Free Radical Biology and Medicine, 2017, 108, 904-917.	1.3	77
100	The metastasis suppressor, N-myc downstream regulated gene 1 (NDRG1), upregulates p21 via p53-independent mechanisms. Carcinogenesis, 2011, 32, 732-740.	1.3	76
101	Development of novel aroylhydrazone ligands for iron chelation therapy: 2-Pyridylcarboxaldehyde isonicotinoyl hydrazone analogs. Translational Research, 1999, 134, 510-521.	2.4	75
102	Antitumor activity and mechanism of action of the iron chelator, Dp44mT, against leukemic cells. American Journal of Hematology, 2009, 84, 170-176.	2.0	75
103	Adenosine Monophosphateâ€“Activated Kinase and Its Key Role in Catabolism: Structure, Regulation, Biological Activity, and Pharmacological Activation. Molecular Pharmacology, 2015, 87, 363-377.	1.0	74
104	Anthracyclines Induce Accumulation of Iron in Ferritin in Myocardial and Neoplastic Cells: Inhibition of the Ferritin Iron Mobilization Pathway. Molecular Pharmacology, 2003, 63, 849-861.	1.0	73
105	The role of NDRG1 in the pathology and potential treatment of human cancers. Journal of Clinical Pathology, 2013, 66, 911-917.	1.0	72
106	A mechanism for overcoming P-glycoprotein-mediated drug resistance: novel combination therapy that releases stored doxorubicin from lysosomes via lysosomal permeabilization using Dp44mT or DpC. Cell Death and Disease, 2016, 7, e2510-e2510.	2.7	72
107	Complexes of Cytotoxic Chelators from the Dipyridyl Ketone Isonicotinoyl Hydrazone (HPKIH) Analogues. Inorganic Chemistry, 2006, 45, 752-760.	1.9	71
108	Effect of pyridoxal isonicotinoyl hydrazone and other hydrazones on iron release from macrophages, reticulocytes and hepatocytes. Biochimica Et Biophysica Acta - General Subjects, 1988, 967, 122-129.	1.1	70

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109	Iron chelators of the pyridoxal isonicotinoyl hydrazone class Part I. Ionisation characteristics of the ligands and their relevance to biological properties. Inorganica Chimica Acta, 1990, 170, 165-170.	1.2	70
110	The iron-regulated metastasis suppressor, Ndrg-1: Identification of novel molecular targets. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1981-1992.	1.9	70
111	Erythroid differentiation and protoporphyrin IX down-regulate frataxin expression in Friend cells: characterization of frataxin expression compared to molecules involved in iron metabolism and hemoglobinization. Blood, 2002, 99, 3813-3822.	0.6	69
112	Role of Glutaredoxin1 and Glutathione in Regulating the Activity of the Copper-transporting P-type ATPases, ATP7A and ATP7B. Journal of Biological Chemistry, 2010, 285, 27111-27121.	1.6	69
113	The Medicinal Chemistry of Novel Iron Chelators for the Treatment of Cancer. Current Topics in Medicinal Chemistry, 2011, 11, 483-499.	1.0	69
114	The uptake of inorganic iron complexes by human melanoma cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1093, 20-28.	1.9	68
115	Changes in ferrous iron and glutathione promote ferroptosis and frailty in aging Caenorhabditis elegans. ELife, 2020, 9, .	2.8	68
116	Frataxin: its role in iron metabolism and the pathogenesis of Friedreich's ataxia. International Journal of Biochemistry and Cell Biology, 2001, 33, 1-10.	1.2	67
117	Iron chelators ICL670 and 311 inhibit HIV-1 transcription. Virology, 2007, 367, 324-333.	1.1	67
118	The Metastasis Suppressor, N-MYC Downstream-regulated Gene-1 (NDRG1), Down-regulates the ErbB Family of Receptors to Inhibit Downstream Oncogenic Signaling Pathways. Journal of Biological Chemistry, 2016, 291, 1029-1052.	1.6	65
119	Iron Chelator-Mediated Alterations in Gene Expression: Identification of Novel Iron-Regulated Molecules That Are Molecular Targets of Hypoxia-Inducible Factor-1Î± and p53. Molecular Pharmacology, 2010, 77, 443-458.	1.0	64
120	The proto-oncogene c-Src and its downstream signaling pathways are inhibited by the metastasis suppressor, NDRG1. Oncotarget, 2015, 6, 8851-8874.	0.8	64
121	Identification of differential anti-neoplastic activity of copper bis(thiosemicarbazones) that is mediated by intracellular reactive oxygen species generation and lysosomal membrane permeabilization. Journal of Inorganic Biochemistry, 2015, 152, 20-37.	1.5	64
122	A novel class of thiosemicarbazones show multi-functional activity for the treatment of Alzheimer's disease. European Journal of Medicinal Chemistry, 2017, 139, 612-632.	2.6	64
123	The emerging role of progesterone receptor membrane component 1 (PGRMC1) in cancer biology. Biochimica Et Biophysica Acta: Reviews on Cancer, 2016, 1866, 339-349.	3.3	63
124	Novel diaroylhydrazine ligands as iron chelators: coordination chemistry and biological activity. Journal of Biological Inorganic Chemistry, 2005, 10, 761-777.	1.1	62
125	Identification and Characterization of Thiosemicarbazones with Antifungal and Antitumor Effects: Cellular Iron Chelation Mediating Cytotoxic Activity. Chemical Research in Toxicology, 2008, 21, 1878-1889.	1.7	62
126	Iron Chelators of the Di-2-pyridylketone Thiosemicarbazone and 2-Benzoylpyridine Thiosemicarbazone Series Inhibit HIV-1 Transcription: Identification of Novel Cellular Targetsâ€"Iron, Cyclin-Dependent Kinase (CDK) 2, and CDK9. Molecular Pharmacology, 2011, 79, 185-196.	1.0	62

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127	Molecular and Functional Alterations in a Mouse Cardiac Model of Friedreich Ataxia. American Journal of Pathology, 2013, 183, 745-757.	1.9	62
128	Comparison of Clinically Used and Experimental Iron Chelators for Protection against Oxidative Stress-Induced Cellular Injury. Chemical Research in Toxicology, 2010, 23, 1105-1114.	1.7	61
129	Synthesis and characterization of quinoline-based thiosemicarbazones and correlation of cellular iron-binding efficacy to anti-tumor efficacy. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5527-5531.	1.0	61
130	Exploring the Anti-Cancer Activity of Novel Thiosemicarbazones Generated through the Combination of Retro-Fragments: Dissection of Critical Structure-Activity Relationships. PLoS ONE, 2014, 9, e110291.	1.1	61
131	Nitrogen Monoxide (NO) Storage and Transport by Dinitrosyl-Dithiol-Iron Complexes: Long-lived NO That Is Trafficked by Interacting Proteins. Journal of Biological Chemistry, 2012, 287, 6960-6968.	1.6	60
132	The nitric oxideâ€“iron interplay in mammalian cells: Transport and storage of dinitrosyl iron complexes. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 638-651.	1.1	59
133	The iron complex of Dp44mT is redox-active and induces hydroxyl radical formation: An EPR study. Journal of Inorganic Biochemistry, 2010, 104, 1224-1228.	1.5	59
134	N-myc Downstream Regulated 1 (NDRG1) Is Regulated by Eukaryotic Initiation Factor 3a (eIF3a) during Cellular Stress Caused by Iron Depletion. PLoS ONE, 2013, 8, e57273.	1.1	59
135	The Anticancer Agent Di-2-pyridylketone 4,4-Dimethyl-3-thiosemicarbazone (Dp44mT) Overcomes Prosurvival Autophagy by Two Mechanisms. Journal of Biological Chemistry, 2014, 289, 33568-33589.	1.6	59
136	Interactions of the pyridine-2-carboxaldehyde isonicotinoyl hydrazone class of chelators with iron and DNA: implications for toxicity in the treatment of iron overload disease. Journal of Biological Inorganic Chemistry, 2003, 8, 427-438.	1.1	58
137	24p3 and Its Receptor: Dawn of a New Iron Age?. Cell, 2005, 123, 1175-1177.	13.5	57
138	Tuning the antiproliferative activity of biologically active iron chelators: characterization of the coordination chemistry and biological efficacy of 2-acetylpyridine and 2-benzoylpyridine hydrazone ligands. Journal of Biological Inorganic Chemistry, 2007, 13, 107-119.	1.1	57
139	Gene of the month: BECN1. Journal of Clinical Pathology, 2014, 67, 656-660.	1.0	57
140	CD63 is regulated by iron via the IRE-IRP system and is important for ferritin secretion by extracellular vesicles. Blood, 2021, 138, 1490-1503.	0.6	57
141	Alkyl Substituted 2â€²-Benzoylpyridine Thiosemicarbazone Chelators with Potent and Selective Anti-Neoplastic Activity: Novel Ligands that Limit Methemoglobin Formation. Journal of Medicinal Chemistry, 2013, 56, 357-370.	2.9	56
142	Metals and metastasis: Exploiting the role of metals in cancer metastasis to develop novel anti-metastatic agents. Pharmacological Research, 2017, 115, 275-287.	3.1	56
143	Role of ceruloplasmin and ascorbate in cellular iron release. Translational Research, 1999, 134, 454-465.	2.4	55
144	The ins and outs of mitochondrial iron-loading: the metabolic defect in Friedreichâ€™s ataxia. Journal of Molecular Medicine, 2010, 88, 323-329.	1.7	55

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