Mathew L Coleman

List of Publications by Year
in descending order

38 papers	5,185 citations	218677 26 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	8391 citing authors

#	Article	IF	Citations
1	Membrane blebbing during apoptosis results from caspase-mediated activation of ROCK I. Nature Cell Biology, 2001, 3, 339-345.	10.3	1,099
2	Dynamic regulatory network controlling TH17 cell differentiation. Nature, 2013, 496, 461-468.	27.8	608
3	Tumour hypoxia causes DNA hypermethylation by reducing TET activity. Nature, 2016, 537, 63-68.	27.8	521
4	RAS and RHO GTPases in G1-phase cell-cycle regulation. Nature Reviews Molecular Cell Biology, 2004, 5, 355-366.	37.0	309
5	Posttranslational hydroxylation of ankyrin repeats in IÂB proteins by the hypoxia-inducible factor (HIF) asparaginyl hydroxylase, factor inhibiting HIF (FIH). Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14767-14772.	7.1	258
6	Hypoxia, hypoxia-inducible factors (HIF), HIF hydroxylases and oxygen sensing. Cellular and Molecular Life Sciences, 2009, 66, 3539-3554.	5.4	229
7	Rho GTPase signalling pathways in the morphological changes associated with apoptosis. Cell Death and Differentiation, 2002, 9, 493-504.	11.2	220
8	The hypoxiaâ€inducible transcription factor pathway regulates oxygen sensing in the simplest animal, Trichoplax adhaerens. EMBO Reports, 2011, 12, 63-70.	4.5	210
9	Actin-myosinâ€“based contraction is responsible for apoptotic nuclear disintegration. Journal of Cell Biology, 2005, 168, 245-255.	5.2	189
10	Asparaginyl Hydroxylation of the Notch Ankyrin Repeat Domain by Factor Inhibiting Hypoxia-inducible Factor. Journal of Biological Chemistry, 2007, 282, 24027-24038.	3.4	189
11	PHF8, a gene associated with cleft lip/palate and mental retardation, encodes for an Nîµ-dimethyl lysine demethylase. Human Molecular Genetics, 2010, 19, 217-222.	2.9	153
12	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. Nature Chemical Biology, 2012, 8, 960-962.	8.0	135
13	Ras promotes p21Waf1/Cip1 protein stability via a cyclin D1-imposed block in proteasome-mediated degradation. EMBO Journal, 2003, 22, 2036-2046.	7.8	133
14	SPRY2 Is an Inhibitor of the Ras/Extracellular Signal-Regulated Kinase Pathway in Melanocytes and Melanoma Cells with Wild-Type BRAF but Not with the V599E Mutant. Cancer Research, 2004, 64, 5556-5559.	0.9	107
15	OGFOD1 catalyzes prolyl hydroxylation of RPS23 and is involved in translation control and stress granule formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4031-4036.	7.1	105
16	Optimal Translational Termination Requires C4 Lysyl Hydroxylation of eRF1. Molecular Cell, 2014, 53, 645-654.	9.7	99
17	OH, the Places Youâ€™ll Go! Hydroxylation, Gene Expression, and Cancer. Molecular Cell, 2015, 58, 729-741.	9.7	67
18	Asparagine and Aspartate Hydroxylation of the Cytoskeletal Ankyrin Family Is Catalyzed by Factor-inhibiting Hypoxia-inducible Factor. Journal of Biological Chemistry, 2011, 286, 7648-7660.	3.4	63

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19	Small-Molecule-Based Inhibition of Histone Demethylation in Cells Assessed by Quantitative Mass Spectrometry. Journal of Proteome Research, 2010, 9, 4082-4092.	3.7	56
20	Oxygen sensing and hypoxia-induced responses. Essays in Biochemistry, 2007, 43, 1-16.	4.7	51
21	Asparagine Î²-hydroxylation stabilizes the ankyrin repeat domain fold. Molecular BioSystems, 2009, 5, 52-58.	2.9	49
22	Stability of p21Waf1/Cip1 CDK inhibitor protein is responsive to RhoA-mediated regulation of the actin cytoskeleton. Oncogene, 2006, 25, 2708-2716.	5.9	34
23	Signalling Cross Talk of the HIF System: Involvement of the FIH Protein. Current Pharmaceutical Design, 2009, 15, 3904-3907.	1.9	34
24	Hypoxia drives glucose transporter 3 expression through hypoxia-inducible transcription factor (HIF)â€“mediated induction of the long noncoding RNA NICI. Journal of Biological Chemistry, 2020, 295, 4065-4078.	3.4	34
25	The Jumonji-C oxygenase JMJD7 catalyzes (3S)-lysyl hydroxylation of TRAFAC GTPases. Nature Chemical Biology, 2018, 14, 688-695.	8.0	31
26	Sprouty2 Association with B-Raf Is Regulated by Phosphorylation and Kinase Conformation. Cancer Research, 2009, 69, 6773-6781.	0.9	30
27	Systemic silencing of Phd2 causes reversible immune regulatory dysfunction. Journal of Clinical Investigation, 2019, 129, 3640-3656.	8.2	30
28	MYPT1, the targeting subunit of smooth-muscle myosin phosphatase, is a substrate for the asparaginyl hydroxylase factor inhibiting hypoxia-inducible factor (FIH). Biochemical Journal, 2009, 420, 327-336.	3.7	27
29	A family outing: small GTPases cyclin' through G1. Nature Cell Biology, 2001, 3, E250-E251.	10.3	23
30	Human 2-oxoglutarate-dependent oxygenases: nutrient sensors, stress responders, and disease mediators. Biochemical Society Transactions, 2020, 48, 1843-1858.	3.4	20
31	The emerging roles of ribosomal histidyl hydroxylases in cell biology, physiology and disease. Cellular and Molecular Life Sciences, 2018, 75, 4093-4105.	5.4	19
32	Developmentally regulated GTPases: structure, function and roles in disease. Cellular and Molecular Life Sciences, 2021, 78, 7219-7235.	5.4	11
33	Angiogenesis: escape from hypoxia. Nature Medicine, 2009, 15, 491-493.	30.7	10
34	Modifying the maker: Oxygenases target ribosome biology. Translation, 2015, 3, e1009331.	2.9	9
35	Precisely Tuned Inhibition of HIF Prolyl Hydroxylases Is Key for Cardioprotection After Ischemia. Circulation Research, 2021, 128, 1208-1210.	4.5	7
36	First-in-Class Inhibitors of the Ribosomal Oxygenase MINA53. Journal of Medicinal Chemistry, 2021, 64, 17031-17050.	6.4	7

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37	Myc-induced nuclear antigen constrains a latent intestinal epithelial cell-intrinsic anthelmintic pathway. PLoS ONE, 2019, 14, e0211244.	2.5	5
38	Factor inhibiting HIF can catalyze two asparaginyl hydroxylations in VNVN motifs of ankyrin fold proteins. Journal of Biological Chemistry, 2022, 298, 102020.	3.4	4