

# Sonia Rocha

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

11,416  
citations

76326

40  
h-index

53230

85  
g-index

100  
all docs

100  
docs citations

100  
times ranked

22650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Regulation of hypoxia-inducible factor-1 $\alpha$ by NF- $\kappa$ B. <i>Biochemical Journal</i> , 2008, 412, 477-484.	3.7	594
3	Active Repression of Antiapoptotic Gene Expression by RelA(p65) NF- $\kappa$ B. <i>Molecular Cell</i> , 2004, 13, 853-865.	9.7	371
4	NF- $\kappa$ B controls energy homeostasis and metabolic adaptation by upregulating mitochondrial respiration. <i>Nature Cell Biology</i> , 2011, 13, 1272-1279.	10.3	306
5	Hypoxia induces rapid changes to histone methylation and reprograms chromatin. <i>Science</i> , 2019, 363, 1222-1226.	12.6	266
6	<sc>NF</sc> $\kappa$ B and <sc>HIF</sc> crosstalk in immune responses. <i>FEBS Journal</i> , 2016, 283, 413-424.	4.7	255
7	Ceramide Induces Cytochrome c Release from Isolated Mitochondria. <i>Journal of Biological Chemistry</i> , 1999, 274, 6080-6084.	3.4	240
8	Regulation of gene expression by hypoxia. <i>Biochemical Journal</i> , 2008, 414, 19-29.	3.7	234
9	p53 Represses Cyclin D1 Transcription through Down Regulation of Bcl-3 and Inducing Increased Association of the p52 NF- $\kappa$ B Subunit with Histone Deacetylase 1. <i>Molecular and Cellular Biology</i> , 2003, 23, 4713-4727.	2.3	220
10	Mechanism of Hypoxia-Induced NF- $\kappa$ B. <i>Molecular and Cellular Biology</i> , 2010, 30, 4901-4921.	2.3	195
11	p53- and Mdm2-Independent Repression of NF- $\kappa$ B Transactivation by the ARF Tumor Suppressor. <i>Molecular Cell</i> , 2003, 12, 15-25.	9.7	194
12	Gene regulation under low oxygen: holding your breath for transcription. <i>Trends in Biochemical Sciences</i> , 2007, 32, 389-397.	7.5	188
13	Homo-PROTACs: bivalent small-molecule dimerizers of the VHL E3 ubiquitin ligase to induce self-degradation. <i>Nature Communications</i> , 2017, 8, 830.	12.8	184
14	Potent and selective chemical probe of hypoxic signalling downstream of HIF-1 $\alpha$ hydroxylation via VHL inhibition. <i>Nature Communications</i> , 2016, 7, 13312.	12.8	167
15	Regulation of NF- $\kappa$ B and p53 through activation of ATR and Chk1 by the ARF tumour suppressor. <i>EMBO Journal</i> , 2005, 24, 1157-1169.	7.8	151
16	The role of hypoxia in inflammatory disease (Review). <i>International Journal of Molecular Medicine</i> , 2015, 35, 859-869.	4.0	145
17	Ionizing radiation modulates human macrophages towards a pro-inflammatory phenotype preserving their pro-invasive and pro-angiogenic capacities. <i>Scientific Reports</i> , 2016, 6, 18765.	3.3	139
18	Hypoxia and Inflammation in Cancer, Focus on HIF and NF- $\kappa$ B. <i>Biomedicines</i> , 2017, 5, 21.	3.2	133

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19	Evolutionary Conserved Regulation of HIF-1 $\beta$ by NF- $\kappa$ B. <i>PLoS Genetics</i> , 2011, 7, e1001285.	3.5	122
20	Regulation of p53 tumour suppressor target gene expression by the p52 NF- $\kappa$ B subunit. <i>EMBO Journal</i> , 2006, 25, 4820-4832.	7.8	121
21	Hypoxia Induced NF- $\kappa$ B. <i>Cells</i> , 2016, 5, 10.	4.1	115
22	Chromatin as an oxygen sensor and active player in the hypoxia response. <i>Cellular Signalling</i> , 2012, 24, 35-43.	3.6	109
23	HIF-independent role of prolyl hydroxylases in the cellular response to amino acids. <i>Oncogene</i> , 2013, 32, 4549-4556.	5.9	106
24	Group-Based Optimization of Potent and Cell-Active Inhibitors of the von Hippel-Lindau (VHL) E3 Ubiquitin Ligase: Structure-Activity Relationships Leading to the Chemical Probe (2 <i>S</i> ,4 <i>R</i> )-1-(( <i>S</i> )-2-(1-Cyanocyclopropanecarboxamido)-3,3-dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)phenyl)acetamide (VH298). <i>Journal of Medicinal Chemistry</i> , 2018, 61, 599-618.	6.4	106
25	SWI/SNF Regulates the Cellular Response to Hypoxia. <i>Journal of Biological Chemistry</i> , 2009, 284, 4123-4131.	3.4	99
26	The Chromatin Remodelling Enzymes SNF2H and SNF2L Position Nucleosomes adjacent to CTCF and Other Transcription Factors. <i>PLoS Genetics</i> , 2016, 12, e1005940.	3.5	96
27	Cell cycle progression in response to oxygen levels. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 3569-3582.	5.4	91
28	Chromatin and oxygen sensing in the context of JmjC histone demethylases. <i>Biochemical Journal</i> , 2014, 462, 385-395.	3.7	85
29	Proteomic screen reveals Fbw7 as a modulator of the NF- $\kappa$ B pathway. <i>Nature Communications</i> , 2012, 3, 976.	12.8	82
30	HIF-1 $\beta$ restricts NF- $\kappa$ B dependent gene expression to control innate immunity signals. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 169-81.	2.4	82
31	Cisplatin Mimics ARF Tumor Suppressor Regulation of RelA (p65) Nuclear Factor- $\kappa$ B Transactivation. <i>Cancer Research</i> , 2006, 66, 929-935.	0.9	80
32	Cezanne (OTUD7B) regulates HIF-1 $\beta$ homeostasis in a proteasome-independent manner. <i>EMBO Reports</i> , 2014, 15, 1268-1277.	4.5	78
33	PHD1 Links Cell-Cycle Progression to Oxygen Sensing through Hydroxylation of the Centrosomal Protein Cep192. <i>Developmental Cell</i> , 2013, 26, 381-392.	7.0	74
34	SNIP1 Is a Candidate Modifier of the Transcriptional Activity of c-Myc on E Box-Dependent Target Genes. <i>Molecular Cell</i> , 2006, 24, 771-783.	9.7	60
35	Cezanne regulates E2F1-dependent HIF2 $\beta$ expression. <i>Journal of Cell Science</i> , 2015, 128, 3082-93.	2.0	54
36	Recombinant mistletoe lectin induces p53-independent apoptosis in tumour cells and cooperates with ionising radiation. <i>British Journal of Cancer</i> , 2003, 88, 1785-1792.	6.4	53

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37	The p53-inhibitor pifithrin-alpha inhibits firefly luciferase activity in vivo and in vitro. BMC Molecular Biology, 2003, 4, 9.	3.0	51
38	The P-body component USP52/PAN2 is a novel regulator of <i>HIF1A</i> mRNA stability. Biochemical Journal, 2013, 451, 185-194.	3.7	51
39	Oxygen sensing mechanisms in cells. FEBS Journal, 2020, 287, 3888-3906.	4.7	50
40	Adenomatous Polyposis Coli and Hypoxia-inducible Factor-1 $\beta$ Have an Antagonistic Connection. Molecular Biology of the Cell, 2010, 21, 3630-3638.	2.1	47
41	Family with Sequence Similarity 60A (FAM60A) Protein Is a Cell Cycle-fluctuating Regulator of the SIN3-HDAC1 Histone Deacetylase Complex. Journal of Biological Chemistry, 2012, 287, 32346-32353.	3.4	45
42	Key targets for the execution of radiation-induced tumor cell apoptosis: the role of p53 and caspases. International Journal of Radiation Oncology Biology Physics, 2001, 49, 561-567.	0.8	40
43	TfR1 interacts with the IKK complex and is involved in IKK $\alpha$ -NF- $\kappa$ B signalling. Biochemical Journal, 2013, 449, 275-284.	3.7	39
44	Identification and Functional Characterization of FMN2, a Regulator of the Cyclin-Dependent Kinase Inhibitor p21. Molecular Cell, 2013, 49, 922-933.	9.7	39
45	The role of RelA (p65) threonine 505 phosphorylation in the regulation of cell growth, survival, and migration. Molecular Biology of the Cell, 2011, 22, 3032-3040.	2.1	38
46	Mechanism of hypoxia-induced NF- $\kappa$ B. Cell Cycle, 2011, 10, 879-882.	2.6	37
47	Hypoxia and Chromatin: A Focus on Transcriptional Repression Mechanisms. Biomedicines, 2018, 6, 47.	3.2	35
48	HIF-1 $\beta$ depletion results in SP1-mediated cell cycle disruption and alters the cellular response to chemotherapeutic drugs. Cell Cycle, 2011, 10, 1249-1260.	2.6	34
49	KDM2 Family Members are Regulated by HIF-1 in Hypoxia. Cells, 2017, 6, 8.	4.1	34
50	Differential p53-dependent mechanism of radiosensitization in vitro and in vivo by the protein kinase C-specific inhibitor PKC412. Cancer Research, 2001, 61, 732-8.	0.9	34
51	The chromatin remodeler ISWI regulates the cellular response to hypoxia: role of FIH. Molecular Biology of the Cell, 2011, 22, 4171-4181.	2.1	33
52	ARF the Integrator: Linking NF- $\kappa$ B, p53 and Checkpoint Kinases. Cell Cycle, 2005, 4, 756-759.	2.6	31
53	IKK and NF- $\kappa$ B-mediated regulation of Caspin impacts on ATR checkpoint function. EMBO Journal, 2010, 29, 2966-2978.	7.8	31
54	Hypoxia activates IKK $\alpha$ -NF- $\kappa$ B and the immune response in <i>Drosophila melanogaster</i> . Bioscience Reports, 2014, 34, .	2.4	31

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55	Ndc80 complex: New evidence for the existence of spindle assembly checkpoint in mammalian oocyte meiosis. <i>Cell Cycle</i> , 2011, 10, 879-878.	2.6	30
56	Role of Hypoxia in the Control of the Cell Cycle. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4874.	4.1	26
57	Oxygen-dependent changes in binding partners and post-translational modifications regulate the abundance and activity of HIF-1 $\alpha$ /2 $\alpha$ . <i>Science Signaling</i> , 2021, 14, .	3.6	26
58	Roles of HIF and 2-Oxoglutarate-Dependent Dioxygenases in Controlling Gene Expression in Hypoxia. <i>Cancers</i> , 2021, 13, 350.	3.7	22
59	Gene transcription and chromatin regulation in hypoxia. <i>Biochemical Society Transactions</i> , 2020, 48, 1121-1128.	3.4	22
60	Grow $\alpha$ ,: the HIF system, energy homeostasis and the cell cycle. <i>Histology and Histopathology</i> , 2014, 29, 589-600.	0.7	22
61	Regulation of chromatin accessibility by hypoxia and HIF. <i>Biochemical Journal</i> , 2022, 479, 767-786.	3.7	19
62	Regulation of ATR-dependent pathways by the FHA domain containing protein SNIP1. <i>Oncogene</i> , 2007, 26, 4523-4530.	5.9	18
63	Intricate Macrophage-Colorectal Cancer Cell Communication in Response to Radiation. <i>PLoS ONE</i> , 2016, 11, e0160891.	2.5	18
64	A tale of two transcription factors: NF- $\kappa$ B and HIF crosstalk. <i>OA Molecular and Cell Biology</i> , 2013, 1, .	0.1	18
65	PITX1, a specificity determinant in the HIF-1 $\alpha$ -mediated transcriptional response to hypoxia. <i>Cell Cycle</i> , 2014, 13, 3878-3891.	2.6	17
66	Antagonistic crosstalk between APC and HIF-1 $\alpha$ . <i>Cell Cycle</i> , 2011, 10, 1545-1547.	2.6	16
67	CDK dependent phosphorylation of PHD1 on Serine 130 determines specificity in substrate targeting in cells. <i>Journal of Cell Science</i> , 2016, 129, 191-205.	2.0	15
68	TNFSF14/LIGHT, a Non-Canonical NF- $\kappa$ B Stimulus, Induces the HIF Pathway. <i>Cells</i> , 2018, 7, 102.	4.1	14
69	JmjC histone demethylases act as chromatin oxygen sensors. <i>Molecular and Cellular Oncology</i> , 2019, 6, 1608501.	0.7	14
70	RNA-seq analysis of PHD and VHL inhibitors reveals differences and similarities to the hypoxia response.. <i>Wellcome Open Research</i> , 2019, 4, 17.	1.8	14
71	PBRM1 Cooperates with YTHDF2 to Control HIF-1 $\alpha$ Protein Translation. <i>Cells</i> , 2021, 10, 1425.	4.1	13
72	Von Hippel-Lindau (VHL) small-molecule inhibitor binding increases stability and intracellular levels of VHL protein. <i>Journal of Biological Chemistry</i> , 2021, 297, 100910.	3.4	13

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73	HIF-1 $\hat{2}$ Positively Regulates NF- $\hat{p}$ B Activity via Direct Control of TRAF6. International Journal of Molecular Sciences, 2020, 21, 3000.	4.1	12
74	FMN2 is a novel regulator of the cyclin-dependent kinase inhibitor p21. Cell Cycle, 2013, 12, 2348-2354.	2.6	11
75	SINHCAF/FAM60A and SIN3A specifically repress HIF-2 $\hat{1}$ expression. Biochemical Journal, 2018, 475, 2073-2090.	3.7	11
76	Dose-Dependent Effects of Allopurinol on Human Foreskin Fibroblast Cells and Human Umbilical Vein Endothelial Cells under Hypoxia. PLoS ONE, 2015, 10, e0123649.	2.5	7
77	Overexpression of Bcl-2 enhances sensitivity of L929 cells to a lipophilic cationic photosensitiser. Cell Death and Differentiation, 2001, 8, 204-206.	11.2	6
78	Protein kinase C inhibitor and irradiation-induced apoptosis: relevance of the cytochrome c-mediated caspase-9 death pathway. Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research, 2000, 11, 491-9.	0.8	5
79	Systems approaches to understand oxygen sensing: how multi-omics has driven advances in understanding oxygen-based signalling. Biochemical Journal, 2022, 479, 245-257.	3.7	5
80	siRNA Screening to Identify Ubiquitin and Ubiquitin-like System Regulators of Biological Pathways in Cultured Mammalian Cells. Journal of Visualized Experiments, 2014, , .	0.3	2
81	Analysis of Global RNA Synthesis at the Single Cell Level following Hypoxia. Journal of Visualized Experiments, 2014, , .	0.3	2
82	Enhanced snoMEN Vectors Facilitate Establishment of GFP $\hat{c}$ “HIF-1 $\hat{1}$ Protein Replacement Human Cell Lines. PLoS ONE, 2016, 11, e0154759.	2.5	2
83	NF- $\hat{p}$ B Function in Inflammation, Cellular Stress and Disease. Cell and Molecular Response To Stress, 2002, 3, 61-73.	0.4	1
84	Transcription   Regulation of Gene Transcription by Hypoxia-Inducible Factor 1 $\hat{1}$ . , 2021, , 480-489.		1
85	Use of to Study the Crosstalk Between HIF and NF- $\hat{p}$ B Signaling in and. Methods in Molecular Biology, 2021, 2366, 255-265.	0.9	1
86	IKK and NF- $\hat{p}$ B-mediated regulation of Caspin impacts on ATR checkpoint function. EMBO Journal, 2012, 31, 2660-2661.	7.8	0
87	Abstract IA-017: Chromatin and gene transcription in hypoxia. , 2021, , .		0