Kyle J Roux

List of Publications by Year
in descending order

48 papers	8,039 citations	186265 28 h-index	214800 47 g-index
53 all docs	53 docs citations	53 times ranked	8783 citing authors

#	Article	IF	Citations
1	A BioID-Derived Proximity Interactome for SARS-CoV-2 Proteins. Viruses, 2022, 14, 611.	3.3	25
2	Mechanisms of A-Type Lamin Targeting to Nuclear Ruptures Are Disrupted in LMNA- and BANF1-Associated Progerias. Cells, 2022, 11, 865.	4.1	10
3	The Nucleus Bypasses Obstacles by Deforming Like a Drop with Surface Tension Mediated by Lamin A/C. Advanced Science, 2022, 9, .	11.2	8
4	Barrier-to-autointegration factor: a first responder for repair of nuclear ruptures. Cell Cycle, 2021, 20, 647-660.	2.6	9
5	Diverse cellular functions of barrier-to-autointegration factor and its roles in disease. Journal of Cell Science, 2020, 133, .	2.0	30
6	Comparative Application of BioID and TurboID for Protein-Proximity Biotinylation. Cells, 2020, 9, 1070.	4.1	102
7	Mechanical Stabilization of the Glandular Acinus by Linker of Nucleoskeleton and Cytoskeleton Complex. Current Biology, 2019, 29, 2826-2839.e4.	3.9	23
8	BioID: A Method to Generate a History of Protein Associations. Methods in Molecular Biology, 2019, 2008, 83-95.	0.9	14
9	BioID as a Tool for Protein-Proximity Labeling in Living Cells. Methods in Molecular Biology, 2019, 2012, 299-313.	0.9	72
10	Repair of nuclear ruptures requires barrier-to-autointegration factor. Journal of Cell Biology, 2019, 218, 2136-2149.	5.2	121
11	A cysteine near the C-terminus of UCH-L1 is dispensable for catalytic activity but is required to promote AKT phosphorylation, eIF4F assembly, and malignant B-cell survival. Cell Death Discovery, 2019, 5, 152.	4.7	10
12	BioID: A Screen for Proteinâ€Protein Interactions. Current Protocols in Protein Science, 2018, 91, 19.23.1-19.23.15.	2.8	200
13	Characterization of a recurrent missense mutation in the forkhead DNA-binding domain of FOXP1. Scientific Reports, 2018, 8, 16161.	3.3	6
14	UCH-L1 bypasses mTOR to promote protein biosynthesis and is required for MYC-driven lymphomagenesis in mice. Blood, 2018, 132, 2564-2574.	1.4	28
15	Nonsense pathogenic variants in exon 1 of <i>PHOX2B</i> lead to translational reinitiation in congenital central hypoventilation syndrome. American Journal of Medical Genetics, Part A, 2017, 173, 1200-1207.	1.2	24
16	VRK2A is an A-type laminâ€"dependent nuclear envelope kinase that phosphorylates BAF. Molecular Biology of the Cell, 2017, 28, 2241-2250.	2.1	51
17	Identification of Redox and Glucose-Dependent Txnip Protein Interactions. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-10.	4.0	11
18	The mammalian LINC complex regulates genome transcriptional responses to substrate rigidity. Scientific Reports, 2016, 6, 38063.	3.3	121

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19	BioID Identification of Lamin-Associated Proteins. Methods in Enzymology, 2016, 569, 3-22.	1.0	30
20	Identifying Protein-Protein Associations at the Nuclear Envelope with BioID. Methods in Molecular Biology, 2016, 1411, 133-146.	0.9	19
21	Filling the Void: Proximity-Based Labeling of Proteins in Living Cells. Trends in Cell Biology, 2016, 26, 804-817.	7.9	224
22	An improved smaller biotin ligase for BioID proximity labeling. Molecular Biology of the Cell, 2016, 27, 1188-1196.	2.1	602
23	Direct force probe reveals the mechanics of nuclear homeostasis in the mammalian cell. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5720-5725.	7.1	119
24	Making the LINC: SUN and KASH protein interactions. Biological Chemistry, 2015, 396, 295-310.	2.5	82
25	The nucleus is an intracellular propagator of tensile forces in NIH 3T3 fibroblasts. Journal of Cell Science, 2015, 128, 1901-1911.	2.0	69
26	Nuclear Forces and Cell Mechanosensing. Progress in Molecular Biology and Translational Science, 2014, 126, 205-215.	1.7	55
27	Probing nuclear pore complex architecture with proximity-dependent biotinylation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2453-61.	7.1	422
28	Modulation of Nuclear Shape by Substrate Rigidity. Cellular and Molecular Bioengineering, 2013, 6, 230-238.	2.1	125
29	Identification of Txnip Interacting Proteins using BioID. Free Radical Biology and Medicine, 2013, 65, S153.	2.9	0
30	A mammalian KASH domain protein coupling meiotic chromosomes to the cytoskeleton. Journal of Cell Biology, 2013, 202, 1023-1039.	5.2	193
31	BioID: A Screen for Proteinâ€Protein Interactions. Current Protocols in Protein Science, 2013, 74, 19.23.1-19.23.14.	2.8	332
32	Marked by association: techniques for proximity-dependent labeling of proteins in eukaryotic cells. Cellular and Molecular Life Sciences, 2013, 70, 3657-3664.	5.4	38
33	Novel Bilobe Components in Trypanosoma brucei Identified Using Proximity-Dependent Biotinylation. Eukaryotic Cell, 2013, 12, 356-367.	3.4	120
34	The LINC complex is essential for hearing. Journal of Clinical Investigation, 2013, 123, 740-50.	8.2	130
35	A promiscuous biotin ligase fusion protein identifies proximal and interacting proteins in mammalian cells. Journal of Cell Biology, 2012, 196, 801-810.	5.2	1,834
36	The Interaction between Nesprins and Sun Proteins at the Nuclear Envelope Is Critical for Force Transmission between the Nucleus and Cytoskeleton. Journal of Biological Chemistry, 2011, 286, 26743-26753.	3.4	433

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37	Functional Coupling between the Extracellular Matrix and Nuclear Lamina by Wnt Signaling in Progeria. Developmental Cell, 2010, 19, 413-425.	7.0	162
38	Dynamics of Lamin-A Processing Following Precursor Accumulation. PLoS ONE, 2010, 5, e10874.	2.5	24
39	Nesprin 4 is an outer nuclear membrane protein that can induce kinesin-mediated cell polarization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2194-2199.	7.1	313
40	Nuclei Take a Position: Managing Nuclear Location. Developmental Cell, 2009, 17, 587-597.	7.0	140
41	Functional association of Sun1 with nuclear pore complexes. Journal of Cell Biology, 2007, 178, 785-798.	5.2	202
42	Nuclear envelope defects in muscular dystrophy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 118-127.	3.8	27
43	Blurring the Boundary: The Nuclear Envelope Extends Its Reach. Science, 2007, 318, 1408-1412.	12.6	239
44	Coupling of the nucleus and cytoplasm: Role of the LINC complex. Journal of Cell Biology, 2006, 172, 41-53.	5.2	1,153
45	From Pore to Kinetochore and Back: Regulating Envelope Assembly. Developmental Cell, 2006, 11, 276-278.	7.0	7
46	Modulation of Epithelial Morphology, Monolayer Permeability, and Cell Migration by Growth Arrest Specific 3/Peripheral Myelin Protein 22. Molecular Biology of the Cell, 2005, 16, 1142-1151.	2.1	38
47	The temporospatial expression of peripheral myelin protein 22 at the developing blood-nerve and blood-brain barriers. Journal of Comparative Neurology, 2004, 474, 578-588.	1.6	25
48	Elastin Region Deletions in Williams Syndrome. Genetic Testing and Molecular Biomarkers, 1999, 3, 357-359.	1.7	5