Martin W Hetzer

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Beyond Static Pipes: Mechanisms and In Vitro Models of Vascular Aging. Cold Spring Harbor Perspectives in Medicine, 2022, , a041180.	2.9	0
2	TOWARD HIGH RESOLUTION INTRACELLULAR MAPS IN SPACE AND TIME. , 2021, , .		0
3	The San Diego Nathan Shock Center: tackling the heterogeneity of aging. GeroScience, 2021, 43, 2139-2148.	2.1	2
4	Identification of long-lived proteins in the mitochondria reveals increased stability of the electron transport chain. Developmental Cell, 2021, 56, 2952-2965.e9.	3.1	27
5	Nuclear pore complex maintenance and implications for age-related diseases. Trends in Cell Biology, 2021, , .	3.6	10
6	Nuclear Periphery Takes Center Stage: The Role of Nuclear Pore Complexes in Cell Identity and Aging. Neuron, 2020, 106, 899-911.	3.8	29
7	Dynamic regulation of histone modifications and long-range chromosomal interactions during postmitotic transcriptional reactivation. Genes and Development, 2020, 34, 913-930.	2.7	63
8	Transcriptional and Functional Changes of the Human Microvasculature during Physiological Aging and Alzheimer Disease. Advanced Biology, 2020, 4, e2000044.	3.0	11
9	Nup93 regulates breast tumor growth by modulating cell proliferation and actin cytoskeleton remodeling. Life Science Alliance, 2020, 3, e201900623.	1.3	35
10	Direct reprogramming of human smooth muscle and vascular endothelial cells reveals defects associated with aging and Hutchinson-Gilford progeria syndrome. ELife, 2020, 9, .	2.8	21
11	Age Mosaicism across Multiple Scales in Adult Tissues. Cell Metabolism, 2019, 30, 343-351.e3.	7.2	96
12	Coaching from the sidelines: the nuclear periphery in genome regulation. Nature Reviews Genetics, 2019, 20, 39-50.	7.7	147
13	Visualization of long-lived proteins reveals age mosaicism within nuclei of postmitotic cells. Journal of Cell Biology, 2019, 218, 433-444.	2.3	72
14	Selective clearance of the inner nuclear membrane protein emerin by vesicular transport during ER stress. ELife, 2019, 8, .	2.8	32
15	Predicting age from the transcriptome of human dermal fibroblasts. Genome Biology, 2018, 19, 221.	3.8	143
16	Tpr regulates the total number of nuclear pore complexes per cell nucleus. Genes and Development, 2018, 32, 1321-1331.	2.7	36
17	Nup153 Interacts with Sox2 to Enable Bimodal Gene Regulation and Maintenance of Neural Progenitor Cells. Cell Stem Cell, 2017, 21, 618-634.e7.	5.2	97
18	Nucleolar expansion and elevated protein translation in premature aging. Nature Communications, 2017, 8, 328.	5.8	190

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19	Nup98 recruits the Wdr82â€"Set1A/COMPASS complex to promoters to regulate H3K4 trimethylation in hematopoietic progenitor cells. Genes and Development, 2017, 31, 2222-2234.	2.7	68
20	p120-catenin prevents multinucleation through control of MKLP1-dependent RhoA activity during cytokinesis. Nature Communications, 2016, 7, 13874.	5.8	17
21	Evolution of a transcriptional regulator from a transmembrane nucleoporin. Genes and Development, 2016, 30, 1155-1171.	2.7	34
22	Nuclear envelope rupture is induced by actin-based nucleus confinement. Journal of Cell Biology, 2016, 215, 27-36.	2.3	207
23	Nucleoporin-mediated regulation of cell identity genes. Genes and Development, 2016, 30, 2253-2258.	2.7	138
24	Nuclear pore proteins and the control of genome functions. Genes and Development, 2015, 29, 337-349.	2.7	170
25	Linking Micronuclei to Chromosome Fragmentation. Cell, 2015, 161, 1502-1504.	13.5	39
26	The nucleoporin Nup153 regulates embryonic stem cell pluripotency through gene silencing. Genes and Development, 2015, 29, 1224-1238.	2.7	139
27	Chromothripsis. Current Biology, 2015, 25, R397-R399.	1.8	17
28	The nucleoporin gp210/Nup210 controls muscle differentiation by regulating nuclear envelope/ER homeostasis. Journal of Cell Biology, 2015, 208, 671-681.	2.3	62
29	Integrated Transcriptome and Proteome Analyses Reveal Organ-Specific Proteome Deterioration in Old Rats. Cell Systems, 2015, 1, 224-237.	2.9	176
30	Directly Reprogrammed Human Neurons Retain Aging-Associated Transcriptomic Signatures and Reveal Age-Related Nucleocytoplasmic Defects. Cell Stem Cell, 2015, 17, 705-718.	5.2	545
31	Nuclear Pores Set the Speed Limit for Mitosis. Cell, 2014, 156, 868-869.	13.5	5
32	Nup50 is required for cell differentiation and exhibits transcription-dependent dynamics. Molecular Biology of the Cell, 2014, 25, 2472-2484.	0.9	61
33	Breaching the nuclear envelope in development and disease. Journal of Cell Biology, 2014, 205, 133-141.	2.3	112
34	Catastrophic Nuclear Envelope Collapse in Cancer Cell Micronuclei. Cell, 2013, 154, 47-60.	13.5	573
35	Identification of Long-Lived Proteins Reveals Exceptional Stability of Essential Cellular Structures. Cell, 2013, 154, 971-982.	13.5	469
36	The role of Nup98 in transcription regulation in healthy and diseased cells. Trends in Cell Biology, 2013, 23, 112-117.	3.6	45

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37	Protein homeostasis: live long, won't prosper. Nature Reviews Molecular Cell Biology, 2013, 14, 55-61.	16.1	223
38	Dynamic Association of NUP98 with the Human Genome. PLoS Genetics, 2013, 9, e1003308.	1.5	148
39	Transient nuclear envelope rupturing during interphase in human cancer cells. Nucleus, 2012, 3, 88-100.	0.6	233
40	Outfits for different occasions: tissue-specific roles of Nuclear Envelope proteins. Current Opinion in Cell Biology, 2012, 24, 775-783.	2.6	40
41	A Change in Nuclear Pore Complex Composition Regulates Cell Differentiation. Developmental Cell, 2012, 22, 446-458.	3.1	214
42	Extremely Long-Lived Nuclear Pore Proteins in the Rat Brain. Science, 2012, 335, 942-942.	6.0	267
43	Functional interactions between nucleoporins and chromatin. Current Opinion in Cell Biology, 2011, 23, 65-70.	2.6	57
44	POM121 and Sun1 play a role in early steps of interphase NPC assembly. Journal of Cell Biology, 2011, 194, 27-37.	2.3	125
45	Nuclear pore biogenesis into an intact nuclear envelope. Chromosoma, 2010, 119, 469-477.	1.0	83
46	The Nuclear Envelope. Cold Spring Harbor Perspectives in Biology, 2010, 2, a000539-a000539.	2.3	265
47	Chromatin-Bound Nuclear Pore Components Regulate Gene Expression in Higher Eukaryotes. Cell, 2010, 140, 372-383.	13.5	399
48	Cell Cycle-Dependent Differences in Nuclear Pore Complex Assembly in Metazoa. Cell, 2010, 141, 1030-1041.	13.5	234
49	The role of the nuclear pore complex in aging of post-mitotic cells. Aging, 2010, 2, 74-75.	1.4	24
50	ER membraneâ€"bending proteins are necessary for de novo nuclear pore formation. Journal of Cell Biology, 2009, 184, 659-675.	2.3	137
51	Recruitment of functionally distinct membrane proteins to chromatin mediates nuclear envelope formation in vivo. Journal of Cell Biology, 2009, 186, 183-191.	2.3	99
52	The role of nuclear pores in gene regulation, development and disease. EMBO Reports, 2009, 10, 697-705.	2.0	118
53	Border Control at the Nucleus: Biogenesis and Organization of the Nuclear Membrane and Pore Complexes. Developmental Cell, 2009, 17, 606-616.	3.1	124
54	Age-Dependent Deterioration of Nuclear Pore Complexes Causes a Loss of Nuclear Integrity in Postmitotic Cells. Cell, 2009, 136, 284-295.	13.5	484

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55	The life cycle of the metazoan nuclear envelope. Current Opinion in Cell Biology, 2008, 20, 386-392.	2.6	41
56	Reorganization of the nuclear envelope during open mitosis. Current Opinion in Cell Biology, 2008, 20, 669-677.	2.6	108
57	Structure, dynamics and function of nuclear pore complexes. Trends in Cell Biology, 2008, 18, 456-466.	3.6	330
58	Reshaping of the endoplasmic reticulum limits the rate for nuclear envelope formation. Journal of Cell Biology, 2008, 182, 911-924.	2.3	188
59	Shaping the endoplasmic reticulum into the nuclear envelope. Journal of Cell Science, 2008, 121, 137-142.	1.2	57
60	Single Bead Affinity Detection (SINBAD) for the Analysis of Protein-Protein Interactions. PLoS ONE, 2008, 3, e2061.	1.1	10
61	Nuclear envelope formation by chromatin-mediated reorganization of the endoplasmic reticulum. Nature Cell Biology, 2007, 9, 1160-1166.	4.6	186
62	MELâ€28/ELYS is required for the recruitment of nucleoporins to chromatin and postmitotic nuclear pore complex assembly. EMBO Reports, 2007, 8, 165-172.	2.0	229
63	In Vitro Techniques. , 2006, , 201-378.		2
64	Nuclear Pores Form de Novo from Both Sides of the Nuclear Envelope. Science, 2006, 312, 440-443.	6.0	202
65	PUSHING THE ENVELOPE: Structure, Function, and Dynamics of the Nuclear Periphery. Annual Review of Cell and Developmental Biology, 2005, 21, 347-380.	4.0	275
66	RanGTP mediates nuclear pore complex assembly. Nature, 2003, 424, 689-694.	13.7	219
67	The Conserved Nup107-160 Complex Is Critical for Nuclear Pore Complex Assembly. Cell, 2003, 113, 195-206.	13.5	371
68	Ran Binds to Chromatin by Two Distinct Mechanisms. Current Biology, 2002, 12, 1151-1156.	1.8	58
69	The Ran GTPase as a marker of chromosome position in spindle formation and nuclear envelope assembly. Nature Cell Biology, 2002, 4, E177-E184.	4.6	198
70	Distinct AAA-ATPase p97 complexes function in discrete steps of nuclear assembly. Nature Cell Biology, 2001, 3, 1086-1091.	4.6	297
71	GTP Hydrolysis by Ran Is Required for Nuclear Envelope Assembly. Molecular Cell, 2000, 5, 1013-1024.	4.5	250