

# Thoru Pederson

## List of Publications by Citations

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122  
papers

5,445  
citations

40  
h-index

72  
g-index

206  
ext. papers

6,117  
ext. citations

6  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
122	Proteins associated with heterogeneous nuclear RNA in eukaryotic cells. <i>Journal of Molecular Biology</i> , <b>1974</b> , 83, 163-83	6.5	281
121	Multicolor CRISPR labeling of chromosomal loci in human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3002-7	11.5	276
120	Half a century of "the nuclear matrix". <i>Molecular Biology of the Cell</i> , <b>2000</b> , 11, 799-805	3.5	257
119	Multiplexed labeling of genomic loci with dCas9 and engineered sgRNAs using CRISPRainbow. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 528-30	44.5	242
118	The nucleolus. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3,	10.2	225
117	Movement of nuclear poly(A) RNA throughout the interchromatin space in living cells. <i>Current Biology</i> , <b>1999</b> , 9, 285-91	6.3	166
116	Actin in the nucleus: what form and what for?. <i>Journal of Structural Biology</i> , <b>2002</b> , 140, 3-9	3.4	164
115	Chromatin: its isolation from cultured mammalian cells with particular reference to contamination by nuclear ribnucleoprotein particles. <i>Biochemistry</i> , <b>1973</b> , 12, 2766-73	3.2	149
114	Base-pairing interactions between small nuclear RNAs and nuclear RNA precursors as revealed by psoralen cross-linking in vivo. <i>Cell</i> , <b>1981</b> , 26, 363-70	56.2	142
113	MicroRNAs with a nucleolar location. <i>Rna</i> , <b>2009</b> , 15, 1705-15	5.8	141
112	In search of nonribosomal nucleolar protein function and regulation. <i>Journal of Cell Biology</i> , <b>2009</b> , 184, 771-6	7.3	128
111	MicroRNA-206 colocalizes with ribosome-rich regions in both the nucleolus and cytoplasm of rat myogenic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18957-62	11.5	127
110	Thinking about a nuclear matrix. <i>Journal of Molecular Biology</i> , <b>1998</b> , 277, 147-59	6.5	125
109	Comparison of mitotic phenomena and effects induced by hypertonic solutions in HeLa cells. <i>Journal of Cell Biology</i> , <b>1970</b> , 44, 400-16	7.3	124
108	Comparison of proteins bound to heterogeneous nuclear RNA and messenger RNA in HeLa cells. <i>Journal of Molecular Biology</i> , <b>1975</b> , 96, 353-65	6.5	121
107	Nuclear actin extends, with no contraction in sight. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 5055-60	3.5	116
106	The nucleolus and the four ribonucleoproteins of translation. <i>Journal of Cell Biology</i> , <b>2000</b> , 148, 1091-5	7.3	106

105	Visualization of repetitive DNA sequences in human chromosomes with transcription activator-like effectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 21048-53	11.5	100
104	CRISPR-Cas9 nuclear dynamics and target recognition in living cells. <i>Journal of Cell Biology</i> , <b>2016</b> , 214, 529-37	7.3	98
103	Regulatory RNAs derived from transfer RNA?. <i>Rna</i> , <b>2010</b> , 16, 1865-9	5.8	98
102	Depletion of the nucleolar protein nucleostemin causes G1 cell cycle arrest via the p53 pathway. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 2630-5	3.5	93
101	Chromatin structure and the cell division cycle. Actinomycin binding in synchronized HeLa cells. <i>Journal of Cell Biology</i> , <b>1972</b> , 55, 322-7	7.3	92
100	Protein mobility within the nucleus--what are the right moves?. <i>Cell</i> , <b>2001</b> , 104, 635-8	56.2	87
99	Growth factors in the nucleolus?. <i>Journal of Cell Biology</i> , <b>1998</b> , 143, 279-81	7.3	84
98	As functional nuclear actin comes into view, is it globular, filamentous, or both?. <i>Journal of Cell Biology</i> , <b>2008</b> , 180, 1061-4	7.3	79
97	An MBoC Favorite: A guide to simple and informative binding assays. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 1400-1400	3.5	78
96	Jonathan R. Warner (1936-2019) Pioneer of ribosome biosynthesis. <i>Rna</i> , <b>2019</b> , 25, vii-ix	5.8	78
95	Rapid, diffusional shuttling of poly(A) RNA between nuclear speckles and the nucleoplasm. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 1239-49	3.5	74
94	A nonribosomal landscape in the nucleolus revealed by the stem cell protein nucleostemin. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 3401-10	3.5	72
93	Diffusion-based transport of nascent ribosomes in the nucleus. <i>Molecular Biology of the Cell</i> , <b>2003</b> , 14, 4805-12	3.5	71
92	CRISPR-Sirius: RNA scaffolds for signal amplification in genome imaging. <i>Nature Methods</i> , <b>2018</b> , 15, 928-931	3.6	65
91	Connecting the nucleolus to the cell cycle and human disease. <i>FASEB Journal</i> , <b>2014</b> , 28, 3290-6	0.9	64
90	Genome function and nuclear architecture: from gene expression to nanoscience. <i>Genome Research</i> , <b>2003</b> , 13, 1029-41	9.7	56
89	RNA polymerase III transcripts and the PTB protein are essential for the integrity of the perinucleolar compartment. <i>Molecular Biology of the Cell</i> , <b>2003</b> , 14, 2425-35	3.5	54
88	Signal recognition particle RNA localization within the nucleolus differs from the classical sites of ribosome synthesis. <i>Journal of Cell Biology</i> , <b>2002</b> , 159, 411-8	7.3	52

87	Review: movement of mRNA from transcription site to nuclear pores. <i>Journal of Structural Biology</i> , <b>2000</b> , 129, 252-7	3.4	50
86	Relationship between protein synthesis and ribosome assembly in HeLa cells. <i>Journal of Molecular Biology</i> , <b>1971</b> , 61, 655-68	6.5	50
85	Nucleostemin: a multiplex regulator of cell-cycle progression. <i>Trends in Cell Biology</i> , <b>2008</b> , 18, 575-9	18.3	46
84	Nucleoprotein organization of inverted repeat DNA transcripts in heterogeneous nuclear RNA-ribonucleoprotein particles from HeLa cells. <i>Journal of Molecular Biology</i> , <b>1978</b> , 122, 361-78	6.5	45
83	The spatial organization of the genome in mammalian cells. <i>Current Opinion in Genetics and Development</i> , <b>2004</b> , 14, 203-9	4.9	40
82	Isolation and characterization of chromatin from the cellular slime mold, <i>Dictyostelium discoideum</i> . <i>Biochemistry</i> , <b>1977</b> , 16, 2771-7	3.2	37
81	Sequence complexity of nuclear and messenger RNA in HeLa cells. <i>Journal of Molecular Biology</i> , <b>1980</b> , 138, 755-78	6.5	36
80	The nucleolus stress response is coupled to an ATR-Chk1-mediated G2 arrest. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 1334-42	3.5	34
79	Isolation and characterization of ribonucleoprotein particles containing heterogeneous nuclear RNA. <i>Methods in Cell Biology</i> , <b>1978</b> , 17, 377-99	1.8	34
78	RNA synthesis in HeLa cells. Pattern in hypertonic medium and its similarity to synthesis during G2-prophase. <i>Journal of Cell Biology</i> , <b>1970</b> , 47, 734-44	7.3	30
77	A 62,000 molecular weight spliceosome protein crosslinks to the intron polypyrimidine tract. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 5995-6001	20.1	29
76	A 7-methylguanosine cap commits U3 and U8 small nuclear RNAs to the nucleolar localization pathway. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 756-60	20.1	28
75	Signal recognition particle assembly in relation to the function of amplified nucleoli of <i>Xenopus</i> oocytes. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 1299-307	5.3	27
74	The nucleus introduced. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3,	10.2	26
73	Dynamics and genome-centricity of interchromatin domains in the nucleus. <i>Nature Cell Biology</i> , <b>2002</b> , 4, E287-91	23.4	26
72	Nuclear export of signal recognition particle RNA in mammalian cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 313, 351-5	3.4	25
71	A human U2 RNA mutant stalled in 3Send processing is impaired in nuclear import. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 1025-31	20.1	24
70	Nucleophosmin is a binding partner of nucleostemin in human osteosarcoma cells. <i>Molecular Biology of the Cell</i> , <b>2008</b> , 19, 2870-5	3.5	22

69	Movement and localization of RNA in the cell nucleus. <i>FASEB Journal</i> , <b>1999</b> , 13 Suppl 2, S238-42	0.9	21
68	Cell cycle- and genomic distance-dependent dynamics of a discrete chromosomal region. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 1467-1477	7.3	20
67	Nucleostemin and GNL3L exercise distinct functions in genome protection and ribosome synthesis, respectively. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 2302-12	5.3	20
66	A method for improving synchrony in the G2 phase of the cell cycle. <i>Journal of Cell Biology</i> , <b>1971</b> , 49, 942-5	7.3	20
65	A mRNA and cognate microRNAs localize in the nucleolus. <i>Nucleus</i> , <b>2014</b> , 5, 636-42	3.9	18
64	Historical review: an energy reservoir for mitosis, and its productive wake. <i>Trends in Biochemical Sciences</i> , <b>2003</b> , 28, 125-9	10.3	16
63	Absence of translational control of histone synthesis during the HeLa cell life cycle. <i>Journal of Cell Biology</i> , <b>1970</b> , 45, 509-13	7.3	16
62	"Compact" nuclear domains: reconsidering the nucleolus. <i>Nucleus</i> , <b>2010</b> , 1, 444-5	3.9	15
61	Turning a PAGE: the overnight sensation of SDS-polyacrylamide gel electrophoresis. <i>FASEB Journal</i> , <b>2008</b> , 22, 949-53	0.9	15
60	The sea urchin's siren. <i>Developmental Biology</i> , <b>2006</b> , 300, 9-14	3.1	15
59	Ribosomal protein mutations in Diamond-Blackfan anemia: might they operate upstream from protein synthesis?. <i>FASEB Journal</i> , <b>2007</b> , 21, 3442-5	0.9	12
58	RNA interference and mRNA silencing, 2004: how far will they reach?. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 407-10	3.5	11
57	Is the nucleus in need of translation?. <i>Trends in Cell Biology</i> , <b>2001</b> , 11, 395-7	18.3	10
56	RNA Traffic and Localization Reported by Fluorescent Molecular Cytochemistry in Living Cells <b>1997</b> , 341-359		10
55	Simultaneous epigenetic perturbation and genome imaging reveal distinct roles of H3K9me3 in chromatin architecture and transcription. <i>Genome Biology</i> , <b>2020</b> , 21, 296	18.3	8
54	The nuclear physique. <i>International Review of Cell and Molecular Biology</i> , <b>2014</b> , 307, 1-13	6	8
53	STRIDE-a fluorescence method for direct, specific in situ detection of individual single- or double-strand DNA breaks in fixed cells. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, e14	20.1	8
52	Can telomerase be put in its place?. <i>Journal of Cell Biology</i> , <b>2004</b> , 164, 637-9	7.3	7

51	Macromolecular synthesis in dogfish peripheral blood cells. <i>Journal of Cell Biology</i> , <b>1970</b> , 45, 183-7	7.3	7
50	The persistent plausibility of protein synthesis in the nucleus: process, palimpsest or pitfall?. <i>Current Opinion in Cell Biology</i> , <b>2013</b> , 25, 520-1	9	6
49	Forces, fluctuations, and self-organization in the nucleus. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 3915-9	3.5	6
48	Repeated TALEs: visualizing DNA sequence localization and chromosome dynamics in live cells. <i>Nucleus</i> , <b>2014</b> , 5, 28-31	3.9	6
47	Metabolic stability of messenger ribonucleoprotein in HeLa cells. <i>Nucleic Acids and Protein Synthesis</i> , <b>1975</b> , 395, 388-91		6
46	Nuclear physics (of the cell, not the atom). <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 3466-9	3.5	5
45	50 years ago protein synthesis met molecular biology: the discoveries of amino acid activation and transfer RNA. <i>FASEB Journal</i> , <b>2005</b> , 19, 1583-4	0.9	5
44	Human cell lines expressing hormone regulated T7 RNA polymerase localized at distinct intranuclear sites. <i>Gene</i> , <b>2001</b> , 275, 73-81	3.8	5
43	PML-like subnuclear bodies, containing XRCC1, juxtaposed to DNA replication-based single-strand breaks. <i>FASEB Journal</i> , <b>2019</b> , 33, 2301-2313	0.9	5
42	Networking development by Boolean logic. <i>Nucleus</i> , <b>2013</b> , 4, 89-91	3.9	3
41	An Olympian protozoan. <i>Nucleus</i> , <b>2010</b> , 1, 2-3	3.9	3
40	Molecular Biology of the Gene: by James D. Watson: W. A. Benjamin (1965): New York, New York. <i>FASEB Journal</i> , <b>2015</b> , 29, 4399-401	0.9	2
39	The discovery of eukaryotic genome design and its forgotten corollary--the postulate of gene regulation by nuclear RNA. <i>FASEB Journal</i> , <b>2009</b> , 23, 2019-21	0.9	2
38	Milestone Books. <i>FASEB Journal</i> , <b>2011</b> , 25, 2512-2512	0.9	2
37	The "study" role of past National Institutes of Health study sections. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 3281-4	3.5	2
36	Reflections on the prize of prizes: Alfred Nobel. <i>FASEB Journal</i> , <b>2006</b> , 20, 2186-9	0.9	2
35	Photoactivation-based labeling and in vivo tracking of RNA molecules in the nucleus. <i>Cold Spring Harbor Protocols</i> , <b>2006</b> , 2006,	1.2	2
34	Genome architecture and expression 2019-2020: the transition phase. <i>Current Opinion in Genetics and Development</i> , <b>2021</b> , 67, 1-4	4.9	2

33	The Phase Diagram of a Self-Absorbed Life: Carl Djerassi in Retrospect-From the Pill to the Pen. <i>FASEB Journal</i> , <b>2015</b> , 29, 745-747	0.9	1
32	Fair and prompt. <i>Rna</i> , <b>2015</b> , 21, 711	5.8	1
31	Nuclear export, enlightened. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 9228-9	11.5	1
30	Cell biology: a high-resolution image, viewed through a powerful lens. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 1260-1262	3.5	1
29	Life, redrawn: a memoir of Carl R. Woese (1928-2012). <i>FASEB Journal</i> , <b>2013</b> , 27, 1285-7	0.9	1
28	Paul Doty and the modern era of DNA as a molecule. <i>FASEB Journal</i> , <b>2012</b> , 26, 967-8	0.9	1
27	Steroid sonnets: a conversation with Seymour Lieberman (1916-2012). Interview by Thoru Pederson. <i>FASEB Journal</i> , <b>2012</b> , 26, 4775-7	0.9	1
26	New surprises in genetic coding and how an ingenious experiment was almost scooped, by evolution. <i>FASEB Journal</i> , <b>2006</b> , 20, 1759-60	0.9	1
25	A layperson encounter, on the "modified" RNA world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	1
24	Nucleolus, Overview <b>2004</b> , 119-122		1
23	The plurifunctional nucleolus		1
22	A 20-year encounter with the imposter syndrome. <i>Molecular Biology of the Cell</i> , <b>2020</b> , 31, 2509-2510	3.5	1
21	The Sydney Brenner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13155-13157	11.5	0
20	Jęg Langowski 1955-2017. <i>Nucleus</i> , <b>2017</b> , 8, 381-382	3.9	0
19	Turning on a dime: the 75th anniversary of America's march against polio. <i>FASEB Journal</i> , <b>2013</b> , 27, 2533-9	0.9	0
18	Eric Kandel and Charlie Rose: a stylish synapse. Review of The Brain Series, (televised on The Charlie Rose Show, syndicated by the Public Broadcasting System, now available on DVD). <i>FASEB Journal</i> , <b>2011</b> , 25, 1438-40	0.9	0
17	Sense and antisense in biotech: the first antisense DNA company. <i>FASEB Journal</i> , <b>2012</b> , 26, 3594-601	0.9	0
16	The Centriole Mystique. <i>Trends in Cell Biology</i> , <b>2020</b> , 30, 590-593	18.3	0

15	The Memorable and Upbeat M.C. Chang. <i>Molecular Reproduction and Development</i> , <b>2016</b> , 83, 853-854	2.6	o
14	Informosomes, East and West. <i>Biochemistry (Moscow)</i> , <b>2021</b> , 86, 1041-1043	2.9	o
13	The UVSSA protein is part of a genome integrity homeostasis network with links to transcription-coupled DNA repair and ATM signaling.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2116254119	11.5	o
12	Günter Blobel: a voyager of the cell. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 1281-1283	3.5	
11	Is chromatin helical?. <i>Nature Reviews Molecular Cell Biology</i> , <b>2011</b> , 13, 6	48.7	
10	"Tall oaks fallen": three pioneers of chromosome science. <i>Nucleus</i> , <b>2012</b> , 3, 113-4	3.9	
9	Author, author burning bright; author, author are you right?. <i>FASEB Journal</i> , <b>2006</b> , 20, 600	0.9	
8	Counterpoint: Statistical analysis in NIH peer review--identifying innovation. <i>FASEB Journal</i> , <b>2007</b> , 21, 309-10; discussion 311	0.9	
7	Nuclear impressionism: how the active genome creates the very canvas on which gene expression is painted. <i>Journal of Applied Biomedicine</i> , <b>2003</b> , 1, 113-116	0.6	
6	Arthur B. Pardee (1921-2019). <i>Science</i> , <b>2019</b> , 364, 238	33.3	
5	A tribute to Gerald Weissmann (1930-2019). <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 4553-4555	15.9	
4	The expanded repertoire of a classical intranuclear domain. <i>FASEB Journal</i> , <b>2012</b> , 26, 201.2	0.9	
3	Millie Hughes-Fulford, 1945-2021. <i>FASEB Journal</i> , <b>2021</b> , 35, e21493	0.9	
2	A CRISPR-Based Selective Gene Inhibition Method Reveals Dynamic Features of a Cell Nucleus Nanobody Related to the Disease Myotonic Dystrophy. <i>Small Methods</i> , <b>2018</b> , 2, 1700400	12.8	
1	A century of DNA reaches the bedside. <i>The Pharos of Alpha Omega Alpha-honor Medical Society Alpha Omega Alpha</i> , <b>2002</b> , 65, 27-32		