

Philip J Thomas

List of Publications by Year in descending order

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118
papers

11,346
citations

36303

51
h-index

29157

104
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122
all docs

122
docs citations

122
times ranked

9658
citing authors

#	ARTICLE	IF	CITATIONS
1	ATP Binding to the Motor Domain from an ABC Transporter Drives Formation of a Nucleotide Sandwich Dimer. <i>Molecular Cell</i> , 2002, 10, 139-149.	9.7	738
2	Defining the disease liability of variants in the cystic fibrosis transmembrane conductance regulator gene. <i>Nature Genetics</i> , 2013, 45, 1160-1167.	21.4	513
3	Defective protein folding as a basis of human disease. <i>Trends in Biochemical Sciences</i> , 1995, 20, 456-459.	7.5	511
4	Dynamic Association of Proteasomal Machinery with the Centrosome. <i>Journal of Cell Biology</i> , 1999, 145, 481-490.	5.2	479
5	Gating of CFTR by the STAS domain of SLC26 transporters. <i>Nature Cell Biology</i> , 2004, 6, 343-350.	10.3	431
6	Endoproteolytic Activity of the Proteasome. <i>Science</i> , 2003, 299, 408-411.	12.6	387
7	Structure of nucleotide-binding domain 1 of the cystic fibrosis transmembrane conductance regulator. <i>EMBO Journal</i> , 2004, 23, 282-293.	7.8	376
8	Aberrant CFTR-dependent HCO ₃ ⁻ transport in mutations associated with cystic fibrosis. <i>Nature</i> , 2001, 410, 94-97.	27.8	362
9	Cooperative, ATP-dependent Association of the Nucleotide Binding Cassettes during the Catalytic Cycle of ATP-binding Cassette Transporters. <i>Journal of Biological Chemistry</i> , 2002, 277, 21111-21114.	3.4	303
10	A molecular mechanism for aberrant CFTR-dependent HCO ₃ ⁻ transport in cystic fibrosis. <i>EMBO Journal</i> , 2002, 21, 5662-5672.	7.8	287
11	Crystal Structures of the MJ1267 ATP Binding Cassette Reveal an Induced-Fit Effect at the ATPase Active Site of an ABC Transporter. <i>Structure</i> , 2001, 9, 571-586.	3.3	278
12	CFTR regulatory region interacts with NBD1 predominantly via multiple transient helices. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 738-745.	8.2	267
13	Requirements for Efficient Correction of F508 CFTR Revealed by Analyses of Evolved Sequences. <i>Cell</i> , 2012, 148, 164-174.	28.9	243
14	Reduced histone deacetylase 7 activity restores function to misfolded CFTR in cystic fibrosis. <i>Nature Chemical Biology</i> , 2010, 6, 25-33.	8.0	237
15	A Precipitating Role for Truncated α -Synuclein and the Proteasome in α -Synuclein Aggregation. <i>Journal of Biological Chemistry</i> , 2005, 280, 22670-22678.	3.4	229
16	The Crystal Structure of the MJ0796 ATP-binding Cassette. <i>Journal of Biological Chemistry</i> , 2001, 276, 32313-32321.	3.4	218
17	CFTR modulator therotyping: Current status, gaps and future directions. <i>Journal of Cystic Fibrosis</i> , 2019, 18, 22-34.	0.7	208
18	Side chain and backbone contributions of Phe508 to CFTR folding. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 10-16.	8.2	173

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19	Cystic Fibrosis Transmembrane Conductance Regulator Regulates Luminal Cl ⁻ /HCO ₃ ⁻ Exchange in Mouse Submandibular and Pancreatic Ducts. <i>Journal of Biological Chemistry</i> , 1999, 274, 14670-14677.	3.4	171
20	Recognition of Misfolding Proteins by PA700, the Regulatory Subcomplex of the 26 S Proteasome. <i>Journal of Biological Chemistry</i> , 2000, 275, 5565-5572.	3.4	168
21	Cell Surface Stability of \hat{I}^3 -Aminobutyric Acid Type A Receptors. <i>Journal of Biological Chemistry</i> , 1999, 274, 36565-36572.	3.4	167
22	Protein solubility and folding monitored in vivo by structural complementation of a genetic marker protein. <i>Nature Biotechnology</i> , 2001, 19, 131-136.	17.5	167
23	Coupling Modes and Stoichiometry of Cl ⁻ /HCO ₃ ⁻ Exchange by slc26a3 and slc26a6. <i>Journal of General Physiology</i> , 2006, 127, 511-524.	1.9	165
24	The Cystic Fibrosis-causing Mutation \hat{I}^3 F508 Affects Multiple Steps in Cystic Fibrosis Transmembrane Conductance Regulator Biogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 35825-35835.	3.4	160
25	ATP Binding and ATP Hydrolysis Play Distinct Roles in the Function of 26S Proteasome. <i>Molecular Cell</i> , 2006, 24, 39-50.	9.7	158
26	Activity and Regulation of the Centrosome-associated Proteasome. <i>Journal of Biological Chemistry</i> , 2000, 275, 409-413.	3.4	155
27	Methylenetetrahydrofolate Reductase C677T Polymorphism, Folic Acid and Riboflavin Are Important Determinants of Genome Stability in Cultured Human Lymphocytes. <i>Journal of Nutrition</i> , 2004, 134, 48-56.	2.9	149
28	Regulatory R region of the CFTR chloride channel is a dynamic integrator of phospho-dependent intra- and intermolecular interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4427-36.	7.1	142
29	Alteration of the Cystic Fibrosis Transmembrane Conductance Regulator Folding Pathway. <i>Journal of Biological Chemistry</i> , 1996, 271, 7261-7264.	3.4	141
30	Slc26a6 regulates CFTR activity in vivo to determine pancreatic duct HCO ₃ ⁻ secretion: relevance to cystic fibrosis. <i>EMBO Journal</i> , 2006, 25, 5049-5057.	7.8	141
31	Regulation of Cl ⁻ /HCO ₃ ⁻ Exchange by Cystic Fibrosis Transmembrane Conductance Regulator Expressed in NIH 3T3 and HEK 293 Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 3414-3421.	3.4	132
32	Localization and Suppression of a Kinetic Defect in Cystic Fibrosis Transmembrane Conductance Regulator Folding. <i>Journal of Biological Chemistry</i> , 1997, 272, 15739-15744.	3.4	126
33	A Conserved GXXXG Motif in APH-1 Is Critical for Assembly and Activity of the \hat{I}^3 -Secretase Complex. <i>Journal of Biological Chemistry</i> , 2004, 279, 4144-4152.	3.4	111
34	The Molecular Chaperone Hsc70 Assists the in Vitro Folding of the N-terminal Nucleotide-binding Domain of the Cystic Fibrosis Transmembrane Conductance Regulator. <i>Journal of Biological Chemistry</i> , 1997, 272, 25421-25424.	3.4	109
35	Uncoupling retro-translocation and degradation in the ER-associated degradation of a soluble protein. <i>EMBO Journal</i> , 2004, 23, 2206-2215.	7.8	106
36	Active nuclear import and passive nuclear export are the primary determinants of TDP-43 localization. <i>Scientific Reports</i> , 2018, 8, 7083.	3.3	106

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37	NMR evidence for differential phosphorylation-dependent interactions in WT and Δ F508 CFTR. <i>EMBO Journal</i> , 2010, 29, 263-277.	7.8	103
38	IRBIT governs epithelial secretion in mice by antagonizing the WNK/SPAK kinase pathway. <i>Journal of Clinical Investigation</i> , 2011, 121, 956-965.	8.2	92
39	Dynamic Control of Cystic Fibrosis Transmembrane Conductance Regulator $\text{Cl}^-/\text{HCO}_3^-$ Selectivity by External Cl^- . <i>Journal of Biological Chemistry</i> , 2004, 279, 21857-21865.	3.4	91
40	Isogenic cell models of cystic fibrosis-causing variants in natively expressing pulmonary epithelial cells. <i>Journal of Cystic Fibrosis</i> , 2019, 18, 476-483.	0.7	88
41	The Cystic Fibrosis Transmembrane Conductance Regulator Interacts with and Regulates the Activity of the HCO_3^- Salvage Transporter Human $\text{Na}^+\text{-HCO}_3^-$ Cotransport Isoform 3. <i>Journal of Biological Chemistry</i> , 2002, 277, 50503-50509.	3.4	87
42	A quantum-logic gate between distant quantum-network modules. <i>Science</i> , 2021, 371, 614-617.	12.6	86
43	Direct Binding of the Corrector VX-809 to Human CFTR NBD1: Evidence of an Allosteric Coupling between the Binding Site and the NBD1:CL4 Interface. <i>Molecular Pharmacology</i> , 2017, 92, 124-135.	2.3	85
44	Organic Solutes Rescue the Functional Defect in Δ F508 Cystic Fibrosis Transmembrane Conductance Regulator. <i>Journal of Biological Chemistry</i> , 2003, 278, 51232-51242.	3.4	80
45	Inefficient SRP Interaction with a Nascent Chain Triggers a mRNA Quality Control Pathway. <i>Cell</i> , 2014, 156, 146-157.	28.9	77
46	The Primary Folding Defect and Rescue of Δ F508 CFTR Emerge during Translation of the Mutant Domain. <i>PLoS ONE</i> , 2010, 5, e15458.	2.5	76
47	Solubilizing Mutations Used to Crystallize One CFTR Domain Attenuate the Trafficking and Channel Defects Caused by the Major Cystic Fibrosis Mutation. <i>Chemistry and Biology</i> , 2008, 15, 62-69.	6.0	74
48	Altered protein folding may be the molecular basis of most cases of cystic fibrosis. <i>FEBS Letters</i> , 1992, 312, 7-9.	2.8	67
49	Conformational Remodeling of Proteasomal Substrates by PA700, the 19 S Regulatory Complex of the 26 S Proteasome. <i>Journal of Biological Chemistry</i> , 2002, 277, 26815-26820.	3.4	63
50	Congenital Chloride-losing Diarrhea Causing Mutations in the STAS Domain Result in Misfolding and Mistrafficking of SLC26A3. <i>Journal of Biological Chemistry</i> , 2008, 283, 8711-8722.	3.4	60
51	Cystic fibrosis: a disease of altered protein folding. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 483-490.	2.3	55
52	Building an understanding of cystic fibrosis on the foundation of ABC transporter structures. <i>Journal of Bioenergetics and Biomembranes</i> , 2007, 39, 499-505.	2.3	52
53	A Unique Redox-sensing Sensor II Motif in TorsinA Plays a Critical Role in Nucleotide and Partner Binding*. <i>Journal of Biological Chemistry</i> , 2010, 285, 37271-37280.	3.4	52
54	Buccal micronucleus cytome assay: results of an intra- and inter-laboratory scoring comparison. <i>Mutagenesis</i> , 2015, 30, 545-555.	2.6	51

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55	17 β -Estradiol Dysregulates Innate Immune Responses to <i>Pseudomonas aeruginosa</i> Respiratory Infection and Is Modulated by Estrogen Receptor Antagonism. <i>Infection and Immunity</i> , 2017, 85, .	2.2	50
56	Long-term culture and cloning of primary human bronchial basal cells that maintain multipotent differentiation capacity and CFTR channel function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L313-L327.	2.9	48
57	A protein sequence that can encode native structure by disfavoring alternate conformations. <i>Nature Structural Biology</i> , 2002, 9, 381-8.	9.7	45
58	Zinc deficiency or excess within the physiological range increases genome instability and cytotoxicity, respectively, in human oral keratinocyte cells. <i>Genes and Nutrition</i> , 2012, 7, 139-154.	2.5	40
59	Characterization of novel small-molecule NRF2 activators: Structural and biochemical validation of stereospecific KEAP1 binding. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2537-2552.	2.4	40
60	Effects of the Δ F508 mutation on the structure, function, and folding of the first nucleotide-binding domain of CFTR. <i>Journal of Bioenergetics and Biomembranes</i> , 1993, 25, 11-19.	2.3	39
61	Transmembrane Domain of Cystic Fibrosis Transmembrane Conductance Regulator: Design, Characterization, and Secondary Structure of Synthetic Peptides m1 \sim m6. <i>Biochemistry</i> , 1998, 37, 844-853.	2.5	37
62	Abnormal Neurites Containing C-Terminally Truncated Δ -Synuclein Are Present in Alzheimer's Disease without Conventional Lewy Body Pathology. <i>American Journal of Pathology</i> , 2010, 177, 3037-3050.	3.8	37
63	Cytoprotective and pro-apoptotic activities of native Australian herbs polyphenolic-rich extracts. <i>Food Chemistry</i> , 2013, 136, 9-17.	8.2	36
64	Melatonin in Assisted Reproductive Technology: A Pilot Double-Blind Randomized Placebo-Controlled Clinical Trial. <i>Frontiers in Endocrinology</i> , 2018, 9, 545.	3.5	34
65	GABAAR isoform and subunit structural motifs determine synaptic and extrasynaptic receptor localisation. <i>Neuropharmacology</i> , 2020, 169, 107540.	4.1	34
66	Alteration of CFTR transmembrane span integration by disease-causing mutations. <i>Molecular Biology of the Cell</i> , 2011, 22, 4461-4471.	2.1	32
67	Biomarkers of Alzheimer's Disease Risk in Peripheral Tissues; Focus on Buccal Cells. <i>Current Alzheimer Research</i> , 2014, 11, 519-531.	1.4	31
68	Altered cytological parameters in buccal cells from individuals with mild cognitive impairment and Alzheimer's disease. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014, 85, 698-708.	1.5	31
69	Quantum Teleportation between Remote Qubit Memories with Only a Single Photon as a Resource. <i>Physical Review Letters</i> , 2021, 126, 130502.	7.8	31
70	Regulatory interaction between CFTR and the SLC26 transporters. <i>Novartis Foundation Symposium</i> , 2006, 273, 177-86; discussion 186-92, 261-4.	1.1	31
71	Pathogenic Signal Sequence Mutations in Progranulin Disrupt SRP Interactions Required for mRNA Stability. <i>Cell Reports</i> , 2018, 23, 2844-2851.	6.4	30
72	Modulation of neurosteroid potentiation by protein kinases at synaptic- and extrasynaptic-type GABAA receptors. <i>Neuropharmacology</i> , 2015, 88, 63-73.	4.1	27

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73	Nucleotide Binding Domain Interactions During the Mechanochemical Reaction Cycle of ATP-Binding Cassette Transporters. <i>Journal of Bioenergetics and Biomembranes</i> , 2005, 37, 475-479.	2.3	26
74	Interpretation and performance in Bryn Harrison's <i>À-tre-temps</i> . <i>Musicae Scientiae</i> , 2005, 9, 31-74.	2.9	26
75	Workers exposed to wood dust have an increased micronucleus frequency in nasal and buccal cells: results from a pilot study. <i>Mutagenesis</i> , 2014, 29, 201-207.	2.6	26
76	Mutations That Change the Position of the Putative $\hat{1}^3$ -Phosphate Linker in the Nucleotide Binding Domains of CFTR Alter Channel Gating. <i>Journal of Biological Chemistry</i> , 2002, 277, 2125-2131.	3.4	25
77	The BiP Molecular Chaperone Plays Multiple Roles during the Biogenesis of TorsinA, an AAA+ ATPase Associated with the Neurological Disease Early-onset Torsion Dystonia. <i>Journal of Biological Chemistry</i> , 2014, 289, 12727-12747.	3.4	25
78	A snapshot of Nature's favorite pump. , 2001, 8, 920-923.		23
79	Potential role of folate in pre-eclampsia. <i>Nutrition Reviews</i> , 2015, 73, 694-722.	5.8	23
80	Chromosomal DNA damage measured using the cytokinesis-block micronucleus cytome assay is significantly associated with cognitive impairment in <i>S</i> outh <i>A</i> ustralians. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 32-40.	2.2	23
81	Inter-laboratory consistency and variability in the buccal micronucleus cytome assay depends on biomarker scored and laboratory experience: results from the HUMNxl international inter-laboratory scoring exercise. <i>Mutagenesis</i> , 2016, 32, gew047.	2.6	23
82	High Content, Multi-Parameter Analyses in Buccal Cells to Identify Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016, 13, 787-799.	1.4	23
83	Cytotoxicity and genotoxicity of orthodontic bands with or without silver soldered joints. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014, 762, 1-8.	1.7	22
84	Automation of the Buccal Micronucleus Cytome Assay Using Laser Scanning Cytometry. <i>Methods in Cell Biology</i> , 2011, 102, 321-339.	1.1	21
85	Accelerated formation of $\hat{1}\pm$ -synuclein oligomers by concerted action of the 20S proteasome and familial Parkinson mutations. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 85-95.	2.3	20
86	Lack of Evidence for Genomic Instability in Autistic Children as Measured by the Cytokinesis-block Micronucleus Cytome Assay. <i>Autism Research</i> , 2015, 8, 94-104.	3.8	19
87	Probing GABAA receptors with inhibitory neurosteroids. <i>Neuropharmacology</i> , 2018, 136, 23-36.	4.1	18
88	Chromosomal localization of genes required for the terminal steps of oxidative metabolism: ? and ? subunits of ATP synthase and the phosphate carrier. <i>Human Genetics</i> , 1994, 93, 600-2.	3.8	17
89	Development of CFTR structure. <i>Frontiers in Pharmacology</i> , 2012, 3, 162.	3.5	17
90	Alkyl-modified side chain variants of anatoxin-a: A series of potent nicotinic agonists. <i>Drug Development Research</i> , 1994, 31, 147-156.	2.9	16

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91	Tracking Cell Surface Mobility of GPCRs Using $\hat{\pm}$ -Bungarotoxin-Linked Fluorophores. <i>Methods in Enzymology</i> , 2013, 521, 109-129.	1.0	16
92	Necrosis is increased in lymphoblastoid cell lines from children with autism compared with their non-autistic siblings under conditions of oxidative and nitrosative stress. <i>Mutagenesis</i> , 2013, 28, 475-484.	2.6	14
93	Genome instability biomarkers and blood micronutrient risk profiles associated with mild cognitive impairment and Alzheimer's disease. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 776, 54-83.	1.0	14
94	TDP-43 Identified from a Genome Wide RNAi Screen for SOD1 Regulators. <i>PLoS ONE</i> , 2012, 7, e35818.	2.5	13
95	Extracellular amyloid beta 42 causes necrosis, inhibition of nuclear division, and mitotic disruption under both folate deficient and folate replete conditions as measured by the cytokinesis block micronucleus cytome assay. <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 1-14.	2.2	13
96	Homologies and disparities of glutamate receptors: A critical analysis. <i>Neurochemistry International</i> , 1993, 23, 583-594.	3.8	11
97	Infant birth outcomes are associated with DNA damage biomarkers as measured by the cytokinesis block micronucleus cytome assay: the DADHI study. <i>Mutagenesis</i> , 2017, 32, 355-370.	2.6	11
98	A role for the ribosome-associated complex in activation of the IRE1 branch of UPR. <i>Cell Reports</i> , 2021, 35, 109217.	6.4	8
99	In vivo evaluation of the genotoxic effects of Hyrax auxiliary orthodontic appliances containing silver-soldered joints. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015, 791, 25-29.	1.7	7
100	First Experiences with the Spanner [®] , ϕ Temporary Prostatic Stent for Prostatic Urethral Obstruction. <i>Urologia Internationalis</i> , 2013, 91, 384-390.	1.3	6
101	Effect of docosahexaenoic acid and furan fatty acids on cytokinesis block micronucleus cytome assay biomarkers in astrocytoma cell lines under conditions of oxidative stress. <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 573-590.	2.2	5
102	Biochemical and Biophysical Approaches to Probe CFTR Structure. <i>Methods in Molecular Biology</i> , 2011, 741, 365-376.	0.9	5
103	Interlayer tunnelling in Bi2Sr2CaCu2O8+ $\hat{\nu}$ single crystals. <i>Physica B: Condensed Matter</i> , 2000, 280, 245-246.	2.7	4
104	A Screen to Identify Cellular Modulators of Soluble Levels of an Amyotrophic Lateral Sclerosis (ALS) $\hat{\nu}$ Causing Mutant SOD1. <i>Journal of Biomolecular Screening</i> , 2011, 16, 974-985.	2.6	4
105	N-Alpha-Acetyltransferases and Regulation of CFTR Expression. <i>PLoS ONE</i> , 2016, 11, e0155430.	2.5	4
106	Restricted gene flow across fragmented populations of <i>Legrandia concinna</i> , a threatened Myrtaceae endemic to south-central Chile. <i>Bosque</i> , 2011, 32, 30-38.	0.3	3
107	Chromosomal \langle sc \rangle DNA \langle /sc \rangle damage in \langle sc \rangle APOE \langle /sc \rangle $\hat{\nu}$ 4 carriers and noncarriers does not appear to be different. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 694-708.	2.2	3
108	Intentional Innovation Communities: Concepts and Preliminary Evidence. <i>Economic Development Quarterly</i> , 2017, 31, 100-115.	0.9	2

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109	Introduction to Section IV: Biophysical Methods to Approach CFTR Structure. <i>Methods in Molecular Biology</i> , 2011, 741, 321-327.	0.9	2
110	A strategy for achieving innovation through Sheep Cooperative Research Centre research and development. <i>Animal Production Science</i> , 2010, 50, 1145.	1.8	1
111	F-type ATPases: Are Nucleotide Domains in Adenylate Kinase Appropriate Models for Nucleotide Domains in ATP Synthase/ATPase Complexes?. <i>Annals of the New York Academy of Sciences</i> , 1992, 671, 359-365.	3.8	0
112	New SARTOR Will Bring Big Changes. <i>Measurement and Control</i> , 1998, 31, 275-277.	1.8	0
113	An Institute for the 21st Century. <i>Measurement and Control</i> , 2008, 41, 17-19.	1.8	0
114	In-Hospital and Post-Discharge Mortality in the Extreme Elderly Admitted to Intensive Care. <i>Journal of the Intensive Care Society</i> , 2014, 15, 48-52.	2.2	0
115	The four regions in settlement space: a game-theoretical approach to investment treaty arbitration. Part II: cases. <i>Law, Probability and Risk</i> , 2018, 17, 79-98.	2.4	0
116	The four regions in settlement space: a game-theoretical approach to investment treaty arbitration. Part I: modelling. <i>Law, Probability and Risk</i> , 2018, 17, 55-78.	2.4	0
117	Matador injury case report: Spermatic cord fat pad (SCFP) interposition to support complex pelvic reconstruction-a novel technique. <i>Urology Case Reports</i> , 2018, 18, 87-88.	0.3	0
118	Microcomputer-Based Protection Systems. <i>Measurement and Control</i> , 1984, 17, 197-198.	1.8	0