

Thomas R Caulfield

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

5,219
citations

159585

30
h-index

91884

69
g-index

82
all docs

82
docs citations

82
times ranked

9480
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconventional Translation of C9ORF72 GGGGCC Expansion Generates Insoluble Polypeptides Specific to c9FTD/ALS. <i>Neuron</i> , 2013, 77, 639-646.	8.1	962
2	Apolipoprotein E and Alzheimer disease: pathobiology and targeting strategies. <i>Nature Reviews Neurology</i> , 2019, 15, 501-518.	10.1	734
3	Antisense transcripts of the expanded C9ORF72 hexanucleotide repeat form nuclear RNA foci and undergo repeat-associated non-ATG translation in c9FTD/ALS. <i>Acta Neuropathologica</i> , 2013, 126, 829-844.	7.7	506
4	Aggregation-prone c9FTD/ALS poly(GA) RAN-translated proteins cause neurotoxicity by inducing ER stress. <i>Acta Neuropathologica</i> , 2014, 128, 505-524.	7.7	284
5	Stearoyl-CoA Desaturase 1 Is a Novel Molecular Therapeutic Target for Clear Cell Renal Cell Carcinoma. <i>Clinical Cancer Research</i> , 2013, 19, 2368-2380.	7.0	214
6	PINK1, Parkin, and Mitochondrial Quality Control: What can we Learn about Parkinson's Disease Pathobiology?. <i>Journal of Parkinson's Disease</i> , 2017, 7, 13-29.	2.8	175
7	The dual functions of the extreme N-terminus of TDP-43 in regulating its biological activity and inclusion formation. <i>Human Molecular Genetics</i> , 2013, 22, 3112-3122.	2.9	156
8	Nanaomycin A Selectively Inhibits DNMT3B and Reactivates Silenced Tumor Suppressor Genes in Human Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 3015-3023.	4.1	154
9	(Patho)physiological relevance of PINK1-dependent ubiquitin phosphorylation. <i>EMBO Reports</i> , 2015, 16, 1114-1130.	4.5	147
10	Integrating Virtual Screening and Combinatorial Chemistry for Accelerated Drug Discovery. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011, 14, 475-487.	1.1	122
11	Heterozygous PINK1 p.G411S increases risk of Parkinson's disease via a dominant-negative mechanism. <i>Brain</i> , 2017, 140, 98-117.	7.6	116
12	Targeted manipulation of the sortilin-progranulin axis rescues progranulin haploinsufficiency. <i>Human Molecular Genetics</i> , 2014, 23, 1467-1478.	2.9	96
13	Phosphorylation by PINK1 Releases the UBL Domain and Initializes the Conformational Opening of the E3 Ubiquitin Ligase Parkin. <i>PLoS Computational Biology</i> , 2014, 10, e1003935.	3.2	95
14	A Structural Model for the Large Subunit of the Mammalian Mitochondrial Ribosome. <i>Journal of Molecular Biology</i> , 2006, 358, 193-212.	4.2	85
15	Synthesis and Evaluation of Derivatives of the Proteasome Deubiquitinase Inhibitor AP15. <i>Chemical Biology and Drug Design</i> , 2015, 86, 1036-1048.	3.2	83
16	Advances in the computational development of DNA methyltransferase inhibitors. <i>Drug Discovery Today</i> , 2011, 16, 418-425.	6.4	80
17	Molecular dynamics simulations of human DNA methyltransferase 3B with selective inhibitor nanaomycin A. <i>Journal of Structural Biology</i> , 2011, 176, 185-191.	2.8	77
18	Molecular Dissection of FUS Points at Synergistic Effect of Low-Complexity Domains in Toxicity. <i>Cell Reports</i> , 2018, 24, 529-537.e4.	6.4	74

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19	Structural and Functional Impact of Parkinson Disease-Associated Mutations in the E3 Ubiquitin Ligase Parkin. <i>Human Mutation</i> , 2015, 36, 774-786.	2.5	69
20	FAM111A protects replication forks from protein obstacles via its trypsin-like domain. <i>Nature Communications</i> , 2020, 11, 1318.	12.8	67
21	The PINK1 p.I368N mutation affects protein stability and ubiquitin kinase activity. <i>Molecular Neurodegeneration</i> , 2017, 12, 32.	10.8	62
22	Targeted inhibition of the deubiquitinating enzymes, <sc>USP</sc>14 and <sc>UCHL</sc>5, induces proteotoxic stress and apoptosis in <sc>W</sc>aldenstrÅm macroglobulinaemia tumour cells. <i>British Journal of Haematology</i> , 2015, 169, 377-390.	2.5	55
23	Motion of transfer RNA from the A/T state into the A-site using docking and simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2489-2500.	2.6	52
24	Optimization of Peptide Hydroxamate Inhibitors of Insulin-Degrading Enzyme Reveals Marked Substrate-Selectivity. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2246-2255.	6.4	51
25	Multifaceted peptide assisted one-pot synthesis of gold nanoparticles for plectin-1 targeted gemcitabine delivery in pancreatic cancer. <i>Nanoscale</i> , 2017, 9, 15622-15634.	5.6	46
26	Activation of the E3 ubiquitin ligase Parkin. <i>Biochemical Society Transactions</i> , 2015, 43, 269-274.	3.4	45
27	Examinations of tRNA Range of Motion Using Simulations of Cryo-EM Microscopy and X-Ray Data. <i>Journal of Biophysics</i> , 2011, 2011, 1-11.	0.8	40
28	Development of multi-drug loaded PEGylated nanodiamonds to inhibit tumor growth and metastasis in genetically engineered mouse models of pancreatic cancer. <i>Nanoscale</i> , 2019, 11, 22006-22018.	5.6	40
29	Inter-ring rotation of apolipoprotein A-I protein monomers for the double-belt model using biased molecular dynamics. <i>Journal of Molecular Graphics and Modelling</i> , 2011, 29, 1006-1014.	2.4	38
30	<i>APOE3</i>-Jacksonville (V236E) variant reduces self-aggregation and risk of dementia. <i>Science Translational Medicine</i> , 2021, 13, eabc9375.	12.4	37
31	Accelerated bottom-up drug design platform enables the discovery of novel stearyl-CoA desaturase 1 inhibitors for cancer therapy. <i>Oncotarget</i> , 2018, 9, 3-20.	1.8	35
32	Long-range Electrostatic Complementarity Governs Substrate Recognition by Human Chymotrypsin C, a Key Regulator of Digestive Enzyme Activation. <i>Journal of Biological Chemistry</i> , 2013, 288, 9848-9859.	3.4	32
33	ACEI/ARB therapy in COVID-19: the double-edged sword of ACE2 and SARS-CoV-2 viral docking. <i>Critical Care</i> , 2020, 24, 475.	5.8	27
34	Inhibition of Prohormone Convertases PC1/3 and PC2 by 2,5-Dideoxystreptamine Derivatives. <i>Molecular Pharmacology</i> , 2012, 81, 440-454.	2.3	24
35	Comparative molecular field analysis (CoMFA) and comparative molecular similarity indices analysis (CoMSIA) of some benzimidazole derivatives with trichomonocidal activity. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 3499-3508.	5.5	23
36	Selective Targeting of Extracellular Insulin-Degrading Enzyme by Quasi-Irreversible Thiol-Modifying Inhibitors. <i>ACS Chemical Biology</i> , 2015, 10, 2716-2724.	3.4	22

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37	An Acrobatic Substrate Metamorphosis Reveals a Requirement for Substrate Conformational Dynamics in Trypsin Proteolysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 26304-26319.	3.4	22
38	Disulfide engineering of human Kunitz-type serine protease inhibitors enhances proteolytic stability and target affinity toward mesotrypsin. <i>Journal of Biological Chemistry</i> , 2019, 294, 5105-5120.	3.4	20
39	An integrated approach to the discovery of potent agelastatin A analogues for brain tumors: chemical synthesis and biological, physicochemical and CNS pharmacokinetic analyses. <i>MedChemComm</i> , 2013, 4, 1093.	3.4	19
40	Protein molecular modeling techniques investigating novel <i>TAB2</i> variant R347X causing cardiomyopathy and congenital heart defects in multigenerational family. <i>Molecular Genetics & Genomic Medicine</i> , 2018, 6, 666-672.	1.2	19
41	Molecular Inhibitor of QSOX1 Suppresses Tumor Growth <i>In Vivo</i> . <i>Molecular Cancer Therapeutics</i> , 2020, 19, 112-122.	4.1	17
42	Small molecule inhibitors of mesotrypsin from a structure-based docking screen. <i>PLoS ONE</i> , 2017, 12, e0176694.	2.5	16
43	Pharmacokinetics of Agelastatin A in the central nervous system. <i>MedChemComm</i> , 2012, 3, 233-237.	3.4	15
44	A novel splice site variant in <i>CYP11A1</i> in <i>trans</i> with the p.E314K variant in a male patient with congenital adrenal insufficiency. <i>Molecular Genetics & Genomic Medicine</i> , 2017, 5, 781-787.	1.2	14
45	Attacking COVID-19 Progression Using Multi-Drug Therapy for Synergetic Target Engagement. <i>Biomolecules</i> , 2021, 11, 787.	4.0	14
46	Design and Evaluation of PEGylated Liposomal Formulation of a Novel Multikinase Inhibitor for Enhanced Chemosensitivity and Inhibition of Metastatic Pancreatic Ductal Adenocarcinoma. <i>Bioconjugate Chemistry</i> , 2019, 30, 2703-2713.	3.6	12
47	Molecular Dynamics Simulations Suggest a Non-Doublet Decoding Model of +1 Frameshifting by tRNA ^{Ser3} . <i>Biomolecules</i> , 2019, 9, 745.	4.0	11
48	Functional Analysis of the SIM1 Variant p.G715V in 2 Patients With Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 355-361.	3.6	11
49	Endotheliitis, endothelin, and endothelin receptor blockers in COVID-19. <i>Medical Hypotheses</i> , 2021, 150, 110564.	1.5	11
50	Integrative data fusion for comprehensive assessment of a novel <i>CHEK2</i> variant using combined genomics, imaging, and functional structural assessments via protein informatics. <i>Molecular Omics</i> , 2019, 15, 59-66.	2.8	9
51	Pharmacokinetics of bendamustine in the central nervous system: chemoinformatic screening followed by validation in a murine model. <i>MedChemComm</i> , 2012, 3, 1526.	3.4	8
52	Protein informatics combined with multiple data sources enriches the clinical characterization of novel <i>TRPV4</i> variant causing an intermediate skeletal dysplasia. <i>Molecular Genetics & Genomic Medicine</i> , 2019, 7, e566.	1.2	8
53	Protein modeling and clinical description of a novel <i>GLB1</i> deletion causing <i>GM2</i> gangliosidosis type <i>II</i> . <i>Molecular Genetics & Genomic Medicine</i> , 2018, 6, 1229-1235.	1.2	6
54	Protein molecular modeling shows residue T599 is critical to wild-type function of POLG and description of a novel variant associated with the SANDO phenotype. <i>Human Genome Variation</i> , 2018, 5, 18016.	0.7	6

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55	TRIO gene segregation in a family with cerebellar ataxia. <i>Neurologia I Neurochirurgia Polska</i> , 2018, 52, 743-749.	1.2	5
56	Whole Exome Sequencing and Molecular Modeling of a Missense Variant in <i>TNFAIP3</i> That Segregates with Disease in a Family with Chronic Urticaria and Angioedema. <i>Case Reports in Genetics</i> , 2018, 2018, 1-6.	0.2	5
57	Personalized molecular modeling for pinpointing associations of protein dysfunction and variants associated with hereditary cancer syndromes. <i>Molecular Genetics & Genomic Medicine</i> , 2018, 6, 805-810.	1.2	4
58	Genomic Observations of a Rare/Pathogenic SMAD3 Variant in Loey's Dietz Syndrome 3 Confirmed by Protein Informatics and Structural Investigations. <i>Medicina (Lithuania)</i> , 2019, 55, 137.	2.0	4
59	Structural And Computational Perspectives of Selectively Targeting Mutant Proteins. <i>Current Drug Discovery Technologies</i> , 2021, 18, 365-378.	1.2	4
60	Platforms for Personalized Polytherapeutics Discovery in COVID-19. <i>Journal of Molecular Biology</i> , 2021, 433, 166945.	4.2	4
61	Role of PLEXIND1/TGF β 2 Signaling Axis in Pancreatic Ductal Adenocarcinoma Progression Correlates with the Mutational Status of KRAS. <i>Cancers</i> , 2021, 13, 4048.	3.7	4
62	Three-tier stratification for CNS COVID-19 to help decide which patients should undergo lumbar puncture with CSF analysis: A case report and literature review. <i>Romanian Journal of Internal Medicine = Revue Roumaine De Medecine Interne</i> , 2020, 59, 88-92.	0.6	4
63	An Induced-Fit Docking Method for Refining Drug-Receptor Interactions Derived from Maxwellian-Assessor Nanoprobes (Quantum Mechanics-Based Criterion Assessment) Placed Over Adaptive Intervals of Molecular Dynamics Sampling. <i>Biophysical Journal</i> , 2012, 102, 171a-172a.	0.5	3
64	An activating germline IDH1 variant associated with a tumor entity characterized by unilateral and bilateral chondrosarcoma of the mastoid. <i>Human Genetics and Genomics Advances</i> , 2020, 1, 100006.	1.7	3
65	Structural Models for the Dynamic Effects of Loss-of-Function Variants in the Human SIM1 Protein Transcriptional Activation Domain. <i>Biomolecules</i> , 2020, 10, 1314.	4.0	3
66	Reply: Heterozygous PINK1 p.G411S in rapid eye movement sleep behaviour disorder. <i>Brain</i> , 2017, 140, e33-e33.	7.6	2
67	Examination of Molecular Effects of MYLK Deletion in a Patient with Extensive Aortic, Carotid, and Abdominal Dissections That Underlie the Genetic Dysfunction. <i>Case Reports in Medicine</i> , 2020, 2020, 1-7.	0.7	2
68	Characterization of a Pathogenic Variant in the ABCD1 Gene Through Protein Molecular Modeling. <i>Case Reports in Genetics</i> , 2020, 2020, 1-7.	0.2	2
69	Clinical description & molecular modeling of novel MAX pathogenic variant causing pheochromocytoma in family, supports paternal parent-of-origin effect. <i>Cancer Genetics</i> , 2021, 252-253, 107-110.	0.4	2
70	A novel, germline, deactivating CBL variant p.L493F alters domain orientation and is associated with multiple childhood cancers. <i>Cancer Genetics</i> , 2021, 254-255, 18-24.	0.4	2
71	A Virtual Screening Platform Identifies Chloroethylglucosylamine A as a Potential Ribosomal Inhibitor. <i>Biomolecules</i> , 2020, 10, 1407.	4.0	1
72	Genomics combined with a protein informatics platform to assess a novel pathogenic variant c.1024 A>G (p.K342E) in OPA1 in a patient with autosomal dominant optic atrophy. <i>Ophthalmic Genetics</i> , 2020, 41, 563-569.	1.2	1

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73	The PINK1 p.I368N Mutation Affects Protein Stability and Kinase Activity with Its Structural Change. Juntendo Medical Journal, 2018, 64, 17-30.	0.1	0
74	Inhibition of PC1/3 and PC2 by 2,5-dideoxystreptamine derivatives. FASEB Journal, 2012, 26, 557.2.	0.5	0
75	Parkin. , 2016, , 1-9.		0
76	Parkin. , 2017, , 1-9.		0
77	Parkin. , 2018, , 3786-3794.		0
78	Structural Basis for Improved Proteolytic Stability and Target Affinity of Disulfide engineered Human Kunitz-type Serine Protease Inhibitors. FASEB Journal, 2019, 33, 472.1.	0.5	0
79	Molecular Modeling and Phenotypic Description of a Patient with a Novel Exonic Deletion of GALNS with Resultant Morquio Syndrome with Two Successful Pregnancies. Molecular Syndromology, 0, , 1-8.	0.8	0