Dustin J Maly

List of Publications by Citations

101 papers	3,149 citations	31 h-index	53 g-index
110 ext. papers	3,746 ext. citations	7.8 avg, IF	5.01 L-index

#	Paper	IF	Citations
101	Allosteric inhibition of the IRE1α RNase preserves cell viability and function during endoplasmic reticulum stress. *Cell*, **2014**, 158, 534-48	56.2	297
100	Druggable sensors of the unfolded protein response. *Nature Chemical Biology*, **2014**, 10, 892-901	11.7	153
99	Divergent allosteric control of the IRE1α endoribonuclease using kinase inhibitors. *Nature Chemical Biology*, **2012**, 8, 982-9	11.7	147
98	Toxoplasma gondii calcium-dependent protein kinase 1 is a target for selective kinase inhibitors. *Nature Structural and Molecular Biology*, **2010**, 17, 602-7	17.6	144
97	Equally potent inhibition of c-Src and Abl by compounds that recognize inactive kinase conformations. *Cancer Research*, **2009**, 69, 2384-92	10.1	117
96	Discovery of Potent and Selective Inhibitors of Calcium-Dependent Protein Kinase 1 (CDPK1) from C. parvum and T. gondii. *ACS Medicinal Chemistry Letters*, **2010**, 1, 331-335	4.3	110
95	Targeting ABL-IRE1α Signaling Spares ER-Stressed Pancreatic β Cells to Reverse Autoimmune Diabetes. *Cell Metabolism*, **2017**, 25, 883-897.e8	24.6	107
94	Development of Toxoplasma gondii calcium-dependent protein kinase 1 (TgCDPK1) inhibitors with potent anti-toxoplasma activity. *Journal of Medicinal Chemistry*, **2012**, 55, 2416-26	8.3	88
93	Transmission of malaria to mosquitoes blocked by bumped kinase inhibitors. *Journal of Clinical Investigation*, **2012**, 122, 2301-5	15.9	81
92	A specific inhibitor of PfCDPK4 blocks malaria transmission: chemical-genetic validation. *Journal of Infectious Diseases*, **2014**, 209, 275-84	7	75
91	Development of an Orally Available and Central Nervous System (CNS) Penetrant Toxoplasma gondii Calcium-Dependent Protein Kinase 1 (TgCDPK1) Inhibitor with Minimal Human Ether-a-go-go-Related Gene (hERG) Activity for the Treatment of Toxoplasmosis. *Journal of Medicinal Chemistry*, **2016**, 59, 6531-46	8.3	68
90	Sequence determinants of a specific inactive protein kinase conformation. *Chemistry and Biology*, **2013**, 20, 806-15		62
89	Rapidly inducible Cas9 and DSB-ddPCR to probe editing kinetics. *Nature Methods*, **2017**, 14, 891-896	21.6	56
88	Bumped kinase inhibitor 1294 treats established Toxoplasma gondii infection. *Antimicrobial Agents and Chemotherapy*, **2014**, 58, 3547-9	5.9	56
87	Multiple determinants for selective inhibition of apicomplexan calcium-dependent protein kinase CDPK1. *Journal of Medicinal Chemistry*, **2012**, 55, 2803-10	8.3	56
86	A novel calcium-dependent protein kinase inhibitor as a lead compound for treating cryptosporidiosis. *Journal of Infectious Diseases*, **2013**, 208, 1342-8	7	55
85	Structural and Functional Analysis of the Allosteric Inhibition of IRE1α with ATP-Competitive Ligands. *ACS Chemical Biology*, **2016**, 11, 2195-205	4.9	50

84	Active site profiling reveals coupling between domains in SRC-family kinases. *Nature Chemical Biology*, **2013**, 9, 43-50	11.7	50
83	Neospora caninum calcium-dependent protein kinase 1 is an effective drug target for neosporosis therapy. *PLoS ONE*, **2014**, 9, e92929	3.7	48
82	In Vitro and In Vivo Effects of the Bumped Kinase Inhibitor 1294 in the Related Cyst-Forming Apicomplexans Toxoplasma gondii and Neospora caninum. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 6361-74	5.9	47
81	Development of potent and selective Plasmodium falciparum calcium-dependent protein kinase 4 (PfCDPK4) inhibitors that block the transmission of malaria to mosquitoes. *European Journal of Medicinal Chemistry*, **2014**, 74, 562-73	6.8	44
80	Novel Bumped Kinase Inhibitors Are Safe and Effective Therapeutics in the Calf Clinical Model for Cryptosporidiosis. *Journal of Infectious Diseases*, **2016**, 214, 1856-1864	7	43
79	Bumped-Kinase Inhibitors for Cryptosporidiosis Therapy. *Journal of Infectious Diseases*, **2017**, 215, 1275-1284	7	42
78	Potent and selective inhibitors of CDPK1 from and based on a 5-aminopyrazole-4-carboxamide scaffold. *ACS Medicinal Chemistry Letters*, **2014**, 5, 40-44	4.3	42
77	Bivalent inhibitors of protein kinases. *Critical Reviews in Biochemistry and Molecular Biology*, **2014**, 49, 102-15	8.7	42
76	Affinity-based probes based on type II kinase inhibitors. *Journal of the American Chemical Society*, **2012**, 134, 19017-25	16.4	41
75	The gatekeeper residue and beyond: homologous calcium-dependent protein kinases as drug development targets for veterinarian Apicomplexa parasites. *Parasitology*, **2014**, 141, 1499-1509	2.7	40
74	Extended-spectrum antiprotozoal bumped kinase inhibitors: A review. *Experimental Parasitology*, **2017**, 180, 71-83	2.1	39
73	Necessity of Bumped Kinase Inhibitor Gastrointestinal Exposure in Treating Cryptosporidium Infection. *Journal of Infectious Diseases*, **2017**, 216, 55-63	7	34
72	Biochemical Screening of Five Protein Kinases from Plasmodium falciparum against 14,000 Cell-Active Compounds. *PLoS ONE*, **2016**, 11, e0149996	3.7	34
71	Affinity reagents that target a specific inactive form of protein kinases. *Chemistry and Biology*, **2010**, 17, 195-206		31
70	Development of a murine vertical transmission model for Toxoplasma gondii oocyst infection and studies on the efficacy of bumped kinase inhibitor (BKI)-1294 and the naphthoquinone buparvaquone against congenital toxoplasmosis. *Journal of Antimicrobial Chemotherapy*, **2017**, 72, 2334-2341	5.1	30
69	A chemical genetic method for generating bivalent inhibitors of protein kinases. *Journal of the American Chemical Society*, **2009**, 131, 6686-8	16.4	30
68	Small molecule inhibition of IRE1 kinase/RNase has anti-fibrotic effects in the lung. *PLoS ONE*, **2019**, 14, e0209824	3.7	30
67	Intracellular delivery of bioactive molecules using light-addressable nanocapsules. *ACS Nano*, **2010**, 4, 7603-11	16.7	29

66	SAR Studies of 5-Aminopyrazole-4-carboxamide Analogues as Potent and Selective Inhibitors of CDPK1. *ACS Medicinal Chemistry Letters*, **2015**, 6, 1184-1189	4.3	27
65	Kinobead and Single-Shot LC-MS Profiling Identifies Selective PKD Inhibitors. *Journal of Proteome Research*, **2017**, 16, 1216-1227	5.6	25
64	Reduced Activity of Mutant Calcium-Dependent Protein Kinase 1 Is Compensated in Plasmodium falciparum through the Action of Protein Kinase G. *MBio*, **2016**, 7,	7.8	25
63	Conformation-selective ATP-competitive inhibitors control regulatory interactions and noncatalytic functions of mitogen-activated protein kinases. *Chemistry and Biology*, **2014**, 21, 628-35		24
62	Conformation-selective inhibitors reveal differences in the activation and phosphate-binding loops of the tyrosine kinases Abl and Src. *ACS Chemical Biology*, **2013**, 8, 2734-43	4.9	24
61	Advances in bumped kinase inhibitors for human and animal therapy for cryptosporidiosis. *International Journal for Parasitology*, **2017**, 47, 753-763	4.3	22
60	Targeting diverse signaling interaction sites allows the rapid generation of bivalent kinase inhibitors. *ACS Chemical Biology*, **2012**, 7, 487-95	4.9	22
59	Multi-input chemical control of protein dimerization for programming graded cellular responses. *Nature Biotechnology*, **2019**, 37, 1209-1216	44.5	21
58	A small molecule-regulated guanine nucleotide exchange factor. *Journal of the American Chemical Society*, **2010**, 132, 938-40	16.4	21
57	Bumped Kinase Inhibitors as therapy for apicomplexan parasitic diseases: lessons learned. *International Journal for Parasitology*, **2020**, 50, 413-422	4.3	21
56	A Combined Approach Reveals a Regulatory Mechanism Coupling Src Kinase Activity, Localization, and Phosphotransferase-Independent Functions. *Molecular Cell*, **2019**, 74, 393-408.e20	17.6	20
55	Radiotherapy followed by aurora kinase inhibition targets tumor-propagating cells in human glioblastoma. *Molecular Cancer Therapeutics*, **2015**, 14, 419-28	6.1	20
54	Suppression of unwanted CRISPR-Cas9 editing by co-administration of catalytically inactivating truncated guide RNAs. *Nature Communications*, **2020**, 11, 2697	17.4	19
53	SH2-catalytic domain linker heterogeneity influences allosteric coupling across the SFK family. *Biochemistry*, **2014**, 53, 6910-23	3.2	19
52	Divergent modulation of Src-family kinase regulatory interactions with ATP-competitive inhibitors. *ACS Chemical Biology*, **2014**, 9, 1894-905	4.9	19
51	Selective inhibition of Sarcocystis neurona calcium-dependent protein kinase 1 for equine protozoal myeloencephalitis therapy. *International Journal for Parasitology*, **2016**, 46, 871-880	4.3	17
50	Rapid profiling of protein kinase inhibitors by quantitative proteomics. *MedChemComm*, **2014**, 5, 363-369	3	17
49	Subcellular drug targeting illuminates local kinase action. *ELife*, **2019**, 8,	8.9	17

48	Parallel Signaling through IRE1 and PERK Regulates Pancreatic Neuroendocrine Tumor Growth and Survival. *Cancer Research*, **2019**, 79, 6190-6203	10.1	17
47	Two Novel Calcium-Dependent Protein Kinase 1 Inhibitors Interfere with Vertical Transmission in Mice Infected with Neospora caninum Tachyzoites. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	16
46	Bumped kinase inhibitor prohibits egression in Babesia bovis. *Veterinary Parasitology*, **2016**, 215, 22-8	2.8	16
45	In vitro efficacy of bumped kinase inhibitors against Besnoitia besnoiti tachyzoites. *International Journal for Parasitology*, **2017**, 47, 811-821	4.3	16
44	Chemical genomic and proteomic methods for determining kinase inhibitor selectivity. *Combinatorial Chemistry and High Throughput Screening*, **2007**, 10, 652-66	1.3	16
43	A computationally engineered RAS rheostat reveals RAS-ERK signaling dynamics. *Nature Chemical Biology*, **2017**, 13, 119-126	11.7	15
42	A hexylchloride-based catch-and-release system for chemical proteomic applications. *ACS Chemical Biology*, **2013**, 8, 691-9	4.9	15
41	5-Aminopyrazole-4-Carboxamide-Based Compounds Prevent the Growth of Cryptosporidium parvum. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	14
40	5-Aminopyrazole-4-carboxamide analogues are selective inhibitors of Plasmodium falciparum microgametocyte exflagellation and potential malaria transmission blocking agents. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 5487-5491	2.9	14
39	Conversion of a Single Polypharmacological Agent into Selective Bivalent Inhibitors of Intracellular Kinase Activity. *ACS Chemical Biology*, **2016**, 11, 121-31	4.9	12
38	Bivalent inhibitors of the tyrosine kinases ABL and SRC: determinants of potency and selectivity. *Molecular BioSystems*, **2011**, 7, 447-56		12
37	Toxoplasma Calcium-Dependent Protein Kinase 1 Inhibitors: Probing Activity and Resistance Using Cellular Thermal Shift Assays. *Antimicrobial Agents and Chemotherapy*, **2018**, 62,	5.9	11
36	Targeting Dynamic ATP-Binding Site Features Allows Discrimination between Highly Homologous Protein Kinases. *ACS Chemical Biology*, **2019**, 14, 1249-1259	4.9	9
35	Kinome chemoproteomics characterization of pyrrolo[3,4-c]pyrazoles as potent and selective inhibitors of glycogen synthase kinase 3. *Molecular Omics*, **2018**, 14, 26-36	4.4	9
34	A Chemically Disrupted Proximity System for Controlling Dynamic Cellular Processes. *Journal of the American Chemical Society*, **2019**, 141, 3352-3355	16.4	8
33	Rheostatic Control of Cas9-Mediated DNA Double Strand Break (DSB) Generation and Genome Editing. *ACS Chemical Biology*, **2018**, 13, 438-442	4.9	8
32	Development of a Chemical Toolset for Studying the Paralog-Specific Function of IRE1. *ACS Chemical Biology*, **2019**, 14, 2595-2605	4.9	8
31	Pharmacoproteomics Identifies Kinase Pathways that Drive the Epithelial-Mesenchymal Transition and Drug Resistance in Hepatocellular Carcinoma. *Cell Systems*, **2020**, 11, 196-207.e7	10.6	8

30	Pharmacokinetics and In Vivo Efficacy of Pyrazolopyrimidine, Pyrrolopyrimidine, and 5-Aminopyrazole-4-Carboxamide Bumped Kinase Inhibitors against Toxoplasmosis. *Journal of Infectious Diseases*, **2019**, 219, 1464-1473	7	8
29	Allosteric Modulation of JNK Docking Site Interactions with ATP-Competitive Inhibitors. *Biochemistry*, **2018**, 57, 5897-5909	3.2	8
28	Chemoproteomic Method for Profiling Inhibitor-Bound Kinase Complexes. *Journal of the American Chemical Society*, **2019**, 141, 11912-11922	16.4	7
27	Bumped kinase inhibitor 1369 is effective against Cystoisospora suis in vivo and in vitro. *International Journal for Parasitology: Drugs and Drug Resistance*, **2019**, 10, 9-19	4	7
26	Design, synthesis and characterization of "clickable" 4-anilinoquinazoline kinase inhibitors. *Molecular BioSystems*, **2008**, 4, 542-50		7
25	P-Glycoprotein-Mediated Efflux Reduces the In Vivo Efficacy of a Therapeutic Targeting the Gastrointestinal Parasite Cryptosporidium. *Journal of Infectious Diseases*, **2019**, 220, 1188-1198	7	6
24	Label transfer reagents to probe p38 MAPK binding partners. *ChemBioChem*, **2013**, 14, 209-16	3.8	6
23	How ATP-Competitive Inhibitors Allosterically Modulate Tyrosine Kinases That Contain a Src-like Regulatory Architecture. *ACS Chemical Biology*, **2020**, 15, 2005-2016	4.9	5
22	7 H-Pyrrolo[2,3- d]pyrimidin-4-amine-Based Inhibitors of Calcium-Dependent Protein Kinase 1 Have Distinct Inhibitory and Oral Pharmacokinetic Characteristics Compared with 1 H-Pyrazolo[3,4-d]pyrimidin-4-amine-Based Inhibitors. *ACS Infectious Diseases*, **2018**, 4, 516-522	5.5	5
21	One health therapeutics: Target-Based drug development for cryptosporidiosis and other apicomplexa diseases. *Veterinary Parasitology*, **2021**, 289, 109336	2.8	5
20	Proteomic Profiling of Protein Kinase Inhibitor Targets by Mass Spectrometry. *Methods in Molecular Biology*, **2017**, 1636, 105-117	1.4	4
19	A novel protein kinase is essential in bloodstream Trypanosoma brucei. *International Journal for Parasitology*, **2016**, 46, 479-83	4.3	4
18	In vitro growth inhibition of Theileria equi by bumped kinase inhibitors. *Veterinary Parasitology*, **2018**, 251, 90-94	2.8	3
17	Biochemical and pharmacological profiling of the pro-survival protein Bcl-xL. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 4951-5	2.9	3
16	"Examining RAS pathway rewiring with a chemically inducible activator of RAS". *Small GTPases*, **2020**, 11, 413-420	2.7	3
15	Parallel Chemoselective Profiling for Mapping Protein Structure. *Cell Chemical Biology*, **2020**, 27, 1084-1096.e4	8.2	2
14	Kinobead/LC-MS Phosphokinome Profiling Enables Rapid Analyses of Kinase-Dependent Cell Signaling Networks. *Journal of Proteome Research*, **2020**, 19, 1235-1247	5.6	2
13	Exploring the intermembrane space. *ACS Chemical Biology*, **2007**, 2, 213-6	4.9	2

List of Publications

12	Allosteric Modulation of Src Family Kinases with ATP-Competitive Inhibitors. *Methods in Molecular Biology*, **2017**, 1636, 79-89	1.4	2
11	Protocol for rapidly inducible Cas9 and DSB-ddPCR. *Protocol Exchange*,		2
10	Comparative assessment of the effects of bumped kinase inhibitors on early zebrafish embryo development and pregnancy in mice. *International Journal of Antimicrobial Agents*, **2020**, 56, 106099	14.3	2
9	Calcium-Dependent Protein Kinases of Apicomplexan Parasites as Drug Targets **2013**, 293-316		1
8	Profiling the Dual Enzymatic Activities of the Serine/Threonine Kinase IRE1 *Methods in Molecular Biology*, **2017**, 1513, 233-242	1.4	1
7	Pyrrolopyrimidine Bumped Kinase Inhibitors for the Treatment of Cryptosporidiosis. *ACS Infectious Diseases*, **2021**, 7, 1200-1207	5.5	1
6	ATP-competitive partial antagonists of the IRE1 RNase segregate outputs of the UPR. *Nature Chemical Biology*, **2021**, 17, 1148-1156	11.7	1
5	Temporal and rheostatic control of genome editing with a chemically-inducible Cas9. *Methods in Enzymology*, **2020**, 633, 119-141	1.7	0
4	The Right Tool for the Job: A Chemical and Genetic Toolkit for Interrogating DCLK1 Function. *Cell Chemical Biology*, **2020**, 27, 1221-1223	8.2	0
3	Label Transfer Reagents for the Study of Protein Kinase Complexes. *FASEB Journal*, **2012**, 26, 755.3	0.9	
2	Investigating inactive conformations of protein kinases. *FASEB Journal*, **2013**, 27, 1042.1	0.9	
1	A chemically-controlled system for activating RAS GTPases. *Methods in Enzymology*, **2020**, 633, 103-117	1.7	