Thomas LundbÃ¤ck

List of Publications by Year
in descending order

67 papers	3,552 citations	172207 29 h-index	138251 58 g-index
77 all docs	77 docs citations	77 times ranked	5973 citing authors

#	Article	IF	Citations
1	The cellular thermal shift assay for evaluating drug target interactions in cells. Nature Protocols, 2014, 9, 2100-2122.	5.5	900
2	MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool. Nature, 2014, 508, 215-221.	13.7	419
3	Solution structure and DNA-binding properties of a thermostable protein from the archaeon Sulfolobus solfataricus. Nature Structural Biology, 1994, 1, 808-819.	9.7	162
4	CETSA screening identifies known and novel thymidylate synthase inhibitors and slow intracellular activation of 5-fluorouracil. Nature Communications, 2016, 7, 11040.	5.8	126
5	Oligomerization of the chromatin-structuring protein H-NS. Molecular Microbiology, 2000, 36, 962-972.	1.2	112
6	Targeting SAMHD1 with the Vpx protein to improve cytarabine therapy for hematological malignancies. Nature Medicine, 2017, 23, 256-263.	15.2	102
7	N-Benzyl-indolo carboxylic acids: Design and synthesis of potent and selective adipocyte fatty-acid binding protein (A-FABP) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1745-1748.	1.0	96
8	Thermodynamic characterization of non-sequence-specific DNA-binding by the Sso7d protein from Sulfolobus solfataricus. Journal of Molecular Biology, 1998, 276, 775-786.	2.0	88
9	Sequence-specific DNA-binding dominated by dehydration.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 4754-4759.	3.3	74
10	Prediction of intracellular exposure bridges the gap between target- and cell-based drug discovery. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6231-E6239.	3.3	74
11	Discovery of inhibitors of human adipocyte fatty acid-binding protein, a potential type 2 diabetes target. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 4445-4448.	1.0	71
12	Substituted benzylamino-6-(trifluoromethyl)pyrimidin-4(1H)-ones: a novel class of selective human A-FABP inhibitors. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 4449-4452.	1.0	61
13	Thermodynamics of sequence-specific protein-DNA interactions. Biophysical Chemistry, 1996, 62, 121-139.	1.5	56
14	Targeted NUDT5 inhibitors block hormone signaling in breast cancer cells. Nature Communications, 2018, 9, 250.	5.8	56
15	Thermodynamics of the glucocorticoid receptor-DNA interaction: Binding of wild-type GR DBD to different response elements. Biochemistry, 1993, 32, 5074-5082.	1.2	55
16	CETSA beyond Soluble Targets: a Broad Application to Multipass Transmembrane Proteins. ACS Chemical Biology, 2019, 14, 1913-1920.	1.6	55
17	Structure-Based Screening As Applied to Human FABP4:Â A Highly Efficient Alternative to HTS for Hit Generation. Journal of the American Chemical Society, 2002, 124, 11874-11880.	6.6	52
18	Structureâ€“Activity Relationships of Synthetic Cordycepin Analogues as Experimental Therapeutics for African Trypanosomiasis. Journal of Medicinal Chemistry, 2013, 56, 9861-9873.	2.9	51

#	Article	IF	Citations
19	Oct-1 POU and octamer DNA co-operate to recognise the Bob-1 transcription co-activator via induced folding. Journal of Molecular Biology, 1999, 288, 941-952.	2.0	48
20	Inhibitors of the Cysteine Synthase CysM with Antibacterial Potency against Dormant Mycobacterium tuberculosis. Journal of Medicinal Chemistry, 2016, 59, 6848-6859.	2.9	45
21	Microwave Heated Flow Synthesis of Spiro-oxindole Dihydroquinazolinone Based IRAP Inhibitors. Organic Process Research and Development, 2014, 18, 1582-1588.	1.3	43
22	Salt Dependence of the Free Energy, Enthalpy, and Entropy of Nonsequence Specific DNA Binding. The Journal of Physical Chemistry, 1996, 100, 17690-17695.	2.9	42
23	CETSA: a target engagement assay with potential to transform drug discovery. Future Medicinal Chemistry, 2015, 7, 975-978.	1.1	40
24	Discovery of the First Potent and Selective Inhibitors of Human dCTP Pyrophosphatase 1. Journal of Medicinal Chemistry, 2016, 59, 1140-1148.	2.9	40
25	On the Nature of Solvent Effects on Redox Properties. Journal of Physical Chemistry A, 2004, 108, 4805-4811.	1.1	39
26	Thermodynamics of sequence-specific glucocorticoid receptor-DNA interactions. Biochemistry, 1994, 33, 5955-5965.	1.2	37
27	Characterization of Sequence-Specific DNA Binding by the Transcription Factor Oct-1â€. Biochemistry, 2000, 39, 7570-7579.	1.2	36
28	Binding to and Inhibition of Insulin-Regulated Aminopeptidase by Macrocyclic Disulfides Enhances Spine Density. Molecular Pharmacology, 2016, 89, 413-424.	1.0	35
29	Ribonucleotide reductase inhibitors suppress <scp>SAMHD</scp> 1 araâ€•<scp>CTP</scp> ase activity enhancing cytarabine efficacy. EMBO Molecular Medicine, 2020, 12, e10419.	3.3	35
30	Immunomodulatory activity of commonly used drugs on Fc-receptor-mediated human natural killer cell activation. Cancer Immunology, Immunotherapy, 2014, 63, 627-641.	2.0	33
31	Perspective on CETSA Literature: Toward More Quantitative Data Interpretation. SLAS Discovery, 2020, 25, 118-126.	1.4	30
32	Aryl Sulfonamide Inhibitors of Insulin-Regulated Aminopeptidase Enhance Spine Density in Primary Hippocampal Neuron Cultures. ACS Chemical Neuroscience, 2016, 7, 1383-1392.	1.7	27
33	A drug screening assay on cancer cells chronically adapted to acidosis. Cancer Cell International, 2018, 18, 147.	1.8	27
34	dUTPase inhibition augments replication defects of 5-Fluorouracil. Oncotarget, 2017, 8, 23713-23726.	0.8	27
35	Early Perspective. Journal of Biomolecular Screening, 2016, 21, 1019-1033.	2.6	24
36	In Situ Target Engagement Studies in Adherent Cells. ACS Chemical Biology, 2018, 13, 942-950.	1.6	23

#	Article	IF	Citations
37	Structural Basis for the Specificity of Human NUDT16 and Its Regulation by Inosine Monophosphate. PLoS ONE, 2015, 10, e0131507.	1.1	22
38	A Fully Integrated Assay Panel for Early Drug Metabolism and Pharmacokinetics Profiling. Assay and Drug Development Technologies, 2020, 18, 157-179.	0.6	22
39	Inhibition of Insulinâ€Regulated Aminopeptidase (IRAP) by Arylsulfonamides. ChemistryOpen, 2014, 3, 256-263.	0.9	20
40	Piperazin-1-ylpyridazine Derivatives Are a Novel Class of Human dCTP Pyrophosphatase 1 Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 4279-4292.	2.9	19
41	Structure and Dynamics of the Glucocorticoid Receptor DNA-Binding Domain:â€‰ Comparison of Wild Type and a Mutant with Altered Specificity. Biochemistry, 1997, 36, 11188-11197.	1.2	18
42	Sequence-Specific DNA Binding by the Glucocorticoid Receptor DNA-Binding Domain Is Linked to a Salt-Dependent Histidine Protonationâ€. Biochemistry, 2000, 39, 8909-8916.	1.2	17
43	Quantitative Interpretation of Intracellular Drug Binding and Kinetics Using the Cellular Thermal Shift Assay. Biochemistry, 2018, 57, 6715-6725.	1.2	16
44	In silico Druggability Assessment of the NUDIX Hydrolase Protein Family as a Workflow for Target Prioritization. Frontiers in Chemistry, 2020, 8, 443.	1.8	16
45	Identification of Triazolothiadiazoles as Potent Inhibitors of the dCTP Pyrophosphatase 1. Journal of Medicinal Chemistry, 2017, 60, 2148-2154.	2.9	14
46	Development of a chemical probe against NUDT15. Nature Chemical Biology, 2020, 16, 1120-1128.	3.9	14
47	Identification of Drug-Like Inhibitors of Insulin-Regulated Aminopeptidase Through Small-Molecule Screening. Assay and Drug Development Technologies, 2016, 14, 180-193.	0.6	13
48	Chemical Instability and Promiscuity of Arylmethylidenepyrazolinone-Based MDMX Inhibitors. ACS Chemical Biology, 2018, 13, 2849-2854.	1.6	12
49	A FabG inhibitor targeting an allosteric binding site inhibits several orthologs from Gram-negative ESKAPE pathogens. Bioorganic and Medicinal Chemistry, 2021, 30, 115898.	1.4	12
50	In Vitro and In Vivo Activities of 2-Aminopyrazines and 2-Aminopyridines in Experimental Models of Human African Trypanosomiasis. Antimicrobial Agents and Chemotherapy, 2013, 57, 1012-1018.	1.4	10
51	Diamond Blackfan anemia is mediated by hyperactive Nemo-like kinase. Nature Communications, 2020, 11, 3344.	5.8	10
52	Virtual Screening for Transition State Analogue Inhibitors of IRAP Based on Quantum Mechanically Derived Reaction Coordinates. Journal of Chemical Information and Modeling, 2015, 55, 1984-1993.	2.5	9
53	Identification of inhibitors of Tartrateâ€resistant acid phosphatase (<scp>TRAP</scp>/<scp>ACP</scp>5) activity by smallâ€molecule screening. Chemical Biology and Drug Design, 2018, 92, 1255-1271.	1.5	9
54	A Phenotypic Screening Assay Identifies Modulators of Diamond Blackfan Anemia. SLAS Discovery, 2019, 24, 304-313.	1.4	9

#	Article	IF	Citations
55	Design and development of a photoswitchable DFG-out kinase inhibitor. Chemical Communications, 2021, 57, 10043-10046.	2.2	9
56	Synthesis, Evaluation and Proposed Binding Pose of Substituted Spiroâ€Oxindole Dihydroquinazolinones as IRAP Inhibitors. ChemistryOpen, 2020, 9, 325-337.	0.9	7
57	Design and development of photoswitchable DFG-Out RET kinase inhibitors. European Journal of Medicinal Chemistry, 2022, 234, 114226.	2.6	7
58	A novel assay of cellular stearoyl-CoA desaturase activity of primary rat hepatocytes by HPLC. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 2427-2432.	1.2	6
59	Diverse heterocyclic scaffolds as dCTP pyrophosphatase 1 inhibitors. Part 2: Pyridone- and pyrimidinone-derived systems. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3219-3225.	1.0	4
60	Inhibition of the ubiquitin-proteasome system by an NQO1-activatable compound. Cell Death and Disease, 2021, 12, 914.	2.7	3
61	Controversies in ASSAY and Drug Development Technologies: A Focus on Assessing Irreproducibility. Assay and Drug Development Technologies, 2014, 12, 443-451.	0.6	1
62	Abstract 5509: A drug-screening model to identify compounds active in cells under metabolic stress. , 2015, , .		1
63	Small Molecule Screens Identify CDK8-Inhibitors As Candidate Diamond-Blackfan Anemia Drugs. Blood, 2018, 132, 753-753.	0.6	1
64	High-throughput screening for small chemical inhibitors: Investigation and intervention in tartrate-resistant acid phosphataseâ€™s role during cancer progression. European Journal of Cancer, 2016, 69, S77-S78.	1.3	0
65	Letter to the Editor: Implementation of Acoustic Dispensing and 384-Well Based Workflows to Improve Assay Capacity and Reduce Compound and Solvent Use in Early Drug Metabolism and Pharmacokinetics Profiling. Assay and Drug Development Technologies, 2021, 19, 410-411.	0.6	0
66	A Robust Screening Assay For Diamond Blackfan Anemia Candidate Drugs. Blood, 2013, 122, 2472-2472.	0.6	0
67	Inhibition of the Ubiquitin-Proteasome System by a Bioactivatable Prodrug. SSRN Electronic Journal, 0, , .	0.4	0