

The Cellular Thermal Shift Assay: A Novel Biophysical Approach to Protein-Ligand Engagement and Mechanistic Biomarker Studies

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Small-Molecule Target Engagement in Cells. <i>Cell Chemical Biology</i> , 2016, 23, 435-441.	2.5	93
2	Chemical Biology Approaches for Characterization of Epigenetic Regulators. <i>Methods in Enzymology</i> , 2016, 574, 79-103.	0.4	5
3	Thermal profiling reveals phenylalanine hydroxylase as an off-target of panobinostat. <i>Nature Chemical Biology</i> , 2016, 12, 908-910.	3.9	189
4	Biophysics in drug discovery: impact, challenges and opportunities. <i>Nature Reviews Drug Discovery</i> , 2016, 15, 679-698.	21.5	285
5	Next-generation phenotypic screening. <i>Future Medicinal Chemistry</i> , 2016, 8, 1331-1347.	1.1	39
6	Label-free technologies for target identification and validation. <i>MedChemComm</i> , 2016, 7, 769-777.	3.5	9
7	Introduction to the Theme "Cancer Pharmacology". <i>Annual Review of Pharmacology and Toxicology</i> , 2016, 56, 19-22.	4.2	0
8	Identification of potential targets for an anticoagulant pectin. <i>Journal of Proteomics</i> , 2017, 151, 243-250.	1.2	2
9	Targeted protein degradation by PROTACs. , 2017, 174, 138-144.		359
10	Exploiting the p53 Pathway for Therapy. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a026310.	2.9	41
11	Target Engagement Measures in Preclinical Drug Discovery: Theory, Methods, and Case Studies. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2017, , 41-80.	0.2	3
12	Pronounced anti-proliferative activity and tumor cell selectivity of 5-alkyl-2-amino-3-methylcarboxylate thiophenes. <i>European Journal of Medicinal Chemistry</i> , 2017, 132, 219-235.	2.6	25
13	Using Chemoinformatics, Bioinformatics, and Bioassay to Predict and Explain the Antibacterial Activity of Nonantibiotic Food and Drug Administration Drugs. <i>Assay and Drug Development Technologies</i> , 2017, 15, 89-105.	0.6	7
14	Assessing inhibitors of mutant isocitrate dehydrogenase using a suite of pre-clinical discovery assays. <i>Scientific Reports</i> , 2017, 7, 12758.	1.6	59
15	CETSA quantitatively verifies in vivo target engagement of novel RIPK1 inhibitors in various biospecimens. <i>Scientific Reports</i> , 2017, 7, 13000.	1.6	44
16	Small-Molecule Screens: A Gateway to Cancer Therapeutic Agents with Case Studies of Food and Drug Administration "Approved Drugs. <i>Pharmacological Reviews</i> , 2017, 69, 479-496.	7.1	58
17	Peptidomimetic inhibitors of APC "Asef interaction block colorectal cancer migration. <i>Nature Chemical Biology</i> , 2017, 13, 994-1001.	3.9	79
18	Modulating Protein-Protein Interactions of the Mitotic Polo-like Kinases to Target Mutant KRAS. <i>Cell Chemical Biology</i> , 2017, 24, 1017-1028.e7.	2.5	25

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19	Interactions of cisplatin analogues with lysozyme: a comparative analysis. <i>BioMetals</i> , 2017, 30, 733-746.	1.8	13
20	Reverse Phase Protein Arrays elucidate mechanisms-of-action and phenotypic response in 2D and 3D models. <i>Drug Discovery Today: Technologies</i> , 2017, 23, 7-16.	4.0	11
21	Label-free target identification using in-gel fluorescence difference <i>via</i> thermal stability shift. <i>Chemical Science</i> , 2017, 8, 1127-1133.	3.7	32
22	<i>Drug Discovery Technologies: Current and Future Trends.</i> , 2017, , 1-32.		4
23	The antitumor natural product tanshinone IIA inhibits protein kinase C and acts synergistically with 17-AAG. <i>Cell Death and Disease</i> , 2018, 9, 165.	2.7	58
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26	Methods to validate Hsp90 inhibitor specificity, to identify off-target effects, and to rethink approaches for further clinical development. <i>Cell Stress and Chaperones</i> , 2018, 23, 467-482.	1.2	86
27	<i>In Situ</i> Target Engagement Studies in Adherent Cells. <i>ACS Chemical Biology</i> , 2018, 13, 942-950.	1.6	23
28	Thermal proximity coaggregation for system-wide profiling of protein complex dynamics in cells. <i>Science</i> , 2018, 359, 1170-1177.	6.0	161
29	Emerging Approaches for the Identification of Protein Targets of Small Molecules - A Practitioners'™ Perspective. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 8504-8535.	2.9	55
30	Identification and validation nucleolin as a target of curcumol in nasopharyngeal carcinoma cells. <i>Journal of Proteomics</i> , 2018, 182, 1-11.	1.2	31
31	Detecting drug-target binding in cells using fluorescence-activated cell sorting coupled with mass spectrometry analysis. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 015002.	1.1	7
32	A High-Throughput Dose-Response Cellular Thermal Shift Assay for Rapid Screening of Drug Target Engagement in Living Cells, Exemplified Using SMYD3 and IDO1. <i>SLAS Discovery</i> , 2018, 23, 34-46.	1.4	40
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40	Cellular target engagement: a new paradigm in drug discovery. <i>Future Medicinal Chemistry</i> , 2018, 10, 1641-1644.	1.1	7
41	A novel triple combination of pharmacological chaperones improves F508del-CFTR correction. <i>Scientific Reports</i> , 2018, 8, 11404.	1.6	27
42	Early Probe and Drug Discovery in Academia: A Minireview. <i>High-Throughput</i> , 2018, 7, 4.	4.4	33
43	In-Cell Titration of Small Solutes Controls Protein Stability and Aggregation. <i>Journal of the American Chemical Society</i> , 2018, 140, 10497-10503.	6.6	36
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51	Benproperine, an ARPC2 inhibitor, suppresses cancer cell migration and tumor metastasis. <i>Biochemical Pharmacology</i> , 2019, 163, 46-59.	2.0	41
52	Development of a Method To Prioritize Protein-Ligand Pairs on Beads Using Protein Conjugated to a Near-IR Dye. <i>ACS Combinatorial Science</i> , 2019, 21, 223-228.	3.8	2
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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161	Chapter 5. Mass Spectrometry in Biophysics: from High Throughput Screening to Structural Biology. <i>RSC Drug Discovery Series</i> , 0, , 87-119.	0.2	0
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