

# Engineering protein thermostability using a generic act screen inside the cell

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The consensus-based approach for gene/enzyme replacement therapies and crystallization strategies: the case of human alanineâ€“glyoxylate aminotransferase. <i>Biochemical Journal</i> , 2014, 462, 453-463.	1.7	30
2	The cellular thermal shift assay for evaluating drug target interactions in cells. <i>Nature Protocols</i> , 2014, 9, 2100-2122.	5.5	900
3	Biomimetic Production of Silk-Like Recombinant Squid Sucker Ring Teeth Proteins. <i>Biomacromolecules</i> , 2014, 15, 3278-3289.	2.6	49
4	Tracking cancer drugs in living cells by thermal profiling of the proteome. <i>Science</i> , 2014, 346, 1255784.	6.0	812
5	Optimizing antibody expression by using the naturally occurring framework diversity in a live bacterial antibody display system. <i>Scientific Reports</i> , 2015, 5, 17488.	1.6	23
6	Implementing bacterial acid resistance into cellâ€“free protein synthesis for bufferâ€“free expression and screening of enzymes. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2630-2635.	1.7	11
7	Engineering Protocells: Prospects for Self-Assembly and Nanoscale Production-Lines. <i>Life</i> , 2015, 5, 1019-1053.	1.1	29
8	Can Stabilization and Inhibition of Aquaporins Contribute to Future Development of Biomimetic Membranes?. <i>Membranes</i> , 2015, 5, 352-368.	1.4	16
9	Improving and repurposing biocatalysts via directed evolution. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 55-64.	2.8	219
10	A generic high-throughput assay to detect aquaporin functional mutants: Potential application to discovery of aquaporin inhibitors. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1869-1876.	1.1	19
11	Rapid Bioinformatic Identification of Thermostabilizing Mutations. <i>Biophysical Journal</i> , 2015, 109, 1420-1428.	0.2	26
12	Thermal proteome profiling for unbiased identification of direct and indirect drug targets using multiplexed quantitative mass spectrometry. <i>Nature Protocols</i> , 2015, 10, 1567-1593.	5.5	481
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14	Early Perspective. <i>Journal of Biomolecular Screening</i> , 2016, 21, 1019-1033.	2.6	24
15	Thermal proteome profiling: unbiased assessment of protein state through heat-induced stability changes. <i>Proteome Science</i> , 2016, 15, 13.	0.7	101
16	The Cellular Thermal Shift Assay: A Novel Biophysical Assay for In Situ Drug Target Engagement and Mechanistic Biomarker Studies. <i>Annual Review of Pharmacology and Toxicology</i> , 2016, 56, 141-161.	4.2	213
17	Structural features determining thermal adaptation of esterases. <i>Protein Engineering, Design and Selection</i> , 2016, 29, 65-76.	1.0	46
18	Regulation of Ras Paralog Thermostability by Networks of Buried Ionizable Groups. <i>Biochemistry</i> , 2016, 55, 534-542.	1.2	10

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20	Characterization of the first naturally thermostable terpene synthases and development of strategies to improve thermostability in this family of enzymes. <i>FEBS Journal</i> , 2017, 284, 1700-1711.	2.2	9
22	Rapid Thermostabilization of <i>Bacillus thuringiensis</i> Serovar Konkukian 97â€²27 Dehydroshikimate Dehydratase through a Structure-Based Enzyme Design and Whole Cell Activity Assay. <i>ACS Synthetic Biology</i> , 2017, 6, 120-129.	1.9	14
23	Directed evolution to improve protein folding in vivo. <i>Current Opinion in Structural Biology</i> , 2018, 48, 117-123.	2.6	32
24	Structural and Dynamics Comparison of Thermostability in Ancient, Modern, and Consensus Elongation Factor Tus. <i>Structure</i> , 2018, 26, 118-129.e3.	1.6	21
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26	Peculiarities and biotechnological potential of environmental adaptation by <i>Geobacillus</i> species. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10425-10437.	1.7	23
27	Production of Biofuels from Biomass by Fungi. <i>Fungal Biology</i> , 2018, , 21-45.	0.3	1
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31	CETSA beyond Soluble Targets: a Broad Application to Multipass Transmembrane Proteins. <i>ACS Chemical Biology</i> , 2019, 14, 1913-1920.	1.6	55
32	Hot CoFi Blot: A High-Throughput Colony-Based Screen for Identifying More Thermally Stable Protein Variants. <i>Methods in Molecular Biology</i> , 2019, 2025, 299-320.	0.4	0
33	Construction of stabilized (R)-selective amine transaminase from <i>Aspergillus terreus</i> by consensus mutagenesis. <i>Journal of Biotechnology</i> , 2019, 293, 8-16.	1.9	20
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39	Improving the enzyme property of ornithine transcarbamylase from <i>Lactobacillus brevis</i> through site-directed mutation. <i>LWT - Food Science and Technology</i> , 2020, 133, 109953.	2.5	4
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43	Target Validation Using PROTACs: Applying the Four Pillars Framework. <i>SLAS Discovery</i> , 2021, 26, 474-483.	1.4	22
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55	Target identification and validation of natural products with label-free methodology: A critical review from 2005 to 2020. , 2020, 216, 107690.		25
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57	Reprogramming cells with synthetic proteins. <i>Asian Journal of Andrology</i> , 2015, 17, 394.	0.8	7

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60	Thermostable designed ankyrin repeat proteins (DARPs) as building blocks for innovative drugs. <i>Journal of Biological Chemistry</i> , 2022, 298, 101403.	1.6	17
61	Overcoming the Solubility Problem in <i>E. coli</i> : Available Approaches for Recombinant Protein Production. <i>Methods in Molecular Biology</i> , 2022, 2406, 35-64.	0.4	3
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67	A Statistical Analysis of the Sequence and Structure of Thermophilic and Non-Thermophilic Proteins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 10116.	1.8	18
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