

# Balaji M Rao

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

737  
citations

687363

13  
h-index

580821

25  
g-index

48  
all docs

48  
docs citations

48  
times ranked

963  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein selection using yeast surface display. <i>Methods</i> , 2013, 60, 15-26.	3.8	110
2	Highly Stable Binding Proteins Derived from the Hyperthermophilic Sso7d Scaffold. <i>Journal of Molecular Biology</i> , 2011, 409, 601-616.	4.2	87
3	mRNA display selection and solid-phase synthesis of Fc-binding cyclic peptide affinity ligands. <i>Biotechnology and Bioengineering</i> , 2013, 110, 857-870.	3.3	74
4	Design of pH Sensitive Binding Proteins from the Hyperthermophilic Sso7d Scaffold. <i>PLoS ONE</i> , 2012, 7, e48928.	2.5	49
5	Two distinct trophectoderm lineage stem cells from human pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2021, 296, 100386.	3.4	48
6	Past, Present, and Future of Affinity-based Cell Separation Technologies. <i>Acta Biomaterialia</i> , 2020, 112, 29-51.	8.3	42
7	Targeted Proteomics of the Secretory Pathway Reveals the Secretome of Mouse Embryonic Fibroblasts and Human Embryonic Stem Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1829-1839.	3.8	31
8	Inefficient Ribosomal Skipping Enables Simultaneous Secretion and Display of Proteins in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 2096-2107.	3.8	27
9	Activin/Nodal Signaling Switches the Terminal Fate of Human Embryonic Stem Cell-derived Trophoblasts. <i>Journal of Biological Chemistry</i> , 2015, 290, 8834-8848.	3.4	23
10	Screening Yeast Display Libraries against Magnetized Yeast Cell Targets Enables Efficient Isolation of Membrane Protein Binders. <i>ACS Combinatorial Science</i> , 2019, 21, 817-832.	3.8	20
11	Genetically encoded live-cell sensor for tyrosinated microtubules. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	20
12	Quantitative Yeast Two Hybrid for the Discovery and Binding Affinity Estimation of Protein-Protein Interactions. <i>ACS Synthetic Biology</i> , 2021, 10, 505-514.	3.8	17
13	Isolation of Chemically Cyclized Peptide Binders Using Yeast Surface Display. <i>ACS Combinatorial Science</i> , 2020, 22, 519-532.	3.8	15
14	Screening of Yeast Display Libraries of Enzymatically Treated Peptides to Discover Macrocyclic Peptide Ligands. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1634.	4.1	14
15	A Fyn biosensor reveals pulsatile, spatially localized kinase activity and signaling crosstalk in live mammalian cells. <i>ELife</i> , 2020, 9, .	6.0	14
16	Combinatorial Pairwise Assembly Efficiently Generates High Affinity Binders and Enables a Mix-and-Read Detection Scheme. <i>ACS Synthetic Biology</i> , 2016, 5, 1348-1354.	3.8	13
17	Kinetic Study of Degrafting Poly(methyl methacrylate) Brushes from Flat Substrates by Tetrabutylammonium Fluoride. <i>Macromolecules</i> , 2018, 51, 10237-10245.	4.8	13
18	Design and evaluation of engineered protein biosensors for live-cell imaging of EGFR phosphorylation. <i>Science Signaling</i> , 2019, 12, .	3.6	11

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19	Avidity-mediated virus separation using a hyperthermophilic affinity ligand. <i>Biotechnology Progress</i> , 2013, 29, 237-246.	2.6	10
20	Scaffold Diversification Enhances Effectiveness of a Superlibrary of Hyperthermophilic Proteins. <i>ACS Synthetic Biology</i> , 2013, 2, 6-13.	3.8	10
21	Design and Fabrication of Wettability Gradients with Tunable Profiles through Degrafting Organosilane Layers from Silica Surfaces by Tetrabutylammonium Fluoride. <i>Langmuir</i> , 2017, 33, 14556-14564.	3.5	10
22	Identification of Epigenetic Factor Proteins Expressed in Human Embryonic Stem Cell-Derived Trophoblasts and in Human Placental Trophoblasts. <i>Journal of Proteome Research</i> , 2016, 15, 2433-2444.	3.7	9
23	Identification and characterization of a novel Sso7d scaffold-based binder against Notch1. <i>Scientific Reports</i> , 2017, 7, 12021.	3.3	9
24	Discovery of Membrane-Permeating Cyclic Peptides via mRNA Display. <i>Bioconjugate Chemistry</i> , 2020, 31, 2325-2338.	3.6	9
25	Trophoblast differentiation of human embryonic stem cells. <i>Biotechnology Journal</i> , 2013, 8, 421-433.	3.5	8
26	An Engineered Sso7d Variant Enables Efficient Magnetization of Yeast Cells. <i>ACS Combinatorial Science</i> , 2018, 20, 579-584.	3.8	8
27	Use of Target-Displaying Magnetized Yeast in Screening mRNA-Display Peptide Libraries to Identify Ligands. <i>ACS Combinatorial Science</i> , 2020, 22, 738-744.	3.8	7
28	Targeted Mutagenesis and Combinatorial Library Screening Enables Control of Protein Orientation on Surfaces and Increased Activity of Adsorbed Proteins. <i>Langmuir</i> , 2016, 32, 8660-8667.	3.5	4
29	Mapping the residue specificities of epigenome enzymes by yeast surface display. <i>Cell Chemical Biology</i> , 2021, 28, 1772-1779.e4.	5.2	4
30	Simultaneous Soluble Secretion and Surface Display of Proteins in <i>Saccharomyces cerevisiae</i> Using Inefficient Ribosomal Skipping. <i>Methods in Molecular Biology</i> , 2020, 2070, 321-334.	0.9	2
31	Experimental and Analytical Framework for "Mix-and-Read" Assays Based on Split Luciferase. <i>ACS Omega</i> , 2022, 7, 24551-24560.	3.5	2
32	Modified Histone Peptides Linked to Magnetic Beads Reduce Binding Specificity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1691.	4.1	1
33	Yeast Display-Guided Selection of pH-Dependent Binders. <i>Methods in Molecular Biology</i> , 2022, 2491, 293-311.	0.9	1
34	Isolation of Single-Domain Antibodies to Transmembrane Proteins Using Magnetized Yeast Cell Targets. <i>Methods in Molecular Biology</i> , 2022, 2446, 95-119.	0.9	0
35	Discovery of Cyclic Peptide Binders from Chemically Constrained Yeast Display Libraries. <i>Methods in Molecular Biology</i> , 2022, 2491, 387-415.	0.9	0