

Krishna M G Mallela

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Convergent Evolution of Multiple Mutations Improves the Viral Fitness of SARS-CoV-2 Variants by Balancing Positive and Negative Selection. <i>Biochemistry</i> , 2022, 61, 963-980.	1.2	12
2	Biophysical Fitness Landscape of the SARS-CoV-2 Delta Variant Receptor Binding Domain. <i>Journal of Molecular Biology</i> , 2022, 434, 167622.	2.0	3
3	Antibody-Dependent Complement Responses toward SARS-CoV-2 Receptor-Binding Domain Immobilized on α -Pseudovirus-like Nanoparticles. <i>ACS Nano</i> , 2022, , .	7.3	7
4	Manufacturing Challenges and Rational Formulation Development for AAV Viral Vectors. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 2609-2624.	1.6	103
5	Receptor binding, immune escape, and protein stability direct the natural selection of SARS-CoV-2 variants. <i>Journal of Biological Chemistry</i> , 2021, 297, 101208.	1.6	37
6	Tissue-Specificity of Dystrophin-Actin Interactions: Isoform-Specific Thermodynamic Stability and Actin-Binding Function of Tandem Calponin-Homology Domains. <i>ACS Omega</i> , 2020, 5, 2159-2168.	1.6	4
7	Effects of Tubing Type, Operating Parameters, and Surfactants on Particle Formation During Peristaltic Filling Pump Processing of a mAb Formulation. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 1439-1448.	1.6	18
8	2D NMR Analysis of the Effect of Asparagine Deamidation Versus Methionine Oxidation on the Structure, Stability, Aggregation, and Function of a Therapeutic Protein. <i>Molecular Pharmaceutics</i> , 2019, 16, 4621-4635.	2.3	10
9	Effect of Peroxide- Versus Alkoxy-Induced Chemical Oxidation on the Structure, Stability, Aggregation, and Function of a Therapeutic Monoclonal Antibody. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2789-2803.	1.6	30
10	Effect of Chemical Oxidation on the Higher Order Structure, Stability, Aggregation, and Biological Function of Interferon Alpha-2a: Role of Local Structural Changes Detected by 2D NMR. <i>Pharmaceutical Research</i> , 2018, 35, 232.	1.7	14
11	Effect of photo-degradation on the structure, stability, aggregation, and function of an IgG1 monoclonal antibody. <i>International Journal of Pharmaceutics</i> , 2018, 547, 438-449.	2.6	45
12	The N-Terminal Flanking Region Modulates the Actin Binding Affinity of the Utrophin Tandem Calponin-Homology Domain. <i>Biochemistry</i> , 2017, 56, 2627-2636.	1.2	21
13	Effect of Polysorbate 20 and Polysorbate 80 on the Higher-Order Structure of a Monoclonal Antibody and Its Fab and Fc Fragments Probed Using 2D Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3486-3498.	1.6	86
14	Biophysical analysis of the effect of chemical modification by 4-oxononanal on the structure, stability, and function of binding immunoglobulin protein (BiP). <i>PLoS ONE</i> , 2017, 12, e0183975.	1.1	4
15	Interdomain Linker Determines Primarily the Structural Stability of Dystrophin and Utrophin Tandem Calponin-Homology Domains Rather than Their Actin-Binding Affinity. <i>Biochemistry</i> , 2015, 54, 5480-5488.	1.2	13
16	The N- and C-Terminal Domains Differentially Contribute to the Structure and Function of Dystrophin and Utrophin Tandem Calponin-Homology Domains. <i>Biochemistry</i> , 2015, 54, 6942-6950.	1.2	5
17	Role of Benzyl Alcohol in the Unfolding and Aggregation of Interferon β -2a. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 407-415.	1.6	18
18	High yield soluble bacterial expression and streamlined purification of recombinant human interferon β -2a. <i>Protein Expression and Purification</i> , 2014, 99, 138-146.	0.6	20

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19	The Actin Binding Affinity of the Utrophin Tandem Calponin-Homology Domain Is Primarily Determined by Its N-Terminal Domain. <i>Biochemistry</i> , 2014, 53, 1801-1809.	1.2	20
20	Antimicrobial preservatives induce aggregation of interferon alpha-2a: The order in which preservatives induce protein aggregation is independent of the protein. <i>International Journal of Pharmaceutics</i> , 2014, 472, 356-361.	2.6	21
21	The C-Terminal Domain of the Utrophin Tandem Calponin-Homology Domain Appears To Be Thermodynamically and Kinetically More Stable Than the Full-Length Protein. <i>Biochemistry</i> , 2014, 53, 2209-2211.	1.2	13
22	Missense Mutation Lys18Asn in Dystrophin that Triggers X-Linked Dilated Cardiomyopathy Decreases Protein Stability, Increases Protein Unfolding, and Perturbs Protein Structure, but Does Not Affect Protein Function. <i>PLoS ONE</i> , 2014, 9, e110439.	1.1	13
23	Effect of Antimicrobial Preservatives on Partial Protein Unfolding and Aggregation. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 365-376.	1.6	26
24	The N-Terminal Actin-Binding Tandem Calponin-Homology (CH) Domain of Dystrophin Is in a Closed Conformation in Solution and When Bound to F-actin. <i>Biophysical Journal</i> , 2012, 103, 1970-1978.	0.2	22
25	Thermodynamic stability, unfolding kinetics, and aggregation of the N-terminal actin-binding domains of utrophin and dystrophin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1377-1392.	1.5	14
26	The N-terminal actin binding domain (ABD1) of dystrophin is in a closed conformation in solution and undergoes a conformational transition upon binding to F-actin. <i>FASEB Journal</i> , 2012, 26, 773.5.	0.2	0
27	Mechanisms of m-cresol-induced Protein Aggregation Studied Using a Model Protein Cytochrome c. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 1679-1689.	1.6	29
28	Role of partial protein unfolding in alcohol-induced protein aggregation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 2625-2637.	1.5	41
29	Missense mutations in dystrophin that trigger muscular dystrophy decrease protein stability and lead to cross- β aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15069-15074.	3.3	68
30	Sevoflurane-Induced Structural Changes in a Four- α -Helix Bundle Protein. <i>Biochemistry</i> , 2005, 44, 12128-12135.	1.2	14
31	Expression and Characterization of a Four- α -Helix Bundle Protein That Binds the Volatile General Anesthetic Halothane. <i>Biomacromolecules</i> , 2005, 6, 1516-1523.	2.6	12
32	Structural changes in a four-alpha-helix bundle protein following sevoflurane binding. <i>International Congress Series</i> , 2005, 1283, 155-159.	0.2	1