

Santhoshkumar Puttur

List of Publications by Citations

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46
papers

1,270
citations

21
h-index

34
g-index

50
ext. papers

1,401
ext. citations

3.9
avg, IF

4.5
L-index

#	Paper	IF	Citations
46	Lens aging: effects of crystallins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009 , 1790, 1095-108	4	218
45	Significance of interactions of low molecular weight crystallin fragments in lens aging and cataract formation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8477-85	5.4	73
44	Inhibition of amyloid fibrillogenesis and toxicity by a peptide chaperone. <i>Molecular and Cellular Biochemistry</i> , 2004 , 267, 147-55	4.2	66
43	Chaperone peptides of α -crystallin inhibit epithelial cell apoptosis, protein insolubilization, and opacification in experimental cataracts. <i>Journal of Biological Chemistry</i> , 2013 , 288, 13022-35	5.4	59
42	Acetylation of α -crystallin in the human lens: effects on structure and chaperone function. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012 , 1822, 120-9	6.9	48
41	Phe71 is essential for chaperone-like function in alpha A-crystallin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 47094-9	5.4	47
40	α -crystallin peptide SDRDKFVIFLDVKHF accumulating in aging lens impairs the function of α -crystallin and induces lens protein aggregation. <i>PLoS ONE</i> , 2011 , 6, e19291	3.7	47
39	Effect of site-directed mutagenesis of methylglyoxal-modifiable arginine residues on the structure and chaperone function of human alphaA-crystallin. <i>Biochemistry</i> , 2006 , 45, 4569-77	3.2	43
38	Hydroimidazolone modification of the conserved Arg12 in small heat shock proteins: studies on the structure and chaperone function using mutant mimics. <i>PLoS ONE</i> , 2012 , 7, e30257	3.7	36
37	Histone deacetylase inhibitors trichostatin A and vorinostat inhibit TGF β -induced lens epithelial-to-mesenchymal cell transition 2014 , 55, 4731-40		33
36	AlphaA-crystallin interacting regions in the small heat shock protein, alphaB-crystallin. <i>Biochemistry</i> , 2004 , 43, 15785-95	3.2	29
35	In vitro sequestration of two organophosphorus homologs by the rat liver. <i>Chemico-Biological Interactions</i> , 1999 , 119-120, 277-82	5	29
34	A peptide sequence-YSGVCHTDLHAWHGDWPLPVK [40-60]-in yeast alcohol dehydrogenase prevents the aggregation of denatured substrate proteins. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 307, 1-7	3.4	27
33	Acetylation of lysine 92 improves the chaperone and anti-apoptotic activities of human β -crystallin. <i>Biochemistry</i> , 2013 , 52, 8126-38	3.2	26
32	Effect of a single AGE modification on the structure and chaperone activity of human alphaB-crystallin. <i>Biochemistry</i> , 2007 , 46, 14682-92	3.2	26
31	Cataract-causing alphaAG98R mutant shows substrate-dependent chaperone activity. <i>Molecular Vision</i> , 2007 , 13, 2301-9	2.3	26
30	Cleavage of the C-terminal serine of human alphaA-crystallin produces alphaA1-172 with increased chaperone activity and oligomeric size. <i>Biochemistry</i> , 2007 , 46, 2510-9	3.2	24

29	Alpha-crystallin-derived peptides as therapeutic chaperones. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 246-51	4	23
28	Deletion of (54)FLRAPS WF(61) residues decreases the oligomeric size and enhances the chaperone function of alphaB-crystallin. <i>Biochemistry</i> , 2009 , 48, 5066-73	3.2	23
27	Identification of a region in alcohol dehydrogenase that binds to alpha-crystallin during chaperone action. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2002 , 1598, 115-21	4	22
26	The role of the cysteine residue in the chaperone and anti-apoptotic functions of human Hsp27. <i>Journal of Cellular Biochemistry</i> , 2010 , 110, 408-19	4.7	21
25	Failure of Oxysterols Such as Lanosterol to Restore Lens Clarity from Cataracts. <i>Scientific Reports</i> , 2019 , 9, 8459	4.9	20
24	The A66-80 peptide interacts with soluble E-crystallin and induces its aggregation and precipitation: a contribution to age-related cataract formation. <i>Biochemistry</i> , 2013 , 52, 3638-50	3.2	20
23	Paradoxical effects of substitution and deletion mutation of Arg56 on the structure and chaperone function of human alphaB-crystallin. <i>Biochemistry</i> , 2007 , 46, 1117-27	3.2	20
22	A-Crystallin-derived mini-chaperone modulates stability and function of cataract causing A98R-crystallin. <i>PLoS ONE</i> , 2012 , 7, e44077	3.7	18
21	Identification and characterization of a copper-binding site in A-crystallin. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1429-36	7.8	17
20	Anti-chaperone betaA3/A1(102-117) peptide interacting sites in human alphaB-crystallin. <i>Molecular Vision</i> , 2008 , 14, 666-74	2.3	17
19	Quaternary structural parameters of the congenital cataract causing mutants of A-crystallin. <i>Molecular and Cellular Biochemistry</i> , 2012 , 362, 93-102	4.2	15
18	Chemical modulation of the chaperone function of human alphaA-crystallin. <i>Journal of Biochemistry</i> , 2008 , 144, 21-32	3.1	15
17	Conserved F84 and P86 residues in alphaB-crystallin are essential to effectively prevent the aggregation of substrate proteins. <i>Protein Science</i> , 2006 , 15, 2488-98	6.3	13
16	Addition of A-crystallin sequence 164-173 to a mini-chaperone DFVIFLDVKHFSPEDLT alters the conformation but not the chaperone-like activity. <i>Biochemistry</i> , 2014 , 53, 2615-23	3.2	12
15	Profiling of lens protease involved in generation of A-66-80 crystallin peptide using an internally quenched protease substrate. <i>Experimental Eye Research</i> , 2013 , 109, 51-9	3.7	9
14	Differential in vivo inhibition of the foetal and maternal brain acetylcholinesterase by bromophos in the rat. <i>Neurotoxicology and Teratology</i> , 1994 , 16, 227-32	3.9	9
13	Cell-penetrating Chaperone Peptide Prevents Protein Aggregation And Protects Against Cell Apoptosis. <i>Advanced Biology</i> , 2018 , 2, 1700095	3.5	9
12	Lens crystallin modifications and cataract in transgenic mice overexpressing acylpeptide hydrolase. <i>Journal of Biological Chemistry</i> , 2014 , 289, 9039-52	5.4	8

11	Effect of trifluoroethanol on the structural and functional properties of alpha-crystallin. <i>The Protein Journal</i> , 2002 , 21, 87-95		8
10	Identification of subunit-subunit interaction sites in A-WT crystallin and mutant A-G98R crystallin using isotope-labeled cross-linker and mass spectrometry. <i>PLoS ONE</i> , 2013 , 8, e65610	3-7	7
9	Cataract-causing A-G98R-crystallin mutant dissociates into monomers having chaperone activity. <i>Molecular Vision</i> , 2011 , 17, 7-15	2-3	7
8	Role of alphaB15 and alphaBT162 residues in subunit interaction during oligomerization of alphaB-crystallin. <i>Molecular Vision</i> , 2008 , 14, 1835-44	2-3	6
7	Lens Endogenous Peptide A66-80 Generates Hydrogen Peroxide and Induces Cell Apoptosis 2017 , 8, 57-70		5
6	Characterization of an N-terminal mutant of A-crystallin A-R21Q associated with congenital cataract. <i>Experimental Eye Research</i> , 2018 , 174, 185-195	3-7	4
5	Functional Rescue of Cataract-Causing A-G98R-Crystallin by Targeted Compensatory Suppressor Mutations in Human A-Crystallin. <i>Biochemistry</i> , 2019 , 58, 4148-4158	3-2	3
4	Structural and functional consequences of chaperone site deletion in A-crystallin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016 , 1864, 1529-38	4	2
3	A-crystallin-derived minichaperone stabilizes A-G98R-crystallin by affecting its zeta potential. <i>Molecular Vision</i> , 2018 , 24, 297-304	2-3	1
2	Proteases in Lens and Cataract. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 221-238		1
1	Substrate Protein Interactions and Methylglyoxal Modifications Reduce the Aggregation Propensity of Human Alpha-A-Crystallin G98R Mutant.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 875205 ^{5,6}		