# Santhoshkumar Puttur

List of Publications by Year
in descending order



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|---|---|---|---|
| 49 papers | 1,390 citations | 304368 22 h-index | 344852 36 g-index |
| 50 all docs | 50 docs citations | 50 times ranked | 1146 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Lens aging: Effects of crystallins. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1095-1108. | 1.1 | 268 |
| 2 | Significance of Interactions of Low Molecular Weight Crystallin Fragments in Lens Aging and Cataract Formation. Journal of Biological Chemistry, 2008, 283, 8477-8485. | 1.6 | 87 |
| 3 | Inhibition of amyloid fibrillogenesis and toxicity by a peptide chaperone. Molecular and Cellular Biochemistry, 2004, 267, 147-155. | 1.4 | 72 |
| 4 | Chaperone Peptides of Î±-Crystallin Inhibit Epithelial Cell Apoptosis, Protein Insolubilization, and Opacification in Experimental Cataracts. Journal of Biological Chemistry, 2013, 288, 13022-13035. | 1.6 | 68 |
| 5 | Acetylation of Î±A-crystallin in the human lens: Effects on structure and chaperone function. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 120-129. | 1.8 | 55 |
| 6 | Î±A-Crystallin Peptide 66SDRDKFVIFLDVKHF80 Accumulating in Aging Lens Impairs the Function of Î±-Crystallin and Induces Lens Protein Aggregation. PLoS ONE, 2011, 6, e19291. | 1.1 | 54 |
| 7 | Phe71 Is Essential for Chaperone-like Function in Î±A-crystallin. Journal of Biological Chemistry, 2001, 276, 47094-47099. | 1.6 | 49 |
| 8 | Effect of Site-Directed Mutagenesis of Methylglyoxal-Modifiable Arginine Residues on the Structure and Chaperone Function of Human Î±A-Crystallin. Biochemistry, 2006, 45, 4569-4577. | 1.2 | 45 |
| 9 | Hydroimidazolone Modification of the Conserved Arg12 in Small Heat Shock Proteins: Studies on the Structure and Chaperone Function Using Mutant Mimics. PLoS ONE, 2012, 7, e30257. | 1.1 | 39 |
| 10 | Histone Deacetylase Inhibitors Trichostatin A and Vorinostat Inhibit TGFÎ²2-Induced Lens Epithelial-to-Mesenchymal Cell Transition. , 2014, 55, 4731. | | 37 |
| 11 | Failure of Oxysterols Such as Lanosterol to Restore Lens Clarity from Cataracts. Scientific Reports, 2019, 9, 8459. | 1.6 | 35 |
| 12 | In vitro sequestration of two organophosphorus homologs by the rat liver. Chemico-Biological Interactions, 1999, 119-120, 277-282. | 1.7 | 33 |
| 13 | Alpha-crystallin-derived peptides as therapeutic chaperones. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 246-251. | 1.1 | 33 |
| 14 | A peptide sequenceâ€"YSGVCHTDLHAWHGDWPLPVK [40â€"60]â€"in yeast alcohol dehydrogenase prevents the aggregation of denatured substrate proteins. Biochemical and Biophysical Research Communications, 2003, 307, 1-7. | 1.0 | 32 |
| 15 | Î±A-Crystallin Interacting Regions in the Small Heat Shock Protein, Î±B-Crystallinâ€. Biochemistry, 2004, 43, 15785-15795. | 1.2 | 31 |
| 16 | Effect of a Single AGE Modification on the Structure and Chaperone Activity of Human Î±B-Crystallin. Biochemistry, 2007, 46, 14682-14692. | 1.2 | 31 |
| 17 | Identification of a region in alcohol dehydrogenase that binds to Î±-crystallin during chaperone action. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1598, 115-121. | 1.1 | 28 |
| 18 | Acetylation of Lysine 92 Improves the Chaperone and Anti-apoptotic Activities of Human Î±B-Crystallin. Biochemistry, 2013, 52, 8126-8138. | 1.2 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Cataract-causing alphaAG98R mutant shows substrate-dependent chaperone activity. Molecular Vision, 2007, 13, 2301-9. | 1.1 | 27 |
| 20 | Cleavage of the C-Terminal Serine of Human Î±A-Crystallin Produces Î±A1-172 with Increased Chaperone Activity and Oligomeric Size. Biochemistry, 2007, 46, 2510-2519. | 1.2 | 26 |
| 21 | Deletion of <sup>54</sup>FLRAPSWF<sup>61</sup> Residues Decreases the Oligomeric Size and Enhances the Chaperone Function of Î±B-Crystallin. Biochemistry, 2009, 48, 5066-5073. | 1.2 | 25 |
| 22 | The role of the cysteine residue in the chaperone and antiâ€apoptotic functions of human Hsp27. Journal of Cellular Biochemistry, 2010, 110, 408-419. | 1.2 | 25 |
| 23 | The Î±A66â€“80 Peptide Interacts with Soluble Î±-Crystallin and Induces Its Aggregation and Precipitation: A Contribution to Age-Related Cataract Formation. Biochemistry, 2013, 52, 3638-3650. | 1.2 | 23 |
| 24 | Paradoxical Effects of Substitution and Deletion Mutation of Arg56 on the Structure and Chaperone Function of Human Î±B-Crystallinâ€. Biochemistry, 2007, 46, 1117-1127. | 1.2 | 22 |
| 25 | Î±A-Crystallinâ€“Derived Mini-Chaperone Modulates Stability and Function of Cataract Causing Î±AG98R-Crystallin. PLoS ONE, 2012, 7, e44077. | 1.1 | 22 |
| 26 | Identification and characterization of a copper-binding site in Î±A-crystallin. Free Radical Biology and Medicine, 2011, 50, 1429-1436. | 1.3 | 21 |
| 27 | Chemical Modulation of the Chaperone Function of Human Î±A-Crystallin. Journal of Biochemistry, 2008, 144, 21-32. | 0.9 | 17 |
| 28 | Quaternary structural parameters of the congenital cataract causing mutants of Î±A-crystallin. Molecular and Cellular Biochemistry, 2012, 362, 93-102. | 1.4 | 17 |
| 29 | Anti-chaperone betaA3/A1(102-117) peptide interacting sites in human alphaB-crystallin. Molecular Vision, 2008, 14, 666-74. | 1.1 | 17 |
| 30 | Conserved F84 and P86 residues in Î±B-crystallin are essential to effectively prevent the aggregation of substrate proteins. Protein Science, 2006, 15, 2488-2498. | 3.1 | 13 |
| 31 | Addition of Î±A-Crystallin Sequence 164â€“173 to a Mini-Chaperone DFVIFLDVKHFSPEDLT Alters the Conformation but Not the Chaperone-like Activity. Biochemistry, 2014, 53, 2615-2623. | 1.2 | 13 |
| 32 | Cellâ€Penetrating Chaperone Peptide Prevents Protein Aggregation and Protects against Cell Apoptosis. Advanced Biology, 2018, 2, 1700095. | 3.0 | 12 |
| 33 | Differential in vivo inhibition of the foetal and maternal brain acetylcholinesterase by Bromophos in the rat. Neurotoxicology and Teratology, 1994, 16, 227-232. | 1.2 | 10 |
| 34 | Effect of trifluoroethanol on the structural and functional properties of alpha-crystallin. The Protein Journal, 2002, 21, 87-95. | 1.1 | 10 |
| 35 | Lens Crystallin Modifications and Cataract in Transgenic Mice Overexpressing Acylpeptide Hydrolase. Journal of Biological Chemistry, 2014, 289, 9039-9052. | 1.6 | 10 |
| 36 | Profiling of lens protease involved in generation of Î±A-66-80 crystallin peptide using an internally quenched protease substrate. Experimental Eye Research, 2013, 109, 51-59. | 1.2 | 9 |

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|---|---|---|---|
| 37 | Cataract-causing Î±AG98R-crystallin mutant dissociates into monomers having chaperone activity. Molecular Vision, 2011, 17, 7-15. | 1.1 | 9 |
| 38 | Identification of Subunit-Subunit Interaction Sites in Î±A-WT Crystallin and Mutant Î±A-G98R Crystallin Using Isotope-Labeled Cross-Linker and Mass Spectrometry. PLoS ONE, 2013, 8, e65610. | 1.1 | 8 |
| 39 | Lens Endogenous Peptide Î±A66-80 Generates Hydrogen Peroxide and Induces Cell Apoptosis. , 2017, 8, 57. | | 6 |
| 40 | Role of alphaBI5 and alphaBT162 residues in subunit interaction during oligomerization of alphaB-crystallin. Molecular Vision, 2008, 14, 1835-44. | 1.1 | 6 |
| 41 | Characterization of an N-terminal mutant of Î±A-crystallin Î±Aâ€“R21Q associated with congenital cataract. Experimental Eye Research, 2018, 174, 185-195. | 1.2 | 5 |
| 42 | Functional Rescue of Cataract-Causing Î±A-G98R-Crystallin by Targeted Compensatory Suppressor Mutations in Human Î±A-Crystallin. Biochemistry, 2019, 58, 4148-4158. | 1.2 | 4 |
| 43 | Structural and functional consequences of chaperone site deletion in Î±A-crystallin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1529-1538. | 1.1 | 3 |
| 44 | Proteases in Lens and Cataract. Oxidative Stress in Applied Basic Research and Clinical Practice, 2015, , 221-238. | 0.4 | 3 |
| 45 | Effect of Structural Changes Induced by Deletion of 54FLRAPSWF61 Sequence in Î±B-crystallin on Chaperone Function and Anti-Apoptotic Activity. International Journal of Molecular Sciences, 2021, 22, 10771. | 1.8 | 1 |
| 46 | Î±A-crystallin-derived minichaperone stabilizes Î±AG98R-crystallin by affecting its zeta potential. Molecular Vision, 2018, 24, 297-304. | 1.1 | 1 |
| 47 | Significance of interactions of low molecular weight crystallin fragments in lens aging and cataract formation. VOLUME 283 (2008) PAGES 8477-8485. Journal of Biological Chemistry, 2008, 283, 36060. | 1.6 | 0 |
| 48 | Deletion of Specific Conserved Motifs from the N-Terminal Domain of Î±B-Crystallin Results in the Activation of Chaperone Functions. International Journal of Molecular Sciences, 2022, 23, 1099. | 1.8 | 0 |
| 49 | Substrate Protein Interactions and Methylglyoxal Modifications Reduce the Aggregation Propensity of Human Alpha-A-Crystallin G98R Mutant. Frontiers in Molecular Biosciences, 2022, 9, 875205. | 1.6 | 0 |