

# Takumi Takata

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

810  
citations

567281

15  
h-index

526287

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deamidation destabilizes and triggers aggregation of a lens protein, $\beta$ A3-crystallin. <i>Protein Science</i> , 2008, 17, 1565-1575.	7.6	115
2	The presence of d- $\beta$ -aspartic acid-containing peptides in elastic fibers of sun-damaged skin: a potent marker for ultraviolet-induced skin aging. <i>Biochemical and Biophysical Research Communications</i> , 2002, 294, 1047-1051.	2.1	96
3	Deamidation Alters the Structure and Decreases the Stability of Human Lens $\beta$ 3-Crystallin. <i>Biochemistry</i> , 2007, 46, 8861-8871.	2.5	59
4	D-Amino acids in protein: The mirror of life as a molecular index of aging. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 840-847.	2.3	56
5	Localization of D- $\beta$ -Aspartic Acid-Containing Proteins in Human Eyes. , 2007, 48, 3923.		52
6	Isomerization of aspartyl residues in crystallins and its influence upon cataract. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 183-191.	2.4	47
7	Aggregation of Trp > Glu point mutants of human $\beta$ crystallin provides a model for hereditary or UV-induced cataract. <i>Protein Science</i> , 2016, 25, 1115-1128.	7.6	44
8	Rapid Survey of Four Asp Isomers in Disease-Related Proteins by LC-MS combined with Commercial Enzymes. <i>Analytical Chemistry</i> , 2015, 87, 561-568.	6.5	37
9	New insight into the dynamical system of $\beta$ -crystallin oligomers. <i>Scientific Reports</i> , 2016, 6, 29208.	3.3	32
10	Isomeric Replacement of a Single Aspartic Acid Induces a Marked Change in Protein Function: The Example of Ribonuclease A. <i>ACS Omega</i> , 2017, 2, 260-267.	3.5	32
11	Alpha B- and $\beta$ A3-crystallins containing d-Aspartic acids exist in a monomeric state. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1-9.	2.3	26
12	Deamidation alters interactions of beta-crystallins in hetero-oligomers. <i>Molecular Vision</i> , 2009, 15, 241-9.	1.1	25
13	Isomerization of Asp residues plays an important role in $\beta$ -crystallin dissociation. <i>FEBS Journal</i> , 2016, 283, 850-859.	4.7	21
14	Identification of $\alpha$ -amino acid-containing peptides in human serum. <i>PLoS ONE</i> , 2017, 12, e0189972.	2.5	21
15	Quantitative analysis of isomeric (l- $\beta$ -, l- $\beta$ -, d- $\beta$ -, d- $\beta$ -) aspartyl residues in proteins from elderly donors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 25-33.	2.8	20
16	Solvent accessibility of $\beta$ 2-crystallin and local structural changes due to deamidation at the dimer interface. <i>Experimental Eye Research</i> , 2010, 91, 336-346.	2.6	16
17	Identification of Isomeric Aspartate residues in $\beta$ 2-crystallin from Aged Human Lens. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 767-774.	2.3	15
18	Ferulic Acid Suppresses Amyloid $\beta$ Production in the Human Lens Epithelial Cell Stimulated with Hydrogen Peroxide. <i>BioMed Research International</i> , 2017, 2017, 1-9.	1.9	14

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19	Elucidation of the mechanism of subunit exchange in $\beta$ -crystallin oligomers. <i>Scientific Reports</i> , 2021, 11, 2555.	3.3	11
20	Asp isomerization increases aggregation of $\beta$ -crystallin and decreases its chaperone activity in human lens of various ages. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140446.	2.3	10
21	Negative charge at aspartate 151 is important for human lens $\beta$ -crystallin stability and chaperone function. <i>Experimental Eye Research</i> , 2019, 182, 10-18.	2.6	9
22	Effect of a Lens Protein in Low-Temperature Culture of Novel Immortalized Human Lens Epithelial Cells (iHLEC-NY2). <i>Cells</i> , 2020, 9, 2670.	4.1	9
23	Asp 58 modulates lens $\beta$ -crystallin oligomer formation and chaperone function. <i>FEBS Journal</i> , 2018, 285, 2263-2277.	4.7	7
24	Characterization of new d- $\beta$ -aspartate-containing proteins in a lens-derived cell line. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 1022-1031.	2.1	6
25	Differential analysis of d- $\beta$ -Asp-containing proteins found in normal and infrared irradiated rabbit lens. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 263-271.	2.1	6
26	Simultaneous and Rapid Detection of Multiple Epimers and Isomers of Aspartyl Residues in Lens Proteins Using an LC-MS-MRM Method. <i>ACS Omega</i> , 2020, 5, 27626-27632.	3.5	5
27	Effect of Asp 96 isomerization on the properties of a lens $\beta$ -crystallin-derived short peptide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 139-144.	2.8	4
28	Site-specific rapid deamidation and isomerization in human lens $\beta$ -crystallin in vitro. <i>Protein Science</i> , 2020, 29, 941-951.	7.6	4
29	The C-terminal cysteine annulus participates in auto-chaperone function for Salmonellaphage P22 tailspike folding and assembly. <i>Bacteriophage</i> , 2012, 2, 36-49.	1.9	3
30	d-Amino Acid Residues in Proteins Related to Aging and Age-Related Diseases and a New Analysis of the Isomers in Proteins. , 2016, , 241-254.		3
31	Immunological detection of D-beta-aspartate-containing protein in lens-derived cell lines. <i>Molecular Vision</i> , 2003, 9, 200-4.	1.1	3
32	Isomerization of Asp is essential for assembly of amyloid-like fibrils of $\beta$ -crystallin-derived peptide. <i>PLoS ONE</i> , 2021, 16, e0250277.	2.5	2
33	The Importance of the Idea of "Parachirality" in Life Science. , 2017, , 119-131.		0
34	Identification of D-amino Acid Residues in Proteins Using Mass Spectrometry. <i>Bunseki Kagaku</i> , 2022, 71, 319-324.	0.2	0