

# Noriko Fujii

## List of Publications by Year in descending order

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59  
papers

2,216  
citations

257101

24  
h-index

223531

46  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isomerization of Asp is essential for assembly of amyloid-like fibrils of $\hat{\pm}$ A-crystallin-derived peptide. PLoS ONE, 2021, 16, e0250277.	1.1	2
2	Site-specific rapid deamidation and isomerization in human lens $\hat{\pm}$ A-crystallin in vitro. Protein Science, 2020, 29, 941-951.	3.1	4
3	A single Asp isomer substitution in an $\hat{\pm}$ A-crystallin-derived peptide induces a large change in peptide properties. Experimental Eye Research, 2020, 192, 107930.	1.2	9
4	Age-related isomerization of Asp in human immunoglobulin G kappa chain. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140410.	1.1	3
5	Asp isomerization increases aggregation of $\hat{\pm}$ -crystallin and decreases its chaperone activity in human lens of various ages. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140446.	1.1	10
6	Simultaneous and Rapid Detection of Multiple Epimers and Isomers of Aspartyl Residues in Lens Proteins Using an LC-MS-MRM Method. ACS Omega, 2020, 5, 27626-27632.	1.6	5
7	Negative charge at aspartate 151 is important for human lens $\hat{\pm}$ A-crystallin stability and chaperone function. Experimental Eye Research, 2019, 182, 10-18.	1.2	9
8	Identification of Isomeric Aspartate residues in $\hat{\pm}$ B2-crystallin from Aged Human Lens. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 767-774.	1.1	15
9	Asp 58 modulates lens $\hat{\pm}$ A-crystallin oligomer formation and chaperone function. FEBS Journal, 2018, 285, 2263-2277.	2.2	7
10	D-Amino acids in protein: The mirror of life as a molecular index of aging. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 840-847.	1.1	56
11	Isomeric Replacement of a Single Aspartic Acid Induces a Marked Change in Protein Function: The Example of Ribonuclease A. ACS Omega, 2017, 2, 260-267.	1.6	32
12	Ferulic Acid Suppresses Amyloid $\hat{\pm}$ 2 Production in the Human Lens Epithelial Cell Stimulated with Hydrogen Peroxide. BioMed Research International, 2017, 2017, 1-9.	0.9	14
13	The Importance of the Idea of "Parachirality" in Life Science. , 2017, , 119-131.		0
14	Identification of $\hat{\pm}$ -amino acid-containing peptides in human serum. PLoS ONE, 2017, 12, e0189972.	1.1	21
15	One-shot LC-MS/MS analysis of post-translational modifications including oxidation and deamidation of rat lens $\hat{\pm}$ - and $\hat{\pm}$ 2-crystallins induced by $\hat{\pm}$ 3-irradiation. Amino Acids, 2016, 48, 2855-2866.	1.2	8
16	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
17	Isomerization of Asp residues plays an important role in $\hat{\pm}$ A-crystallin dissociation. FEBS Journal, 2016, 283, 850-859.	2.2	21
18	Isomerization of aspartyl residues in crystallins and its influence upon cataract. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 183-191.	1.1	47

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19	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.	3.2	37
20	Site specific oxidation of amino acid residues in rat lens $\beta$ -crystallin induced by low-dose $\beta$ -irradiation. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 622-628.	1.0	13
21	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.	1.4	20
22	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.	1.4	4
23	Alpha B- and $\beta$ -crystallins containing d-Aspartic acids exist in a monomeric state. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1-9.	1.1	26
24	Simultaneous ultraviolet B-induced photo-oxidation of tryptophan/tyrosine and racemization of neighboring aspartyl residues in peptides. <i>Free Radical Biology and Medicine</i> , 2013, 65, 1037-1046.	1.3	14
25	Kinetics of Isomerization and Inversion of Aspartate 58 of $\beta$ -Crystallin Peptide Mimics under Physiological Conditions. <i>PLoS ONE</i> , 2013, 8, e58515.	1.1	40
26	Co-localisation of advanced glycation end products and d- $\beta$ -aspartic acid-containing proteins in gelatinous drop-like corneal dystrophy. <i>British Journal of Ophthalmology</i> , 2012, 96, 1127-1131.	2.1	6
27	A Rapid, Comprehensive Liquid Chromatography-Mass Spectrometry (LC-MS)-based Survey of the Asp Isomers in Crystallins from Human Cataract Lenses. <i>Journal of Biological Chemistry</i> , 2012, 287, 39992-40002.	1.6	76
28	Analysis of d- $\beta$ -Aspartyl Isomers at Specific Sites in Proteins. <i>Methods in Molecular Biology</i> , 2012, 794, 325-335.	0.4	0
29	Characterization of an antibody that recognizes peptides containing D- $\beta$ -aspartyl residues. <i>Molecular Vision</i> , 2012, 18, 996-1003.	1.1	2
30	Simultaneous Stereo-inversion and Isomerization at the Asp-4 Residue in $\beta$ -Crystallin from the Aged Human Eye Lenses. <i>Biochemistry</i> , 2011, 50, 8628-8635.	1.2	60
31	Determination of rate constants for $\beta$ -linkage isomerization of three specific aspartyl residues in recombinant human $\beta$ -crystallin protein by reversed-phase HPLC. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3240-3246.	1.2	8
32	UV B-irradiation enhances the racemization and isomerization of aspartyl residues and production of N $\epsilon$ -carboxymethyl lysine (CML) in keratin of skin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3303-3309.	1.2	28
33	d-Amino acids in aged proteins: Analysis and biological relevance. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3141-3147.	1.2	73
34	Pathological Role of D-amino Acid-Containing Proteins and Advanced Glycation End Products in the Development of Age-Related Macular Degeneration. <i>Anti-aging Medicine</i> , 2010, 7, 107-111.	0.7	12
35	Influence of $\beta$ -, $\beta$ - and $\beta$ -Asp isomers of the Asp-76 residue on the properties of $\beta$ -crystallin 70-88 peptide. <i>Amino Acids</i> , 2010, 39, 1393-1399.	1.2	32
36	Accumulation of D-Aspartic Acid-Containing Proteins in Age-Related Ocular Diseases. <i>Chemistry and Biodiversity</i> , 2010, 7, 1364-1370.	1.0	19

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37	Collapse of Homochirality of Amino Acids in Proteins from Various Tissues during Aging. <i>Chemistry and Biodiversity</i> , 2010, 7, 1389-1397.	1.0	36
38	Oxidative Stress Induces the Formation of D-Aspartyl Residues in the Elastin Mimic Peptides. <i>Chemistry and Biodiversity</i> , 2010, 7, 1408-1412.	1.0	12
39	Differentiation and Semiquantitative Analysis of an Isoaspartic Acid in Human $\hat{\pm}$ -Crystallin by Postsource Decay in a Curved Field Reflectron. <i>Analytical Chemistry</i> , 2010, 82, 6384-6394.	3.2	13
40	Localization of D- $\hat{2}$ -Aspartyl Residue-Containing Proteins in Various Tissues. <i>International Journal of Molecular Sciences</i> , 2009, 10, 1999-2009.	1.8	22
41	Differential rate constants of racemization of aspartyl and asparaginyl residues in human alpha A-crystallin mutants. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1192-1199.	1.1	14
42	Localization of D- $\hat{2}$ -Aspartic Acid-Containing Proteins in Human Eyes. , 2007, 48, 3923.		52
43	Kinetic study of racemization of aspartyl residues in recombinant human $\hat{\pm}$ A-crystallin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 800-806.	1.1	12
44	D-Amino Acid in Elderly Tissues. <i>Biological and Pharmaceutical Bulletin</i> , 2005, 28, 1585-1589.	0.6	98
45	Immunohistochemical study of chronological and photo-induced aging skins using the antibody raised against D -aspartyl residue-containing peptide. <i>Journal of Cutaneous Pathology</i> , 2004, 31, 51-56.	0.7	15
46	The damaging effect of UV-C irradiation on lens alpha-crystallin. <i>Molecular Vision</i> , 2004, 10, 814-20.	1.1	36
47	The presence of d- $\hat{2}$ -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.	1.0	96
48	D-amino acids in living higher organisms. <i>Origins of Life and Evolution of Biospheres</i> , 2002, 32, 103-127.	0.8	167
49	The mechanisms of simultaneous stereoinversion, racemization, and isomerization at specific aspartyl residues of aged lens proteins. <i>Mechanisms of Ageing and Development</i> , 1999, 107, 347-358.	2.2	44
50	d-Amino Acid Formation Induced by a Chiral Field within a Human Lens Protein during Aging. <i>Biochemical and Biophysical Research Communications</i> , 1999, 263, 322-326.	1.0	67
51	Formation of Four Isomers at the Asp-151 Residue of Aged Human $\hat{\pm}$ A-Crystallin by Natural Aging. <i>Biochemical and Biophysical Research Communications</i> , 1999, 265, 746-751.	1.0	61
52	The Conformation Formed by the Domain after Alanine-155 Induces Inversion of Aspartic Acid-151 in $\hat{\pm}$ A-Crystallin from Aged Human Lenses. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 918-923.	1.0	22
53	Specific Racemization and Isomerization of the Aspartyl Residue of $\hat{\pm}$ A-Crystallin Due to UV-B Irradiation. <i>Experimental Eye Research</i> , 1997, 65, 99-104.	1.2	34
54	Kinetic study of racemization of aspartyl residues in model peptides of $\hat{\pm}$ A-crystallin. <i>International Journal of Peptide and Protein Research</i> , 1996, 48, 118-122.	0.1	51

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55	Simultaneous Stereoinversion and Isomerization at Specific Aspartic Acid Residues in $\hat{\pm}$ A-Crystallin from Human Lens. Journal of Biochemistry, 1994, 116, 663-669.	0.9	187
56	The presence of free D-serine in rat brain. FEBS Letters, 1992, 296, 33-36.	1.3	400
57	<b>RACEMIZATION OF ASPARTIC ACIDS AT SPECIFIC SITES IN <math>\hat{\pm}</math>A-CRYSTALLIN FROM AGED HUMAN LENS</b> . Biomedical Research, 1991, 12, 315-321.	0.3	26
58	<b>RACEMIZATION OF ASPARTIC ACID IN <math>\hat{\pm}</math>A-CRYSTALLIN OF BOVINE LENS</b> . Biomedical Research, 1991, 12, 61-64.	0.3	7
59	D-amino acid in irradiated and aged mouse.. Journal of Radiation Research, 1986, 27, 183-190.	0.8	8