

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	The presence of free D-serine in rat brain. FEBS Letters, 1992, 296, 33-36.	1.3	400
2	Simultaneous Stereoinversion and Isomerization at Specific Aspartic Acid Residues in $\hat{1}\pm$ A-Crystallin from Human Lens. Journal of Biochemistry, 1994, 116, 663-669.	0.9	187
3	D-amino acids in living higher organisms. Origins of Life and Evolution of Biospheres, 2002, 32, 103-127.	0.8	167
4	D-Amino Acid in Elderly Tissues. Biological and Pharmaceutical Bulletin, 2005, 28, 1585-1589.	0.6	98
5	The presence of d- $\hat{1}^2$ -aspartic acid-containing peptides in elastic fibers of sun-damaged skin: a potent marker for ultraviolet-induced skin aging. Biochemical and Biophysical Research Communications, 2002, 294, 1047-1051.	1.0	96
6	A Rapid, Comprehensive Liquid Chromatography-Mass Spectrometry (LC-MS)-based Survey of the Asp Isomers in Crystallins from Human Cataract Lenses. Journal of Biological Chemistry, 2012, 287, 39992-40002.	1.6	76
7	d-Amino acids in aged proteins: Analysis and biological relevance. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3141-3147.	1.2	73
8	d-Amino Acid Formation Induced by a Chiral Field within a Human Lens Protein during Aging. Biochemical and Biophysical Research Communications, 1999, 263, 322-326.	1.0	67
9	Formation of Four Isomers at the Asp-151 Residue of Aged Human $\hat{1}\pm$ A-Crystallin by Natural Aging. Biochemical and Biophysical Research Communications, 1999, 265, 746-751.	1.0	61
10	Simultaneous Stereoinversion and Isomerization at the Asp-4 Residue in $\hat{1}^2$ B2-Crystallin from the Aged Human Eye Lenses. Biochemistry, 2011, 50, 8628-8635.	1.2	60
11	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
12	Localization of D- $\hat{1}^2$ -Aspartic Acid-Containing Proteins in Human Eyes. , 2007, 48, 3923.		52
13	Kinetic study of racemization of aspartyl residues in model peptides of $\hat{1}\pm$ A-crystallin. International Journal of Peptide and Protein Research, 1996, 48, 118-122.	0.1	51
14	Isomerization of aspartyl residues in crystallins and its influence upon cataract. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 183-191.	1.1	47
15	The mechanisms of simultaneous stereoinversion, racemization, and isomerization at specific aspartyl residues of aged lens proteins. Mechanisms of Ageing and Development, 1999, 107, 347-358.	2.2	44
16	Kinetics of Isomerization and Inversion of Aspartate 58 of $\hat{1}\pm$ A-Crystallin Peptide Mimics under Physiological Conditions. PLoS ONE, 2013, 8, e58515.	1.1	40
17	Rapid Survey of Four Asp Isomers in Disease-Related Proteins by LC-MS combined with Commercial Enzymes. Analytical Chemistry, 2015, 87, 561-568.	3.2	37
18	Collapse of Homochirality of Amino Acids in Proteins from Various Tissues during Aging. Chemistry and Biodiversity, 2010, 7, 1389-1397.	1.0	36

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19	The damaging effect of UV-C irradiation on lens alpha-crystallin. <i>Molecular Vision</i> , 2004, 10, 814-20.	1.1	36
20	Specific Racemization and Isomerization of the Aspartyl Residue of $\hat{1}\pm$ A-Crystallin Due to UV-B Irradiation. <i>Experimental Eye Research</i> , 1997, 65, 99-104.	1.2	34
21	Influence of $\hat{1}^2$ -, $d\hat{1}^2$ - and $d\hat{1}^2$ -Asp isomers of the Asp-76 residue on the properties of $\hat{1}\pm$ A-crystallin 70â€88 peptide. <i>Amino Acids</i> , 2010, 39, 1393-1399.	1.2	32
22	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.	1.6	32
23	UV B-irradiation enhances the racemization and isomerization of aspartyl residues and production of N \hat{E} -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
24	Alpha B- and $\hat{1}^2$ A3-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
25	RACEMIZATION OF ASPARTIC ACIDS AT SPECIFIC SITES IN $\hat{1}\pm$A-CRYSTALLIN FROM AGED HUMAN LENS . <i>Biomedical Research</i> , 1991, 12, 315-321.	0.3	26
26	The Conformation Formed by the Domain after Alanine-155 Induces Inversion of Aspartic Acid-151 in $\hat{1}\pm$ A-Crystallin from Aged Human Lenses. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 918-923.	1.0	22
27	Localization of D- $\hat{1}^2$ -Aspartyl Residue-Containing Proteins in Various Tissues. <i>International Journal of Molecular Sciences</i> , 2009, 10, 1999-2009.	1.8	22
28	Isomerization of Asp residues plays an important role in $\hat{1}\pm$ A \hat{E} -crystallin dissociation. <i>FEBS Journal</i> , 2016, 283, 850-859.	2.2	21
29	Identification of $\acute{1}$...-amino acid-containing peptides in human serum. <i>PLoS ONE</i> , 2017, 12, e0189972.	1.1	21
30	Quantitative analysis of isomeric (l- $\hat{1}\pm$ -, l- $\hat{1}^2$ -, d- $\hat{1}\pm$ -, d- $\hat{1}^2$ -) aspartyl residues in proteins from elderly donors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 25-33.	1.4	20
31	Accumulation of D -Aspartic Acid-Containing Proteins in Age-Related Ocular Diseases. <i>Chemistry and Biodiversity</i> , 2010, 7, 1364-1370.	1.0	19
32	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
33	Identification of Isomeric Aspartate residues in $\hat{1}^2$ B2-crystallin from Aged Human Lens. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 767-774.	1.1	15
34	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
35	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
36	Ferulic Acid Suppresses Amyloid $\hat{1}^2$ Production in the Human Lens Epithelial Cell Stimulated with Hydrogen Peroxide. <i>BioMed Research International</i> , 2017, 2017, 1-9.	0.9	14

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37	Differentiation and Semiquantitative Analysis of an Isoaspartic Acid in Human β -Crystallin by Postsource Decay in a Curved Field Reflectron. <i>Analytical Chemistry</i> , 2010, 82, 6384-6394.	3.2	13
38	Site specific oxidation of amino acid residues in rat lens β -crystallin induced by low-dose β -irradiation. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 622-628.	1.0	13
39	Kinetic study of racemization of aspartyl residues in recombinant human β -crystallin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 800-806.	1.1	12
40	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
41	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
42	Asp isomerization increases aggregation of β -crystallin and decreases its chaperone activity in human lens of various ages. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140446.	1.1	10
43	Negative charge at aspartate 151 is important for human lens β -crystallin stability and chaperone function. <i>Experimental Eye Research</i> , 2019, 182, 10-18.	1.2	9
44	A single Asp isomer substitution in an β -crystallin-derived peptide induces a large change in peptide properties. <i>Experimental Eye Research</i> , 2020, 192, 107930.	1.2	9
45	D-amino acid in irradiated and aged mouse.. <i>Journal of Radiation Research</i> , 1986, 27, 183-190.	0.8	8
46	Determination of rate constants for β -linkage isomerization of three specific aspartyl residues in recombinant human β -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
47	One-shot LC-MS/MS analysis of post-translational modifications including oxidation and deamidation of rat lens β - and β -crystallins induced by β -irradiation. <i>Amino Acids</i> , 2016, 48, 2855-2866.	1.2	8
48	Asp 58 modulates lens β -crystallin oligomer formation and chaperone function. <i>FEBS Journal</i> , 2018, 285, 2263-2277.	2.2	7
49	RACEMIZATION OF ASPARTIC ACID IN β-CRYSTALLIN OF BOVINE LENS . <i>Biomedical Research</i> , 1991, 12, 61-64.	0.3	7
50	Co-localisation of advanced glycation end products and d- β -aspartic acid-containing proteins in gelatinous drop-like corneal dystrophy. <i>British Journal of Ophthalmology</i> , 2012, 96, 1127-1131.	2.1	6
51	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.	1.6	5
52	Effect of Asp 96 isomerization on the properties of a lens β -crystallin-derived short peptide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 139-144.	1.4	4
53	Site-specific rapid deamidation and isomerization in human lens β -crystallin in vitro. <i>Protein Science</i> , 2020, 29, 941-951.	3.1	4
54	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

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55	Age-related isomerization of Asp in human immunoglobulin G kappa chain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140410.	1.1	3
56	Isomerization of Asp is essential for assembly of amyloid-like fibrils of $\hat{1}\pm$ A-crystallin-derived peptide. <i>PLoS ONE</i> , 2021, 16, e0250277.	1.1	2
57	Characterization of an antibody that recognizes peptides containing D- $\hat{1}^2$ -aspartyl residues. <i>Molecular Vision</i> , 2012, 18, 996-1003.	1.1	2
58	Analysis of d- $\hat{1}^2$ -Aspartyl Isomers at Specific Sites in Proteins. <i>Methods in Molecular Biology</i> , 2012, 794, 325-335.	0.4	0
59	The Importance of the Idea of "Parachirality" in Life Science. , 2017, , 119-131.		0