Seisuke Kimura

List of Publications by Year
in descending order

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102 papers	4,819 citations	126858 33 h-index	110317 64 g-index
108 all docs	108 docs citations	108 times ranked	5619 citing authors

#	Article	IF	Citations
1	The genome of the stress-tolerant wild tomato species Solanum pennellii. Nature Genetics, 2014, 46, 1034-1038.	9.4	391
2	Comparative transcriptomics reveals patterns of selection in domesticated and wild tomato. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2655-62.	3.3	325
3	Titanium dioxide nanoparticles (TiO2 NPs) promote growth and ameliorate salinity stress effects on essential oil profile and biochemical attributes of Dracocephalum moldavica. Scientific Reports, 2020, 10, 912.	1.6	289
4	Mechanical Regulation of Auxin-Mediated Growth. Current Biology, 2012, 22, 1468-1476.	1.8	205
5	Natural Variation in Leaf Morphology Results from Mutation of a Novel KNOX Gene. Current Biology, 2008, 18, 672-677.	1.8	192
6	Arabidopsis COP10 forms a complex with DDB1 and DET1 in vivo and enhances the activity of ubiquitin conjugating enzymes. Genes and Development, 2004, 18, 2172-2181.	2.7	186
7	ATMâ€mediated phosphorylation of SOG1 is essential for the DNA damage response in Arabidopsis. EMBO Reports, 2013, 14, 817-822.	2.0	154
8	DNA Repair in Plants. Chemical Reviews, 2006, 106, 753-766.	23.0	149
9	A High-Throughput Method for Illumina RNA-Seq Library Preparation. Frontiers in Plant Science, 2012, 3, 202.	1.7	145
10	DNA Damage Response in Plants: Conserved and Variable Response Compared to Animals. Biology, 2013, 2, 1338-1356.	1.3	128
11	Tomato (Solanum lycopersicum): A Model Fruit-Bearing Crop. Cold Spring Harbor Protocols, 2008, 2008, pdb.emo105.	0.2	127
12	Analgesic effect of intrathecally administered nociceptin, an opioid receptor-like1 receptor agonist, in the rat formalin test. Neuroscience, 1997, 81, 249-254.	1.1	126
13	Interspecific RNA Interference of SHOOT MERISTEMLESS-Like Disrupts Cuscuta pentagona Plant Parasitism. Plant Cell, 2012, 24, 3153-3166.	3.1	124
14	Chemical hijacking of auxin signaling with an engineered auxinâ€“TIR1 pair. Nature Chemical Biology, 2018, 14, 299-305.	3.9	107
15	Regulation of the KNOX-GA Gene Module Induces Heterophyllic Alteration in North American Lake Cress. Plant Cell, 2014, 26, 4733-4748.	3.1	97
16	Plant DNA polymerase Î», a DNA repair enzyme that functions in plant meristematic and meiotic tissues. FEBS Journal, 2004, 271, 2799-2807.	0.2	92
17	DNA repair in higher plants; photoreactivation is the major DNA repair pathway in non-proliferating cells while excision repair (nucleotide excision repair and base excision repair) is active in proliferating cells. Nucleic Acids Research, 2004, 32, 2760-2767.	6.5	91
18	The role of SOG1, a plant-specific transcriptional regulator, in the DNA damage response. Plant Signaling and Behavior, 2014, 9, e28889.	1.2	70

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19	A novel DNA polymerase homologous to Escherichia coli DNA polymerase I from a higher plant, rice (Oryza sativa L.). Nucleic Acids Research, 2002, 30, 1585-1592.	6.5	63
20	How Do Plants and Phytohormones Accomplish Heterophylly, Leaf Phenotypic Plasticity, in Response to Environmental Cues. Frontiers in Plant Science, 2017, 8, 1717.	1.7	58
21	Increased Phosphorylation of Ser-Gln Sites on SUPPRESSOR OF GAMMA RESPONSE1 Strengthens the DNA Damage Response in Arabidopsis thaliana. Plant Cell, 2017, 29, 3255-3268.	3.1	54
22	Heterophylly: Phenotypic Plasticity of Leaf Shape in Aquatic and Amphibious Plants. Plants, 2019, 8, 420.	1.6	54
23	Two types of replication protein A 70 kDa subunit in rice, Oryza sativa : molecular cloning, characterization, and cellular & tissue distribution. Gene, 2001, 272, 335-343.	1.0	53
24	Fine genetic mapping of RXopJ4, a bacterial spot disease resistance locus from Solanum pennellii LA716. Theoretical and Applied Genetics, 2013, 126, 601-609.	1.8	51
25	Plastid DNA polymerases from higher plants, Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2005, 334, 43-50.	1.0	50
26	Characterization and localization of Î±-connectin (titin 1): An elastic protein isolated from rabbit skeletal muscle. Journal of Muscle Research and Cell Motility, 1992, 13, 39-47.	0.9	46
27	A Higher Plant Has Three Different Types of RPA Heterotrimeric Complex. Journal of Biochemistry, 2006, 139, 99-104.	0.9	45
28	Coordination of leaf development via regulation of KNOX1 genes. Journal of Plant Research, 2010, 123, 7-14.	1.2	44
29	Characterization of all the subunits of replication factor C from a higher plant, rice (Oryza sativa L.), and their relation to development. Plant Molecular Biology, 2003, 53, 15-25.	2.0	43
30	Characterization of plant proliferating cell nuclear antigen (PCNA) and flap endonuclease-1 (FEN-1), and their distribution in mitotic and meiotic cell cycles. Plant Journal, 2002, 28, 643-653.	2.8	42
31	Biochemical properties of a plastidial DNA polymerase of rice. Plant Molecular Biology, 2007, 64, 601-611.	2.0	42
32	Unraveling Low-Level Gamma Radiation-Responsive Changes in Expression of Early and Late Genes in Leaves of Rice Seedlings at Iitate Village, Fukushima. Journal of Heredity, 2014, 105, 723-738.	1.0	41
33	Plant homologue of flap endonuclease-1: molecular cloning, characterization, and evidence of expression in meristematic tissues. Plant Molecular Biology, 2000, 42, 415-427.	2.0	38
34	Two types of replication protein A in seed plants. FEBS Journal, 2005, 272, 3270-3281.	2.2	37
35	Rice UV-damaged DNA binding protein homologues are most abundant in proliferating tissues. Gene, 2003, 308, 79-87.	1.0	33
36	A case of bullous pemphigoid with antidesmoplakin autoantibodies. British Journal of Dermatology, 1994, 131, 694-699.	1.4	32

#	Article	IF	Citations
37	Characterization of T-DNA Insertion Mutants and RNAi Silenced Plants of Arabidopsis thaliana UV-damaged DNA Binding Protein 2 (AtUV-DDB2). Plant Molecular Biology, 2006, 61, 227-240.	2.0	32
38	OsSEND-1: a new RAD2 nuclease family member in higher plants. Plant Molecular Biology, 2003, 51, 59-70.	2.0	31
39	Purification and characterization of a 100ÂkDa DNA polymerase from cauliflower inflorescence. Biochemical Journal, 1998, 332, 557-563.	1.7	29
40	Functional characterization of two flap endonuclease-1 homologues in rice. Gene, 2003, 314, 63-71.	1.0	29
41	Interaction between proliferating cell nuclear antigen (PCNA) and a DnaJ induced by DNA damage. Journal of Plant Research, 2005, 118, 91-97.	1.2	29
42	Multichromosomal structure of the onion mitochondrial genome and a transcript analysis. Mitochondrion, 2019, 46, 179-186.	1.6	29
43	Isolation of Î±-Connectin, an Elastic Protein, from Rabbit Skeletal Muscle1. Journal of Biochemistry, 1989, 106, 952-954.	0.9	28
44	Characterization of DNA polymerase Î´ from a higher plant, rice (Oryza sativa L.). Gene, 2002, 295, 19-26.	1.0	27
45	Spatial distribution of the 26S proteasome in meristematic tissues and primordia of rice (Oryza sativa) Tj ETQq1 1 0.784314 rgBT /Over	1.6	27
46	Plant Temperature Sensors. Sensors, 2018, 18, 4365.	2.1	27
47	Molecular cloning and characterization of a plant homologue of the origin recognition complex 1 (ORC1). Plant Science, 2000, 158, 33-39.	1.7	26
48	Reprogramming of the Developmental Program of Rhus javanica During Initial Stage of Gall Induction by Schlechtendalia chinensis. Frontiers in Plant Science, 2020, 11, 471.	1.7	25
49	Ribosome slowdown triggers codonâ€mediated mRNA decay independently of ribosome qualityâ€‰control. EMBO Journal, 2022, 41, e109256.	3.5	25
50	A structure-specific endonuclease from cauliflower (Brassica oleracea var. botrytis) inflorescence. Nucleic Acids Research, 1997, 25, 4970-4976.	6.5	24
51	Transcriptional, Posttranscriptional, and Posttranslational Regulation of SHOOT MERISTEMLESS Gene Expression in Arabidopsis Determines Gene Function in the Shoot Apex. Plant Physiology, 2015, 167, 424-442.	2.3	24
52	Deceleration of the cell cycle underpins a switch from proliferative to terminal divisions in plant stomatal lineage. Developmental Cell, 2022, 57, 569-582.e6.	3.1	24
53	Comparative transcriptome analysis of galls from four different host plants suggests the molecular mechanism of gall development. PLoS ONE, 2019, 14, e0223686.	1.1	23
54	Characterization of Rad6 from a higher plant, rice (Oryza sativa L.) and its interaction with Sgt1, a subunit of the SCF ubiquitin ligase complex. Biochemical and Biophysical Research Communications, 2004, 314, 434-439.	1.0	22

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55	Toward elucidating the mechanisms that regulate heterophylly. Plant Morphology, 2012, 24, 57-63.	0.1	21
56	DmGEN, a novel RAD2 family endo-exonuclease from Drosophila melanogaster. Nucleic Acids Research, 2004, 32, 6251-6259.	6.5	20
57	Propofol EDTA and Reduced Incidence of Infection. Anaesthesia and Intensive Care, 2006, 34, 362-368.	0.2	20
58	Comparative transcriptomics with self-organizing map reveals cryptic photosynthetic differences between two accessions of North American Lake cress. Scientific Reports, 2018, 8, 3302.	1.6	19
59	ERdj3B-Mediated Quality Control Maintains Anther Development at High Temperatures. Plant Physiology, 2020, 182, 1979-1990.	2.3	19
60	Metabolism of Glucosylsucrose and Maltosylsucrose by Streptococcus mutans. Caries Research, 1980, 14, 239-247.	0.9	17
61	DmGEN shows a flap endonuclease activity, cleaving the blockedâ€flap structure and model replication fork. FEBS Journal, 2007, 274, 3914-3927.	2.2	17
62	A new meiotic endonuclease from Coprinus meiocytes. BBA - Proteins and Proteomics, 1997, 1342, 205-216.	2.1	16
63	Characterization of the origin recognition complex (ORC) from a higher plant, rice (Oryza sativa L.). Gene, 2005, 353, 23-30.	1.0	16
64	Characterization of four RecQ homologues from rice (Oryza sativa L. cv. Nipponbare). Biochemical and Biophysical Research Communications, 2006, 345, 1283-1291.	1.0	15
65	Surface hardening of age-hardenable Cuâ€“Ti dilute alloys by plasma nitriding. Surface and Coatings Technology, 2014, 258, 691-698.	2.2	15
66	Impact of Autophagy on Gene Expression and Tapetal Programmed Cell Death During Pollen Development in Rice. Frontiers in Plant Science, 2020, 11, 172.	1.7	15
67	Characterization of Î±-helix structures in polypeptides, revealed by 13Cî˜…Oâ‹¯Hâ€“15N hydrogen bond lengths determined by 13C REDOR NMR. Journal of Molecular Structure, 2001, 562, 197-203.	1.8	14
68	Proliferating cell nuclear antigen from a basidiomycete, Coprinus cinereus. FEBS Journal, 2002, 269, 164-174.	0.2	14
69	Degradation of proliferating cell nuclear antigen by 26S proteasome in rice (Oryza sativa L.). Planta, 2004, 218, 640-646.	1.6	14
70	Tomato Transformation: Figure 1.. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5084.	0.2	14
71	Detection of the Cell Proliferation Zone in Leaves by Using EdU. Bio-protocol, 2015, 5, .	0.2	13
72	Higher plant RecA-like protein is homologous to RadA. DNA Repair, 2006, 5, 80-88.	1.3	11

#	Article	IF	Citations
73	A Developmental Model for Branching Morphogenesis of Lake Cress Compound Leaf. PLoS ONE, 2014, 9, e111615.	1.1	11
74	A GLABRA1 ortholog on LG A9 controls trichome number in the Japanese leafy vegetables Mizuna and Mibuna (Brassica rapa L. subsp. nipposinica L. H. Bailey): evidence from QTL analysis. Journal of Plant Research, 2017, 130, 539-550.	1.2	11
75	Molecular Basis for Natural Vegetative Propagation via Regeneration in North American Lake Cress, Rorippa aquatica (Brassicaceae). Plant and Cell Physiology, 2020, 61, 353-369.	1.5	11
76	Leaves may function as temperature sensors in the heterophylly of Rorippa aquatica (Brassicaceae). Plant Signaling and Behavior, 2015, 10, e1091909.	1.2	10
77	SUPPRESSOR OF GAMMA RESPONSE 1 acts as a regulator coordinating crosstalk between DNA damage response and immune response in Arabidopsis thaliana. Plant Molecular Biology, 2020, 103, 321-340.	2.0	10
78	The Natural History of Acute Disseminated Leukoencephalitis. A Serial Magnetic Resonance Imaging Study. Neuropediatrics, 1992, 23, 192-195.	0.3	9
79	An ATP-inhibited endonuclease from cauliflower (Brassica oleracea var. botrytis) inflorescence: purification and characterization. Planta, 1998, 206, 641-648.	1.6	9
80	Coprinus cinereus DNA ligase I during meiotic development. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1627, 47-55.	2.4	9
81	How to Grow Tomatoes. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5081.	0.2	9
82	Molecular Phylogeny Determined Using Chloroplast DNA Inferred a New Phylogenetic Relationship of <i>Rorippa aquatica</i> (Eaton) EJ Palmer & Steyermark (Brassicaceae)â€”Lake Cress. American Journal of Plant Sciences, 2014, 05, 48-54.	0.3	9
83	Combination of genetic analysis and ancient literature survey reveals the divergence of traditional Brassica rapa varieties from Kyoto, Japan. Horticulture Research, 2021, 8, 132.	2.9	9
84	Interaction between proliferating cell nuclear antigen and JUN-activation-domain-binding proteinÂ1 in the meristem of rice, Oryza sativa L.. Planta, 2003, 217, 175-183.	1.6	8
85	Ser-Gln sites of SOG1 are rapidly hyperphosphorylated in response to DNA double-strand breaks. Plant Signaling and Behavior, 2018, 13, e1477904.	1.2	8
86	Establishment of an Agrobacterium mediated transformation protocol for the detection of cytokinin in the heterophyllous plant Hygrophila difformis (Acanthaceae). Plant Cell Reports, 2020, 39, 737-750.	2.8	8
87	A Decrease in Ambient Temperature Induces Post-Mitotic Enlargement of Palisade Cells in North American Lake Cress. PLoS ONE, 2015, 10, e0141247.	1.1	8
88	Cell Cycle Regulation through Ubiquitin/Proteasome-Mediated Proteolysis in Plants. Japan Agricultural Research Quarterly, 2005, 39, 1-4.	0.1	8
89	Tropomodulin isolated from rabbit skeletal muscle inhibits filament formation of actin in the presence of tropomyosin and troponin. FEBS Journal, 1999, 263, 396-401.	0.2	7
90	A plant homologue of 36 kDa subunit of replication factor C: molecular cloning and characterization. Plant Science, 2001, 161, 99-106.	1.7	7

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91	Expression of flap endonuclease-1 during meiosis in a basidiomycete, Coprinus cinereus. Fungal Genetics and Biology, 2004, 41, 493-500.	0.9	7
92	DNA Repair Mechanisms in UV-B Tolerant Plants. Japan Agricultural Research Quarterly, 2006, 40, 107-113.	0.1	7
93	The expression of the rice (Oryza sativa L.) homologue of Snm1 is induced by DNA damages. Biochemical and Biophysical Research Communications, 2005, 329, 668-672.	1.0	6
94	Crossing Tomato Plants. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5082.	0.2	6
95	Root-knot nematodes modulate cell walls during root-knot formation in Arabidopsis roots. Journal of Plant Research, 2020, 133, 419-428.	1.2	6
96	Site-directed mutational analysis of structural interactions of low molecule compounds binding to the N-terminal 8kDa domain of DNA polymerase Î². Biochemical and Biophysical Research Communications, 2006, 350, 7-16.	1.0	5
97	Grafting Tomato Plants. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5083-pdb.prot5083.	0.2	5
98	Asymmetries in leaf branch are associated with differential speeds along growth axes: A theoretical prediction. Developmental Dynamics, 2017, 246, 981-991.	0.8	5
99	SOG1, a plantâ€specific master regulator of DNA damage responses, originated from nonvascular land plants. Plant Direct, 2021, 5, e370.	0.8	5
100	Developmental analyses of divarications in leaves of an aquatic fern Microsorum pteropus and its varieties. PLoS ONE, 2019, 14, e0210141.	1.1	2
101	Molecular and Biochemical Differences in Leaf Explants and the Implication for Regeneration Ability in Rorippa aquatica (Brassicaceae). Plants, 2020, 9, 1372.	1.6	2
102	Reduction in organâ€“organ friction is critical for corolla elongation in morning glory. Communications Biology, 2021, 4, 285.	2.0	2