

# Seisuke Kimura

## List of Publications by Citations

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102  
papers

3,521  
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31  
h-index

56  
g-index

108  
ext. papers

4,241  
ext. citations

6.1  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
102	The genome of the stress-tolerant wild tomato species <i>Solanum pennellii</i> . <i>Nature Genetics</i> , <b>2014</b> , 46, 1034-8	36.3	269
101	Comparative transcriptomics reveals patterns of selection in domesticated and wild tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2655-62	11.5	260
100	<i>Arabidopsis</i> COP10 forms a complex with DDB1 and DET1 in vivo and enhances the activity of ubiquitin conjugating enzymes. <i>Genes and Development</i> , <b>2004</b> , 18, 2172-81	12.6	159
99	Mechanical regulation of auxin-mediated growth. <i>Current Biology</i> , <b>2012</b> , 22, 1468-76	6.3	154
98	Titanium dioxide nanoparticles (TiO NPs) promote growth and ameliorate salinity stress effects on essential oil profile and biochemical attributes of <i>Dracocephalum moldavica</i> . <i>Scientific Reports</i> , <b>2020</b> , 10, 912	4.9	147
97	Natural variation in leaf morphology results from mutation of a novel KNOX gene. <i>Current Biology</i> , <b>2008</b> , 18, 672-7	6.3	132
96	DNA repair in plants. <i>Chemical Reviews</i> , <b>2006</b> , 106, 753-66	68.1	128
95	Analgesic effect of intrathecally administered nociceptin, an opioid receptor-like1 receptor agonist, in the rat formalin test. <i>Neuroscience</i> , <b>1997</b> , 81, 249-54	3.9	116
94	ATM-mediated phosphorylation of SOG1 is essential for the DNA damage response in <i>Arabidopsis</i> . <i>EMBO Reports</i> , <b>2013</b> , 14, 817-22	6.5	103
93	A High-Throughput Method for Illumina RNA-Seq Library Preparation. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 202	6.2	102
92	Interspecific RNA interference of SHOOT MERISTEMLESS-like disrupts <i>Cuscuta pentagona</i> plant parasitism. <i>Plant Cell</i> , <b>2012</b> , 24, 3153-66	11.6	100
91	DNA damage response in plants: conserved and variable response compared to animals. <i>Biology</i> , <b>2013</b> , 2, 1338-56	4.9	98
90	Plant DNA polymerase lambda, a DNA repair enzyme that functions in plant meristematic and meiotic tissues. <i>FEBS Journal</i> , <b>2004</b> , 271, 2799-807		86
89	Tomato ( <i>Solanum lycopersicum</i> ): A Model Fruit-Bearing Crop. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.emo105	1.2	81
88	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. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 2760-7	20.1	76
87	Chemical hijacking of auxin signaling with an engineered auxin-TIR1 pair. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 299-305	11.7	66
86	Regulation of the KNOX-GA gene module induces heterophyllic alteration in North American lake cress. <i>Plant Cell</i> , <b>2014</b> , 26, 4733-48	11.6	60

85	A novel DNA polymerase homologous to Escherichia coli DNA polymerase I from a higher plant, rice ( <i>Oryza sativa</i> L.). <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 1585-92	20.1	55
84	The role of SOG1, a plant-specific transcriptional regulator, in the DNA damage response. <i>Plant Signaling and Behavior</i> , <b>2014</b> , 9, e28889	2.5	52
83	Two types of replication protein A 70 kDa subunit in rice, <i>Oryza sativa</i> : molecular cloning, characterization, and cellular & tissue distribution. <i>Gene</i> , <b>2001</b> , 272, 335-43	3.8	47
82	Plastid DNA polymerases from higher plants, <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 334, 43-50	3.4	43
81	Characterization of plant proliferating cell nuclear antigen (PCNA) and flap endonuclease-1 (FEN-1), and their distribution in mitotic and meiotic cell cycles. <i>Plant Journal</i> , <b>2001</b> , 28, 643-53	6.9	41
80	A higher plant has three different types of RPA heterotrimeric complex. <i>Journal of Biochemistry</i> , <b>2006</b> , 139, 99-104	3.1	40
79	Fine genetic mapping of RXopJ4, a bacterial spot disease resistance locus from <i>Solanum pennellii</i> LA716. <i>Theoretical and Applied Genetics</i> , <b>2013</b> , 126, 601-9	6	37
78	Coordination of leaf development via regulation of KNOX1 genes. <i>Journal of Plant Research</i> , <b>2010</b> , 123, 7-14	2.6	37
77	Characterization and localization of alpha-connectin (titin 1): an elastic protein isolated from rabbit skeletal muscle. <i>Journal of Muscle Research and Cell Motility</i> , <b>1992</b> , 13, 39-47	3.5	37
76	Biochemical properties of a plastidial DNA polymerase of rice. <i>Plant Molecular Biology</i> , <b>2007</b> , 64, 601-11	4.6	34
75	Two types of replication protein A in seed plants. <i>FEBS Journal</i> , <b>2005</b> , 272, 3270-81	5.7	34
74	Plant homologue of flap endonuclease-1: molecular cloning, characterization, and evidence of expression in meristematic tissues. <i>Plant Molecular Biology</i> , <b>2000</b> , 42, 415-27	4.6	34
73	Unraveling low-level gamma radiation--responsive changes in expression of early and late genes in leaves of rice seedlings at Iitate Village, Fukushima. <i>Journal of Heredity</i> , <b>2014</b> , 105, 723-38	2.4	32
72	How Do Plants and Phytohormones Accomplish Heterophylly, Leaf Phenotypic Plasticity, in Response to Environmental Cues. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1717	6.2	32
71	Rice UV-damaged DNA binding protein homologues are most abundant in proliferating tissues. <i>Gene</i> , <b>2003</b> , 308, 79-87	3.8	30
70	A case of bullous pemphigoid with antidesmoplakin autoantibodies. <i>British Journal of Dermatology</i> , <b>1994</b> , 131, 694-9	4	29
69	Characterization of T-DNA insertion mutants and RNAi silenced plants of <i>Arabidopsis thaliana</i> UV-damaged DNA binding protein 2 ( <i>AtUV-DDB2</i> ). <i>Plant Molecular Biology</i> , <b>2006</b> , 61, 227-40	4.6	28
68	Increased Phosphorylation of Ser-Gln Sites on SUPPRESSOR OF GAMMA RESPONSE1 Strengthens the DNA Damage Response in. <i>Plant Cell</i> , <b>2017</b> , 29, 3255-3268	11.6	27

67	OsSEND-1: a new RAD2 nuclease family member in higher plants. <i>Plant Molecular Biology</i> , <b>2003</b> , 51, 59-70.	4.6	27
66	Interaction between proliferating cell nuclear antigen (PCNA) and a DnaJ induced by DNA damage. <i>Journal of Plant Research</i> , <b>2005</b> , 118, 91-7	2.6	26
65	Characterization of DNA polymerase delta from a higher plant, rice ( <i>Oryza sativa</i> L.). <i>Gene</i> , <b>2002</b> , 295, 19-26	3.8	26
64	Molecular cloning and characterization of a plant homologue of the origin recognition complex 1 (ORC1). <i>Plant Science</i> , <b>2000</b> , 158, 33-39	5.3	26
63	Purification and characterization of a 100 kDa DNA polymerase from cauliflower inflorescence. <i>Biochemical Journal</i> , <b>1998</b> , 332 ( Pt 2), 557-63	3.8	26
62	Functional characterization of two flap endonuclease-1 homologues in rice. <i>Gene</i> , <b>2003</b> , 314, 63-71	3.8	25
61	A structure-specific endonuclease from cauliflower ( <i>Brassica oleracea</i> var. botrytis) inflorescence. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 4970-6	20.1	21
60	Characterization of all the subunits of replication factor C from a higher plant, rice ( <i>Oryza sativa</i> L.), and their relation to development. <i>Plant Molecular Biology</i> , <b>2003</b> , 53, 15-25	4.6	21
59	Plant Temperature Sensors. <i>Sensors</i> , <b>2018</b> , 18,	3.8	21
58	Heterophylly: Phenotypic Plasticity of Leaf Shape in Aquatic and Amphibious Plants. <i>Plants</i> , <b>2019</b> , 8,	4.5	20
57	Isolation of alpha-connectin, an elastic protein, from rabbit skeletal muscle. <i>Journal of Biochemistry</i> , <b>1989</b> , 106, 952-4	3.1	20
56	DmGEN, a novel RAD2 family endo-exonuclease from <i>Drosophila melanogaster</i> . <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 6251-9	20.1	19
55	Characterization of Rad6 from a higher plant, rice ( <i>Oryza sativa</i> L.) and its interaction with Sgt1, a subunit of the SCF ubiquitin ligase complex. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 314, 434-9	3.4	19
54	Toward elucidating the mechanisms that regulate heterophylly. <i>Plant Morphology</i> , <b>2012</b> , 24, 57-63	0	18
53	Characterization of the origin recognition complex (ORC) from a higher plant, rice ( <i>Oryza sativa</i> L.). <i>Gene</i> , <b>2005</b> , 353, 23-30	3.8	16
52	Propofol EDTA and reduced incidence of infection. <i>Anaesthesia and Intensive Care</i> , <b>2006</b> , 34, 362-8	1.1	16
51	DmGEN shows a flap endonuclease activity, cleaving the blocked-flap structure and model replication fork. <i>FEBS Journal</i> , <b>2007</b> , 274, 3914-27	5.7	15
50	Characterization of four RecQ homologues from rice ( <i>Oryza sativa</i> L. cv. Nipponbare). <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 345, 1283-91	3.4	15

49	Multichromosomal structure of the onion mitochondrial genome and a transcript analysis. <i>Mitochondrion</i> , <b>2019</b> , 46, 179-186	4.9	14
48	Proliferating cell nuclear antigen from a basidiomycete, <i>Coprinus cinereus</i> . Alternative truncation and expression in meiosis. <i>FEBS Journal</i> , <b>2002</b> , 269, 164-74		14
47	Transcriptional, posttranscriptional, and posttranslational regulation of SHOOT MERISTEMLESS gene expression in <i>Arabidopsis</i> determines gene function in the shoot apex. <i>Plant Physiology</i> , <b>2015</b> , 167, 424-42	6.6	13
46	A new meiotic endonuclease from <i>Coprinus</i> meiocytes. <i>BBA - Proteins and Proteomics</i> , <b>1997</b> , 1342, 205-16		13
45	Degradation of proliferating cell nuclear antigen by 26S proteasome in rice ( <i>Oryza sativa</i> L.). <i>Planta</i> , <b>2004</b> , 218, 640-6	4.7	12
44	Reprogramming of the Developmental Program of During Initial Stage of Gall Induction by. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 471	6.2	11
43	Comparative transcriptome analysis of galls from four different host plants suggests the molecular mechanism of gall development. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223686	3.7	11
42	Surface hardening of age-hardenable Cu <sub>31</sub> dilute alloys by plasma nitriding. <i>Surface and Coatings Technology</i> , <b>2014</b> , 258, 691-698	4.4	11
41	Spatial distribution of the 26S proteasome in meristematic tissues and primordia of rice ( <i>Oryza sativa</i> L.). <i>Planta</i> , <b>2002</b> , 214, 703-7	4.7	11
40	Characterization of Helix structures in polypeptides, revealed by <sup>13</sup> C <sup>15</sup> N hydrogen bond lengths determined by <sup>13</sup> C REDOR NMR. <i>Journal of Molecular Structure</i> , <b>2001</b> , 562, 197-203	3.4	11
39	ERdj3B-Mediated Quality Control Maintains Anther Development at High Temperatures. <i>Plant Physiology</i> , <b>2020</b> , 182, 1979-1990	6.6	11
38	A developmental model for branching morphogenesis of lake cress compound leaf. <i>PLoS ONE</i> , <b>2014</b> , 9, e111615	3.7	10
37	Tomato transformation. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.prot5084	1.2	10
36	Metabolism of Glucosylsucrose and Maltosylsucrose by <i>Streptococcus mutans</i> . <i>Caries Research</i> , <b>1980</b> , 14, 239-247	4.2	10
35	Higher plant RecA-like protein is homologous to RadA. <i>DNA Repair</i> , <b>2006</b> , 5, 80-8	4.3	9
34	<i>Coprinus cinereus</i> DNA ligase I during meiotic development. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>2003</b> , 1627, 47-55		9
33	Detection of the Cell Proliferation Zone in Leaves by Using EdU. <i>Bio-protocol</i> , <b>2015</b> , 5,	0.9	9
32	How to grow tomatoes. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.prot5081	1.2	8

31	The natural history of acute disseminated leukoencephalitis. A serial magnetic resonance imaging study. <i>Neuropediatrics</i> , <b>1992</b> , 23, 192-5	1.6	8
30	Comparative transcriptomics with self-organizing map reveals cryptic photosynthetic differences between two accessions of North American Lake cress. <i>Scientific Reports</i> , <b>2018</b> , 8, 3302	4.9	7
29	An ATP-inhibited endonuclease from cauliflower ( <i>Brassica oleracea</i> var. botrytis) inflorescence: purification and characterization. <i>Planta</i> , <b>1998</b> , 206, 641-648	4.7	7
28	Interaction between proliferating cell nuclear antigen and JUN-activation-domain-binding protein 1 in the meristem of rice, <i>Oryza sativa</i> L. <i>Planta</i> , <b>2003</b> , 217, 175-83	4.7	7
27	Expression of flap endonuclease-1 during meiosis in a basidiomycete, <i>Coprinus cinereus</i> . <i>Fungal Genetics and Biology</i> , <b>2004</b> , 41, 493-500	3.9	7
26	A plant homologue of 36 kDa subunit of replication factor C: molecular cloning and characterization. <i>Plant Science</i> , <b>2001</b> , 161, 99-106	5.3	7
25	DNA Repair Mechanisms in UV-B Tolerant Plants. <i>Japan Agricultural Research Quarterly</i> , <b>2006</b> , 40, 107-113.	5	7
24	Impact of Autophagy on Gene Expression and Tapetal Programmed Cell Death During Pollen Development in Rice. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 172	6.2	6
23	SUPPRESSOR OF GAMMA RESPONSE 1 acts as a regulator coordinating crosstalk between DNA damage response and immune response in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , <b>2020</b> , 103, 321-340	4.6	6
22	Leaves may function as temperature sensors in the heterophylly of <i>Rorippa aquatica</i> (Brassicaceae). <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e1091909	2.5	6
21	Crossing tomato plants. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.prot5082	1.2	6
20	The expression of the rice ( <i>Oryza sativa</i> L.) homologue of <i>Snm1</i> is induced by DNA damages. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 329, 668-72	3.4	6
19	Tropomodulin isolated from rabbit skeletal muscle inhibits filament formation of actin in the presence of tropomyosin and troponin. <i>FEBS Journal</i> , <b>1999</b> , 263, 396-401		6
18	Grafting tomato plants. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.prot5083	1.2	5
17	Site-directed mutational analysis of structural interactions of low molecule compounds binding to the N-terminal 8 kDa domain of DNA polymerase beta. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 350, 7-16	3.4	5
16	Cell Cycle Regulation through Ubiquitin/Proteasome-Mediated Proteolysis in Plants. <i>Japan Agricultural Research Quarterly</i> , <b>2005</b> , 39, 1-4	0.5	5
15	Ser-Gln sites of SOG1 are rapidly hyperphosphorylated in response to DNA double-strand breaks. <i>Plant Signaling and Behavior</i> , <b>2018</b> , 13, e1477904	2.5	5
14	A GLABRA1 ortholog on LG A9 controls trichome number in the Japanese leafy vegetables Mizuna and Mibuna ( <i>Brassica rapa</i> L. subsp. nipposinica L. H. Bailey): evidence from QTL analysis. <i>Journal of Plant Research</i> , <b>2017</b> , 130, 539-550	2.6	4

13	Root-knot nematodes modulate cell walls during root-knot formation in Arabidopsis roots. <i>Journal of Plant Research</i> , <b>2020</b> , 133, 419-428	2.6	4
12	Asymmetries in leaf branch are associated with differential speeds along growth axes: A theoretical prediction. <i>Developmental Dynamics</i> , <b>2017</b> , 246, 981-991	2.9	4
11	Molecular Phylogeny Determined Using Chloroplast DNA Inferred a New Phylogenetic Relationship of <i>Rorippa aquatica</i> (Eaton) EJ Palmer & Steyermark (Brassicaceae) Lake Cress. <i>American Journal of Plant Sciences</i> , <b>2014</b> , 05, 48-54	0.5	4
10	A Decrease in Ambient Temperature Induces Post-Mitotic Enlargement of Palisade Cells in North American Lake Cress. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141247	3.7	4
9	Establishment of an Agrobacterium mediated transformation protocol for the detection of cytokinin in the heterophyllous plant <i>Hygrophila difformis</i> (Acanthaceae). <i>Plant Cell Reports</i> , <b>2020</b> , 39, 737-750	5.1	3
8	Molecular Basis for Natural Vegetative Propagation via Regeneration in North American Lake Cress, <i>Rorippa aquatica</i> (Brassicaceae). <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 353-369	4.9	3
7	Combination of genetic analysis and ancient literature survey reveals the divergence of traditional <i>Brassica rapa</i> varieties from Kyoto, Japan. <i>Horticulture Research</i> , <b>2021</b> , 8, 132	7.7	3
6	Developmental analyses of divarications in leaves of an aquatic fern <i>Microsorium pteropus</i> and its varieties. <i>PLoS ONE</i> , <b>2019</b> , 14, e0210141	3.7	2
5	Ribosome slowdown triggers codon-mediated mRNA decay independently of ribosome quality control.. <i>EMBO Journal</i> , <b>2022</b> , e109256	13	1
4	Deceleration of the cell cycle underpins a switch from proliferative to terminal divisions in plant stomatal lineage.. <i>Developmental Cell</i> , <b>2022</b> ,	10.2	1
3	Molecular and Biochemical Differences in Leaf Explants and the Implication for Regeneration Ability in (Brassicaceae). <i>Plants</i> , <b>2020</b> , 9,	4.5	1
2	SOG1, a plant-specific master regulator of DNA damage responses, originated from nonvascular land plants.. <i>Plant Direct</i> , <b>2021</b> , 5, e370	3.3	1
1	Reduction in organ-organ friction is critical for corolla elongation in morning glory. <i>Communications Biology</i> , <b>2021</b> , 4, 285	6.7	0