

# Tomonari Hirano

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

540  
citations

840776

11  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of highly efficient heavy-ion mutagenesis in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2011, 11, 161.	3.6	123
2	Comprehensive identification of mutations induced by heavy-ion beam irradiation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2015, 82, 93-104.	5.7	70
3	Different mutational function of low- and high-linear energy transfer heavy-ion irradiation demonstrated by whole-genome resequencing of <i>Arabidopsis</i> mutants. <i>Plant Journal</i> , 2017, 92, 1020-1030.	5.7	70
4	Molecular nature of mutations induced by high-LET irradiation with argon and carbon ions in <i>Arabidopsis thaliana</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 735, 19-31.	1.0	50
5	Suppressor Screen and Phenotype Analyses Revealed an Emerging Role of the Monofunctional Peroxisomal Enoyl-CoA Hydratase 2 in Compensated Cell Enlargement. <i>Frontiers in Plant Science</i> , 2016, 7, 132.	3.6	41
6	The Conflict Between Cell Proliferation and Expansion Primarily Affects Stem Organogenesis in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2014, 55, 1994-2007.	3.1	31
7	Phenotypic differentiation in the morphology and nutrient uptake kinetics among <i>Undaria pinnatifida</i> cultivated at six sites in Japan. <i>Journal of Applied Phycology</i> , 2016, 28, 3447-3458.	2.8	23
8	Ion Beam Breeding and Gene Discovery for Function Analyses Using Mutants. <i>Nuclear Physics News</i> , 2015, 25, 30-34.	0.4	22
9	Effect of high-LET Fe-ion beam irradiation on mutation induction in <i>Arabidopsis thaliana</i> . <i>Genes and Genetic Systems</i> , 2013, 88, 189-197.	0.7	21
10	Rapid evaluation of effective linear energy transfer in heavy-ion mutagenesis of <i>Arabidopsis thaliana</i> . <i>Plant Biotechnology</i> , 2012, 29, 441-445.	1.0	20
11	Effect of water velocity on <i>Undaria pinnatifida</i> and <i>Saccharina japonica</i> growth in a novel tank system designed for macroalgae cultivation. <i>Journal of Applied Phycology</i> , 2017, 29, 1429-1436.	2.8	15
12	Morphological and physiological differences among cultivation lines of <i>Undaria pinnatifida</i> in a common garden experiment using a tank culture system. <i>Journal of Applied Phycology</i> , 2017, 29, 2287-2295.	2.8	11
13	DNA damage response in male gametes of <i>Cyrtanthus mackenii</i> during pollen tube growth. <i>AoB PLANTS</i> , 2013, 5, pii004-004.	2.3	10
14	AMAP: A pipeline for whole-genome mutation detection in <i>Arabidopsis thaliana</i> . <i>Genes and Genetic Systems</i> , 2016, 91, 229-233.	0.7	8
15	Mutant induction in gametophytes of <i>Undaria pinnatifida</i> (Phaeophyceae) by heavy ion beam irradiation. <i>Phycological Research</i> , 2020, 68, 63-69.	1.6	7
16	Fruit Qualities of Interspecific Hybrid and First Backcross Generations between Red Raspberry and <i>Rubus parvifolius</i> . <i>Journal of the American Society for Horticultural Science</i> , 2021, 146, 445-451.	1.0	3
17	Low Polyphenol Oxidase Mutant Induced by <sup>12</sup> C <sup>6+</sup> Ion Beam Irradiation to Protoplasts of Lettuce ( <i>Lactuca sativa</i> L.). <i>Horticultural Research (Japan)</i> , 2016, 15, 347-353.	0.1	3
18	Mutagenic Effects of Heavy-Ion Beam Irradiation to Plant Genome. <i>Cytologia</i> , 2022, 87, 3-6.	0.6	3

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19	Screening for High-Growth Mutants in Sporophytes of <i>Undaria pinnatifida</i> Using Heavy-Ion Beam Irradiation. <i>Cytologia</i> , 2021, 86, 291-295.	0.6	3
20	Double Mutant Analysis with the Large Flower Mutant, <i>ohbana1</i> , to Explore the Regulatory Network Controlling the Flower and Seed Sizes in <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2021, 10, 1881.	3.5	2
21	DNA Damage Response of <i>Cyrtanthus mackenii</i> Male Gametes Following Argon Ion Beam Irradiation. <i>Cytologia</i> , 2021, 86, 311-315.	0.6	2
22	Extending the Cultivation Period of <i>Undaria pinnatifida</i> by Using Regional Strains with Phenotypic Differentiation along the Sanriku Coast in Northern Japan. <i>Phycology</i> , 2021, 1, 129-142.	3.6	2
23	Development of the breeding technology and new cultivar for macroalgae in Sanriku region, Japan. <i>Nippon Suisan Gakkaishi</i> , 2016, 82, 160-160.	0.1	0