

Takashi Okamoto

List of Publications by Year in descending order

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43
papers

1,203
citations

430874

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docs citations

45
times ranked

965
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro Fertilization System Using Wheat Gametes by Electric Fusion. <i>Methods in Molecular Biology</i> , 2022, 2484, 259-273.	0.9	0
2	Isolation of gametes and zygotes from <i>Setaria viridis</i> . <i>Journal of Plant Research</i> , 2022, 135, 627-633.	2.4	1
3	Regulatory functions of ROS dynamics via glutathione metabolism and glutathione peroxidase activity in developing rice zygote. <i>Plant Journal</i> , 2021, 108, 1097-1115.	5.7	18
4	Development and regeneration of wheat-rice hybrid zygotes produced by <i>in vitro</i> fertilization system. <i>New Phytologist</i> , 2021, 232, 2369-2383.	7.3	3
5	Effect of Paternal Genome Excess on the Developmental and Gene Expression Profiles of Polyspermic Zygotes in Rice. <i>Plants</i> , 2021, 10, 255.	3.5	4
6	Dynamics of mitochondrial distribution during development and asymmetric division of rice zygotes. <i>Plant Reproduction</i> , 2021, , 1.	2.2	1
7	Polyspermy in angiosperms: Its contribution to polyploid formation and speciation. <i>Molecular Reproduction and Development</i> , 2020, 87, 374-379.	2.0	14
8	CRISPR/Cas9-Based Genome Editing Using Rice Zygotes. <i>Current Protocols in Plant Biology</i> , 2020, 5, e20111.	2.8	11
9	In Vitro Production of Zygotes by Electrofusion of Rice Gametes. <i>Methods in Molecular Biology</i> , 2020, 2122, 257-267.	0.9	2
10	Gene Expression and Genome Editing Systems by Direct Delivery of Macromolecules Into Rice Egg Cells and Zygotes. <i>Bio-protocol</i> , 2020, 10, e3681.	0.4	2
11	Sperm Entry into the Egg Cell Induces the Progression of Karyogamy in Rice Zygotes. <i>Plant and Cell Physiology</i> , 2019, 60, 1656-1665.	3.1	12
12	DNA demethylation by ROS1a in rice vegetative cells promotes methylation in sperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9652-9657.	7.1	56
13	An efficient DNA- and selectable-marker-free genome-editing system using zygotes in rice. <i>Nature Plants</i> , 2019, 5, 363-368.	9.3	135
14	Expression of Genes from Paternal Alleles in Rice Zygotes and Involvement of <i>OsASGR-BBML1</i> in Initiation of Zygotic Development. <i>Plant and Cell Physiology</i> , 2019, 60, 725-737.	3.1	32
15	Establishment of an In Vitro Fertilization System in Wheat (<i>Triticum aestivum</i> L.). <i>Plant and Cell Physiology</i> , 2019, 60, 835-843.	3.1	17
16	Cell cycle in egg cell and its progression during zygotic development in rice. <i>Plant Reproduction</i> , 2018, 31, 107-116.	2.2	18
17	An imbalanced parental genome ratio affects the development of rice zygotes. <i>Journal of Experimental Botany</i> , 2018, 69, 2609-2619.	4.8	18
18	Development of polyspermic zygote and possible contribution of polyspermy to polyploid formation in angiosperms. <i>Journal of Plant Research</i> , 2017, 130, 485-490.	2.4	7

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19	Nuclear migration during karyogamy in rice zygotes is mediated by continuous convergence of actin meshwork toward the egg nucleus. <i>Journal of Plant Research</i> , 2017, 130, 339-348.	2.4	20
20	Analysis of Proteins Enriched in Rice Gamete. <i>Methods in Molecular Biology</i> , 2017, 1669, 251-263.	0.9	3
21	Development of gene expression system in egg cells and zygotes isolated from rice and maize. <i>Plant Direct</i> , 2017, 1, e00010.	1.9	17
22	Isolation of gametes from <i>Brachypodium distachyon</i> . <i>Plant Biotechnology</i> , 2016, 33, 39-43.	1.0	3
23	Development of Polyspermic Rice Zygotes. <i>Plant Physiology</i> , 2016, 171, 206-214.	4.8	27
24	DNA demethylation is initiated in the central cells of <i>Arabidopsis</i> and rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15138-15143.	7.1	157
25	Formation of triploid plants via possible polyspermy. <i>Plant Signaling and Behavior</i> , 2016, 11, e1218107.	2.4	4
26	Electro-fusion of Gametes and Subsequent Culture of Zygotes in Rice. <i>Bio-protocol</i> , 2016, 6, .	0.4	3
27	Karyogamy in rice zygotes: Actin filament-dependent migration of sperm nucleus, chromatin dynamics, and <i>de novo</i> gene expression. <i>Plant Signaling and Behavior</i> , 2015, 10, e989021.	2.4	8
28	Gene and Protein Expression Profiles in Rice Gametes and Zygotes: A Cue for Understanding the Mechanisms of Gametic and Early Zygotic Development in Angiosperms. , 2014, , 369-382.		1
29	Dynamics of Male and Female Chromatin during Karyogamy in Rice Zygotes. <i>Plant Physiology</i> , 2014, 165, 1533-1543.	4.8	61
30	Gene expression profiles in rice gametes and zygotes: identification of gamete-enriched genes and up- or down-regulated genes in zygotes after fertilization. <i>Journal of Experimental Botany</i> , 2013, 64, 1927-1940.	4.8	52
31	Identification of Proteins Enriched in Rice Egg or Sperm Cells by Single-Cell Proteomics. <i>PLoS ONE</i> , 2013, 8, e69578.	2.5	39
32	In Vitro Fertilization with Rice Gametes: Production of Zygotes and Zygote and Embryo Culture. <i>Methods in Molecular Biology</i> , 2011, 710, 17-27.	0.9	17
33	Distinct Gene Expression Profiles in Egg and Synergid Cells of Rice as Revealed by Cell Type-Specific Microarrays. <i>Plant Physiology</i> , 2011, 155, 881-891.	4.8	58
34	Gamete fusion site on the egg cell and autonomous establishment of cell polarity in the zygote. <i>Plant Signaling and Behavior</i> , 2010, 5, 1464-1467.	2.4	5
35	Studies of mitochondrial morphology and DNA amount in the rice egg cell. <i>Current Genetics</i> , 2010, 56, 33-41.	1.7	23
36	Asymmetric cell division of rice zygotes located in embryo sac and produced by in vitro fertilization. <i>Sexual Plant Reproduction</i> , 2010, 23, 211-217.	2.2	38

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37	Positional relationship between the gamete fusion site and the first division plane in the rice zygote. <i>Journal of Experimental Botany</i> , 2010, 61, 3101-3105.	4.8	27
38	In Vitro Fertilization With Isolated Higher Plant Gametes. <i>Methods in Molecular Biology</i> , 2008, 427, 51-69.	0.9	10
39	Identification of the major protein components of rice egg cells. <i>Journal of Plant Research</i> , 2007, 120, 575-579.	2.4	19
40	Establishment of an in vitro fertilization system in rice (<i>Oryza sativa</i> L.). <i>Planta</i> , 2007, 226, 581-589.	3.2	77
41	Isolation of gametes and central cells from <i>Oryza sativa</i> L.. <i>Sexual Plant Reproduction</i> , 2006, 19, 37-45.	2.2	56
42	Identification of Genes that are Up- or Down-regulated in the Apical or Basal Cell of Maize Two-celled Embryos and Monitoring their Expression During Zygote Development by a Cell Manipulation- and PCR-based Approach. <i>Plant and Cell Physiology</i> , 2005, 46, 332-338.	3.1	62
43	Identification of Major Proteins in Maize Egg Cells. <i>Plant and Cell Physiology</i> , 2004, 45, 1406-1412.	3.1	65