

Mikako Saito

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

694
citations

840776

11
h-index

552781

26
g-index

50
all docs

50
docs citations

50
times ranked

1120
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A novel fluorescent derivative of glucose applicable to the assessment of glucose uptake activity of Escherichia coli. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1996, 1289, 5-9. | 2.4 | 206 |
| 2 | A real-time method of imaging glucose uptake in single, living mammalian cells. <i>Nature Protocols</i> , 2007, 2, 753-762. | 12.0 | 178 |
| 3 | Novel Î ² -1,3-, 1,6-oligoglucan elicitor from <i>Alternaria alternata</i> 102 for defense responses in tobacco. <i>FEBS Journal</i> , 2006, 273, 2421-2431. | 4.7 | 44 |
| 4 | Comprehensive Analysis of Glucan Elicitor-Regulated Gene Expression in Tobacco BY-2 Cells Reveals a Novel MYB Transcription Factor Involved in the Regulation of Phenylpropanoid Metabolism. <i>Plant and Cell Physiology</i> , 2007, 48, 1404-1413. | 3.1 | 37 |
| 5 | Characterization of NtChitIV, a class IV chitinase induced by Î ² -1,3-, 1,6-glucan elicitor from <i>Alternaria alternata</i> 102: Antagonistic effect of salicylic acid and methyl jasmonate on the induction of NtChitIV. <i>Biochemical and Biophysical Research Communications</i> , 2007, 353, 311-317. | 2.1 | 19 |
| 6 | In vivo measurement of the electrical impedance of cell membranes of tobacco cultured cells with a multifunctional microelectrode system. <i>Bioelectrochemistry</i> , 1998, 45, 83-91. | 1.0 | 18 |
| 7 | Elicitor action via cell membrane of a cultured rice cell demonstrated by the single-cell transient assay. <i>Journal of Biotechnology</i> , 2000, 76, 227-232. | 3.8 | 12 |
| 8 | Expression of rice chitinase gene triggered by the direct injection of Ca ²⁺ . <i>Journal of Biotechnology</i> , 2003, 105, 41-49. | 3.8 | 12 |
| 9 | Production of a Cloned Mouse by Nuclear Transfer from a Fetal Fibroblast Cell of a Mouse Closed Colony Strain. <i>Experimental Animals</i> , 2004, 53, 467-469. | 1.1 | 12 |
| 10 | Generation of a multi-layer muscle fiber sheet from mouse ES cells by the spermine action at specific timing and concentration. <i>Differentiation</i> , 2008, 76, 1023-1030. | 1.9 | 12 |
| 11 | Connexin30.3 is expressed in mouse embryonic stem cells and is responsive to leukemia inhibitory factor. <i>Scientific Reports</i> , 2017, 7, 42403. | 3.3 | 12 |
| 12 | Effects of a pulsing electric signal on the cross membrane potential and the cell division potentiality of a single cell of tobacco. <i>Bioelectrochemistry</i> , 1999, 49, 65-72. | 1.0 | 10 |
| 13 | Vitamin B12 Promotes Cx40 and HCN4 Gene Expression at an Early Stage of Cardiomyocyte Differentiation. <i>Experimental Animals</i> , 2009, 58, 57-60. | 1.1 | 10 |
| 14 | An Instant Cell Recognition System Using a Microfabricated Coordinate Standard Chip Useful for Combinable Cell Observation with Multiple Microscopic Apparatuses. <i>Microscopy and Microanalysis</i> , 2008, 14, 236-242. | 0.4 | 8 |
| 15 | Toxicological significance of increased serum alkaline phosphatase activity in dog studies of pesticides: Analysis of toxicological data evaluated in Japan. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 109, 104482. | 2.7 | 8 |
| 16 | Modulation of Ca ²⁺ Influx into a Single Rice Cell with an Electric Signal. <i>Electrochemistry</i> , 2000, 68, 333-336. | 1.4 | 7 |
| 17 | Cytotoxicity of Extracts from <i>Alternaria alternata</i> against Cultured Tobacco BY-2 Cells.. <i>Biocontrol Science</i> , 2002, 7, 127-130. | 0.8 | 6 |
| 18 | A novel chitinase isozyme in tobacco BY-2 cells induced by the autoclaved <i>Alternaria alternata</i> culture medium. <i>Plant Science</i> , 2004, 167, 811-817. | 3.6 | 6 |

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|----|---|-----|-----------|
| 19 | Utilization of Fluorescent Glucose Analog 2-NBDG as a Metabolic Indicator for FACS Analysis during ES Cell Differentiation. <i>Electrochemistry</i> , 2012, 80, 299-301. | 1.4 | 6 |
| 20 | Effect of Nanog overexpression on the metastatic potential of a mouse melanoma cell line B16-BL6. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 2651-2661. | 3.1 | 6 |
| 21 | Flow Cytometric Method for in situ Preparation of Standard Materials of a Small Defined Number of Microbial Cells with Colony-Forming Potentiality. <i>Journal of AOAC INTERNATIONAL</i> , 2014, 97, 479-483. | 1.5 | 5 |
| 22 | Cell-lytic Activity of Tobacco BY-2 Induced by a Fungal Elicitor from <i>Alternaria alternata</i> Attributed to the Expression of a Class I β -1,3-Glucanase Gene. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1265-1272. | 1.3 | 4 |
| 23 | Tryptic soy medium is feasible for the in situ preparation of standards containing small defined numbers of microbial cells. <i>Journal of Microbiological Methods</i> , 2013, 93, 49-51. | 1.6 | 4 |
| 24 | Development of an optimized 5-stage protocol for the in vitro preparation of insulin-secreting cells from mouse ES cells. <i>Cytotechnology</i> , 2016, 68, 987-998. | 1.6 | 4 |
| 25 | Use of Acetylene for the Fabrication of a Glass Capillary Carbon Microelectrode. <i>Electrochemistry</i> , 2000, 68, 924-926. | 1.4 | 4 |
| 26 | Anti-Metastatic Function of Extracellular Vesicles Derived from Nanog-Overexpressing Melanoma. <i>Current Oncology</i> , 2022, 29, 1029-1046. | 2.2 | 4 |
| 27 | Development of novel cell lines of diabetic dysfunction model fit for cell-based screening tests of medicinal materials. <i>Cytotechnology</i> , 2013, 65, 105-118. | 1.6 | 3 |
| 28 | Production of a mouse strain with impaired glucose tolerance by systemic heterozygous knockout of the glucokinase gene and its feasibility as a prediabetes model. <i>Experimental Animals</i> , 2015, 64, 231-239. | 1.1 | 2 |
| 29 | Rapid and retrievable recording of big data of time-lapse 3D shadow images of microbial colonies. <i>Scientific Reports</i> , 2015, 5, 10061. | 3.3 | 2 |
| 30 | A Tetracysteine-tag and HeLa Cell System for the Dynamic Analysis of the Localization and Gating Properties of a Specific Connexin Isoform. <i>Electrochemistry</i> , 2016, 84, 299-301. | 1.4 | 2 |
| 31 | In vitro production of insulin-responsive skeletal muscle tissue from mouse embryonic stem cells by spermine-induced differentiation method. <i>Human Cell</i> , 2017, 30, 162-168. | 2.7 | 2 |
| 32 | Enhancement of connexin30.3 expression in mouse embryonic stem cell line EB3 in response to cell-cell contacts. <i>Human Cell</i> , 2019, 32, 95-102. | 2.7 | 2 |
| 33 | Semi-quantitative Analysis of Transient Single-Cell Gene Expression in Embryonic Stem Cells by Femtoinjection. <i>Methods in Molecular Biology</i> , 2010, 650, 155-170. | 0.9 | 2 |
| 34 | Isolation of a Novel Isozyme of Tobacco BY-2 Chitinase Induced by a Fungal Elicitor. <i>Plant Biotechnology</i> , 2004, 21, 155-158. | 1.0 | 2 |
| 35 | Control of the Cross Membrane Potential of a Cultured Tobacco Cell and Simultaneous Measurement of the Electrical Impedance of Its Cell Membrane. <i>Electrochemistry</i> , 1999, 67, 18-21. | 1.4 | 2 |
| 36 | Standard operating procedures for maintaining cleanliness in a novel compact facility for breeding SPF mice. <i>Journal of the American Association for Laboratory Animal Science</i> , 2013, 52, 717-24. | 1.2 | 2 |

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|----|--|-----|-----------|
| 37 | Concentration-dependent effects of spermine on apoptosis and consequent generation of multilayer myotube sheets from mouse embryoid bodies in vitro. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2014, 50, 973-981. | 1.5 | 1 |
| 38 | Coating the Outer Surface of Glass Nanopipette with Chlorobenzene-Terminated Polysiloxane. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015, 13, 79-84. | 0.4 | 1 |
| 39 | Use of a Right Triangle Chip and Its Engraved Shape as a Transferrable x-y Coordinate System from Light Microscopy to Electron Microscopy. <i>Electrochemistry</i> , 2018, 86, 6-9. | 1.4 | 1 |
| 40 | Functional role of natural killer T cells in non-obese pre-diabetes model mice. <i>Cytotechnology</i> , 2018, 70, 423-430. | 1.6 | 1 |
| 41 | Effects of injured and dead cells of <i>Escherichia coli</i> on the colony-forming rate of live cells. <i>FEBS Open Bio</i> , 2021, 11, 404-412. | 2.3 | 1 |
| 42 | Microbioelectronics for Single-Cell Experiment. <i>Electrochemistry</i> , 2000, 68, 314-320. | 1.4 | 1 |
| 43 | Dielectrophoretic Selection of Viable Single-cells of Rice and Tobacco. <i>Electrochemistry</i> , 2003, 71, 446-448. | 1.4 | 1 |
| 44 | Sensitive and real time measurement of root growth by a computer-aided image analyzing system. <i>Communications in Soil Science and Plant Analysis</i> , 1998, 29, 1341-1348. | 1.4 | 0 |
| 45 | Isolation of H ⁺ -translocating ATPase in tonoplast of <i>Tradescantia virginiana</i> L. leaf cells. <i>Journal of Biotechnology</i> , 2003, 100, 221-229. | 3.8 | 0 |
| 46 | Development of a Protocol for Selection of GenesFit for the <i>In Vivo</i> Knockdown Method and its Application to Insulin Receptor Substrate Genes in Mice. <i>Experimental Animals</i> , 2013, 62, 117-125. | 1.1 | 0 |
| 47 | Fluorescent Labeling of Connexin with As Complex and X-Y Coordinate Registration of Target Single Cells Based on a Triangle Standard Chip for the Image Analysis of Gap Junctional Communication. <i>Methods in Molecular Biology</i> , 2020, 2346, 191-206. | 0.9 | 0 |
| 48 | Refinement of decision tree to assess the consequences of increased serum ALP in dogs: Additional analysis on toxicity studies of pesticides evaluated recently in Japan. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 124, 104963. | 2.7 | 0 |
| 49 | Gene Expression Analysis by Single-Cell Experiment. <i>Seibutsu Butsuri</i> , 2001, 41, 255-257. | 0.1 | 0 |