

Daisuke Takezawa

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,380
citations

394421

19
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

2612
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017, 171, 287-304.e15. | 28.9 | 973 |
| 2 | Group A PP2Cs evolved in land plants as key regulators of intrinsic desiccation tolerance. <i>Nature Communications</i> , 2013, 4, 2219. | 12.8 | 142 |
| 3 | Plant Raf-like kinase integrates abscisic acid and hyperosmotic stress signaling upstream of SNF1-related protein kinase2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6388-96. | 7.1 | 137 |
| 4 | ABA in bryophytes: how a universal growth regulator in life became a plant hormone?. <i>Journal of Plant Research</i> , 2011, 124, 437-453. | 2.4 | 122 |
| 5 | Rapid degradation of starch in chloroplasts and concomitant accumulation of soluble sugars associated with ABA-induced freezing tolerance in the moss <i>Physcomitrella patens</i> . <i>Journal of Plant Physiology</i> , 2005, 162, 169-180. | 3.5 | 117 |
| 6 | Cold acclimation in bryophytes: low-temperature-induced freezing tolerance in <i>Physcomitrella patens</i> is associated with increases in expression levels of stress-related genes but not with increase in level of endogenous abscisic acid. <i>Planta</i> , 2005, 220, 414-423. | 3.2 | 100 |
| 7 | Evolutionarily Conserved Regulatory Mechanisms of Abscisic Acid Signaling in Land Plants: Characterization of <i>ABSCISIC ACID INSENSITIVE1</i> -Like Type 2C Protein Phosphatase in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2010, 152, 1529-1543. | 4.8 | 96 |
| 8 | Abscisic acid-induced freezing tolerance in the moss <i>Physcomitrella patens</i> is accompanied by increased expression of stress-related genes. <i>Journal of Plant Physiology</i> , 2003, 160, 475-483. | 3.5 | 90 |
| 9 | SnRK2 protein kinases represent an ancient system in plants for adaptation to a terrestrial environment. <i>Communications Biology</i> , 2019, 2, 30. | 4.4 | 76 |
| 10 | <i>Arabidopsis</i> Raf-like kinases act as positive regulators of subclass III SnRK2 in osmostress signaling. <i>Plant Journal</i> , 2020, 103, 634-644. | 5.7 | 71 |
| 11 | Cold acclimation in the moss <i>Physcomitrella patens</i> involves abscisic acid-dependent signaling. <i>Journal of Plant Physiology</i> , 2012, 169, 137-145. | 3.5 | 62 |
| 12 | Accumulation of theandrose in association with development of freezing tolerance in the moss <i>Physcomitrella patens</i> . <i>Phytochemistry</i> , 2006, 67, 702-709. | 2.9 | 61 |
| 13 | Phosphoproteomic profiling reveals ABA-responsive phosphosignaling pathways in <i>Physcomitrella patens</i> . <i>Plant Journal</i> , 2018, 94, 699-708. | 5.7 | 48 |
| 14 | Archetypal Roles of an Abscisic Acid Receptor in Drought and Sugar Responses in Liverworts. <i>Plant Physiology</i> , 2019, 179, 317-328. | 4.8 | 46 |
| 15 | Decoding ABA and osmostress signalling in plants from an evolutionary point of view. <i>Plant, Cell and Environment</i> , 2020, 43, 2894-2911. | 5.7 | 39 |
| 16 | ABA as a Universal Plant Hormone. <i>Progress in Botany Fortschritte Der Botanik</i> , 2014, , 57-96. | 0.3 | 37 |
| 17 | Epoxy-carotenoid-mediated synthesis of abscisic acid in <i>Physcomitrella patens</i> implicating conserved mechanisms for acclimation to hyperosmosis in embryophytes. <i>New Phytologist</i> , 2015, 206, 209-219. | 7.3 | 35 |
| 18 | Abscisic acid-induced rearrangement of intracellular structures associated with freezing and desiccation stress tolerance in the liverwort <i>Marchantia polymorpha</i> . <i>Journal of Plant Physiology</i> , 2014, 171, 1334-1343. | 3.5 | 28 |

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|----|--|-----|-----------|
| 19 | <i>Arabidopsis</i> group C Raf-like protein kinases negatively regulate abscisic acid signaling and are direct substrates of SnRK2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 25 |
| 20 | Abscisic acid-induced gene expression in the liverwort <i>Marchantia polymorpha</i> is mediated by evolutionarily conserved promoter elements. <i>Physiologia Plantarum</i> , 2016, 156, 407-420. | 5.2 | 20 |
| 21 | Biochemical and structural characterization of an endoplasmic reticulum-localized late embryogenesis abundant (LEA) protein from the liverwort <i>Marchantia polymorpha</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 454, 588-593. | 2.1 | 14 |
| 22 | Activation of SnRK2 by Raf-like kinase ARK represents a primary mechanism of ABA and abiotic stress responses. <i>Plant Physiology</i> , 2021, 185, 533-546. | 4.8 | 14 |
| 23 | Sensor histidine kinases mediate ABA and osmotic stress signaling in the moss <i>Physcomitrium patens</i> . <i>Current Biology</i> , 2022, 32, 164-175.e8. | 3.9 | 11 |
| 24 | Mechanisms Underlying Freezing and Desiccation Tolerance in Bryophytes. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 167-187. | 1.6 | 10 |
| 25 | Molecular biology of mosses. <i>Plant Molecular Biology</i> , 2021, 107, 209-211. | 3.9 | 0 |