# Fuminori Takahashi

## List of Publications by Citations



| | | | |
|---|---|---|---|
| 46 papers | 4,498 citations | 26 h-index | 50 g-index |
| 50 ext. papers | 5,628 ext. citations | 8.1 avg, IF | 5.48 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 46 | Crosstalk between abiotic and biotic stress responses: a current view from the points of convergence in the stress signaling networks. *Current Opinion in Plant Biology*, **2006**, 9, 436-42 | 9.9 | 1340 |
| 45 | ABA-activated SnRK2 protein kinase is required for dehydration stress signaling in Arabidopsis. *Plant and Cell Physiology*, **2002**, 43, 1473-83 | 4.9 | 441 |
| 44 | The regulatory domain of SRK2E/OST1/SnRK2.6 interacts with ABI1 and integrates abscisic acid (ABA) and osmotic stress signals controlling stomatal closure in Arabidopsis. *Journal of Biological Chemistry*, **2006**, 281, 5310-8 | 5.4 | 388 |
| 43 | The mitogen-activated protein kinase cascade MKK3-MPK6 is an important part of the jasmonate signal transduction pathway in Arabidopsis. *Plant Cell*, **2007**, 19, 805-18 | 11.6 | 277 |
| 42 | Genetics and phosphoproteomics reveal a protein phosphorylation network in the abscisic acid signaling pathway in Arabidopsis thaliana. *Science Signaling*, **2013**, 6, rs8 | 8.8 | 259 |
| 41 | A small peptide modulates stomatal control via abscisic acid in long-distance signalling. *Nature*, **2018**, 556, 235-238 | 50.4 | 214 |
| 40 | Calmodulin-dependent activation of MAP kinase for ROS homeostasis in Arabidopsis. *Molecular Cell* , **2011**, 41, 649-60 | 17.6 | 190 |
| 39 | Fenton reaction is primarily involved in a mechanism of (-)-epigallocatechin-3-gallate to induce osteoclastic cell death. *Biochemical and Biophysical Research Communications*, **2002**, 292, 94-101 | 3.4 | 131 |
| 38 | SNAC-As, stress-responsive NAC transcription factors, mediate ABA-inducible leaf senescence. *Plant Journal*, **2015**, 84, 1114-23 | 6.9 | 122 |
| 37 | Mitogen-activated protein kinase regulated by the CLAVATA receptors contributes to shoot apical meristem homeostasis. *Plant and Cell Physiology*, **2011**, 52, 14-29 | 4.9 | 113 |
| 36 | The Transcriptional Cascade in the Heat Stress Response of Arabidopsis Is Strictly Regulated at the Level of Transcription Factor Expression. *Plant Cell*, **2016**, 28, 181-201 | 11.6 | 93 |
| 35 | Different Cold-Signaling Pathways Function in the Responses to Rapid and Gradual Decreases in Temperature. *Plant Cell*, **2017**, 29, 760-774 | 11.6 | 83 |
| 34 | Long-distance signaling in plant stress response. *Current Opinion in Plant Biology*, **2019**, 47, 106-111 | 9.9 | 81 |
| 33 | Overexpression of an Arabidopsis thaliana galactinol synthase gene improves drought tolerance in transgenic rice and increased grain yield in the field. *Plant Biotechnology Journal*, **2017**, 15, 1465-1477 | 11.6 | 74 |
| 32 | Drought Stress Responses and Resistance in Plants: From Cellular Responses to Long-Distance Intercellular Communication. *Frontiers in Plant Science*, **2020**, 11, 556972 | 6.2 | 67 |
| 31 | ABA-unresponsive SnRK2 protein kinases regulate mRNA decay under osmotic stress in plants. *Nature Plants*, **2017**, 3, 16204 | 11.5 | 63 |
| 30 | SnRK2 protein kinases represent an ancient system in plants for adaptation to a terrestrial environment. *Communications Biology*, **2019**, 2, 30 | 6.7 | 56 |

| | | | |
|---|---|---|---|
| 29 | NGATHA1 transcription factor induces ABA biosynthesis by activating gene during dehydration stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E11178-E11187 | 11.5 | 56 |
| 28 | BPM-CUL3 E3 ligase modulates thermotolerance by facilitating negative regulatory domain-mediated degradation of DREB2A in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8528-E8536 | 11.5 | 53 |
| 27 | Plant Raf-like kinases regulate the mRNA population upstream of ABA-unresponsive SnRK2 kinases under drought stress. *Nature Communications*, **2020**, 11, 1373 | 17.4 | 45 |
| 26 | Regulatory Gene Networks in Drought Stress Responses and Resistance in Plants. *Advances in Experimental Medicine and Biology*, **2018**, 1081, 189-214 | 3.6 | 45 |
| 25 | Two distinct families of protein kinases are required for plant growth under high external Mg2+ concentrations in Arabidopsis. *Plant Physiology*, **2015**, 167, 1039-57 | 6.6 | 38 |
| 24 | Arabidopsis galactinol synthase AtGolS2 improves drought tolerance in the monocot model Brachypodium distachyon. *Journal of Plant Physiology*, **2014**, 171, 1127-31 | 3.6 | 36 |
| 23 | Heat-induced inhibition of phosphorylation of the stress-protective transcription factor DREB2A promotes thermotolerance of. *Journal of Biological Chemistry*, **2019**, 294, 902-917 | 5.4 | 33 |
| 22 | Hormone-like peptides and small coding genes in plant stress signaling and development. *Current Opinion in Plant Biology*, **2019**, 51, 88-95 | 9.9 | 29 |
| 21 | Comparison of Leaf Sheath Transcriptome Profiles with Physiological Traits of Bread Wheat Cultivars under Salinity Stress. *PLoS ONE*, **2015**, 10, e0133322 | 3.7 | 26 |
| 20 | NF-YB2 and NF-YB3 Have Functionally Diverged and Differentially Induce Drought and Heat Stress-Specific Genes. *Plant Physiology*, **2019**, 180, 1677-1690 | 6.6 | 25 |
| 19 | Large-scale collection and analysis of full-length cDNAs from Brachypodium distachyon and integration with Pooideae sequence resources. *PLoS ONE*, **2013**, 8, e75265 | 3.7 | 25 |
| 18 | Cellular Phosphorylation Signaling and Gene Expression in Drought Stress Responses: ABA-Dependent and ABA-Independent Regulatory Systems. *Plants*, **2021**, 10, | 4.5 | 16 |
| 17 | Long-distance stress and developmental signals associated with abscisic acid signaling in environmental responses. *Plant Journal*, **2021**, 105, 477-488 | 6.9 | 11 |
| 16 | ABA-responsive gene expression in response to drought stress: cellular regulation and long-distance signaling. *Advances in Botanical Research*, **2019**, 83-113 | 2.2 | 9 |
| 15 | Arabidopsis SMN2/HEN2, Encoding DEAD-Box RNA Helicase, Governs Proper Expression of the Resistance Gene SMN1/RPS6 and Is Involved in Dwarf, Autoimmune Phenotypes of mekk1 and mpk4 Mutants. *Plant and Cell Physiology*, **2020**, 61, 1507-1516 | 4.9 | 8 |
| 14 | Comparative Phosphoproteomic Analysis Reveals a Decay of ABA Signaling in Barley Embryos during After-Ripening. *Plant and Cell Physiology*, **2019**, 60, 2758-2768 | 4.9 | 8 |
| 13 | Comparative Phosphoproteomic Analysis of Barley Embryos with Different Dormancy during Imbibition. *International Journal of Molecular Sciences*, **2019**, 20, | 6.3 | 7 |
| 12 | Phosphorylation networks in the abscisic Acid signaling pathway. *The Enzymes*, **2014**, 35, 27-56 | 2.3 | 7 |

| | | | |
|---|---|---|---|
| 11 | Large-Scale Phosphoproteomic Study of Membrane Proteins Reveals Early Signaling Events in Response to Cold. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 6 |
| 10 | Inter-tissue and inter-organ signaling in drought stress response and phenotyping of drought tolerance. *Plant Journal*, **2021**, | 6.9 | 5 |
| 9 | group C Raf-like protein kinases negatively regulate abscisic acid signaling and are direct substrates of SnRK2. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 5 |
| 8 | Plant Mitogen-Activated Protein Kinase Cascades in Signaling Crosstalk23-42 | | 3 |
| 7 | TBP-ASSOCIATED FACTOR 12 ortholog NOBIRO6 controls root elongation with unfolded protein response cofactor activity.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, | 11.5 | 2 |
| 6 | Stress Physiology of Higher Plants: Cross-Talk between Abiotic and Biotic Stress Signaling65-89 | | 1 |
| 5 | SNF1-related protein kinase 2 directly regulate group C Raf-like protein kinases in abscisic acid signaling | | 1 |
| 4 | Protein Phosphorylation Network in Abscisic Acid Signaling **2013**, 155-164 | | 1 |
| 3 | Affinity Purification Followed by Liquid Chromatography-Tandem Mass Spectrometry to Identify Proteins Interacting with ABA Signaling Components.. *Methods in Molecular Biology*, **2022**, 2462, 181-189 | 1.4 | |
| 2 | Use of Micrografting to Study the Role Played by Peptide Signals in ABA Biosynthesis.. *Methods in Molecular Biology*, **2022**, 2462, 101-109 | 1.4 | |
| 1 | Transcriptome Analysis of , Which Shows the Fastest Germination and Growth in the Major Mongolian Grassland Plant. *Frontiers in Plant Science*, **2021**, 12, 684987 | 6.2 | |