

# Tomas Takac

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3146700/publications.pdf>

Version: 2024-02-01

48  
papers

1,646  
citations

304743

22  
h-index

302126

39  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis Iron Superoxide Dismutase FSD1 Protects Against Methyl Viologen-Induced Oxidative Stress in a Copper-Dependent Manner. <i>Frontiers in Plant Science</i> , 2022, 13, 823561.	3.6	8
2	<i>In vivo</i> light-sheet microscopy resolves localisation patterns of FSD1, a superoxide dismutase with function in root development and osmoprotection. <i>Plant, Cell and Environment</i> , 2021, 44, 68-87.	5.7	27
3	Genome-Wide Identification of Banana Csl Gene Family and Their Different Responses to Low Temperature between Chilling-Sensitive and Tolerant Cultivars. <i>Plants</i> , 2021, 10, 122.	3.5	12
4	Single Amino Acid Exchange in ACTIN2 Confers Increased Tolerance to Oxidative Stress in Arabidopsis der1-3 Mutant. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1879.	4.1	8
5	TALEN-Based HvMPK3 Knock-Out Attenuates Proteome and Root Hair Phenotypic Responses to flg22 in Barley. <i>Frontiers in Plant Science</i> , 2021, 12, 666229.	3.6	11
6	Acceleration of Carbon Fixation in Chilling-Sensitive Banana under Mild and Moderate Chilling Stresses. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9326.	4.1	1
7	Aromatic Cytokinin Arabinosides Promote PAMP-like Responses and Positively Regulate Leaf Longevity. <i>ACS Chemical Biology</i> , 2020, 15, 1949-1963.	3.4	22
8	Biotechnological Perspectives of Omics and Genetic Engineering Methods in Alfalfa. <i>Frontiers in Plant Science</i> , 2020, 11, 592.	3.6	16
9	FSD1 : developmentally-regulated plastidial, nuclear and cytoplasmic enzyme with anti-oxidative and osmoprotective role. <i>Plant, Cell and Environment</i> , 2020, , .	5.7	9
10	Signaling Toward Reactive Oxygen Species-Scavenging Enzymes in Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 618835.	3.6	116
11	Shot-Gun Proteomic Analysis on Roots of Arabidopsis pld1±1 Mutants Suggesting the Involvement of PLD1±1 in Mitochondrial Protein Import, Vesicular Trafficking and Glucosinolate Biosynthesis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 82.	4.1	3
12	Recent Advances in the Cellular and Developmental Biology of Phospholipases in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 362.	3.6	44
13	Proteomic Analysis of Arabidopsis pld1±1 Mutants Revealed an Important Role of Phospholipase D Alpha 1 in Chloroplast Biogenesis. <i>Frontiers in Plant Science</i> , 2019, 10, 89.	3.6	12
14	Biochemical and Genetic Interactions of Phospholipase D Alpha 1 and Mitogen-Activated Protein Kinase 3 Affect Arabidopsis Stress Response. <i>Frontiers in Plant Science</i> , 2019, 10, 275.	3.6	18
15	Comparative Digital Gene Expression Analysis of Tissue-Cultured Plantlets of Highly Resistant and Susceptible Banana Cultivars in Response to <i>Fusarium oxysporum</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 350.	4.1	24
16	Actin depolymerization-induced changes in proteome of Arabidopsis roots. <i>Journal of Proteomics</i> , 2017, 153, 89-99.	2.4	6
17	Integrating cell biology and proteomic approaches in plants. <i>Journal of Proteomics</i> , 2017, 169, 165-175.	2.4	13
18	Expression and distribution of extensins and AGPs in susceptible and resistant banana cultivars in response to wounding and <i>Fusarium oxysporum</i> . <i>Scientific Reports</i> , 2017, 7, 42400.	3.3	30

#	ARTICLE	IF	CITATIONS
19	Feedback Microtubule Control and Microtubule-Actin Cross-talk in Arabidopsis Revealed by Integrative Proteomic and Cell Biology Analysis of KATANIN 1 Mutants. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1591-1609.	3.8	52
20	Katanin: A Sword Cutting Microtubules for Cellular, Developmental, and Physiological Purposes. <i>Frontiers in Plant Science</i> , 2017, 8, 1982.	3.6	59
21	Cytokinin-Specific Glycosyltransferases Possess Different Roles in Cytokinin Homeostasis Maintenance. <i>Frontiers in Plant Science</i> , 2016, 7, 1264.	3.6	90
22	Comparative proteomic study of Arabidopsis mutants mpk4 and mpk6. <i>Scientific Reports</i> , 2016, 6, 28306.	3.3	33
23	Biotechnological aspects of shot-gun proteomic analyses of Arabidopsis MAPK mutants. <i>New Biotechnology</i> , 2016, 33, S46.	4.4	0
24	Functional proteomics on Arabidopsis MAP3K mutants and MAP2K overexpressor line. <i>New Biotechnology</i> , 2016, 33, S180.	4.4	0
25	Improvement of adventitious root formation in flax using hydrogen peroxide. <i>New Biotechnology</i> , 2016, 33, 728-734.	4.4	27
26	Variable content and distribution of arabinogalactan proteins in banana ( <i>Musa spp.</i> ) under low temperature stress. <i>Frontiers in Plant Science</i> , 2015, 6, 353.	3.6	26
27	Advantages and limitations of shot-gun proteomic analyses on Arabidopsis plants with altered MAPK signaling. <i>Frontiers in Plant Science</i> , 2015, 6, 107.	3.6	21
28	Trans-Golgi network localized small GTPase RabA1d is involved in cell plate formation and oscillatory root hair growth. <i>BMC Plant Biology</i> , 2014, 14, 252.	3.6	52
29	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of Medicago SIMKK in Arabidopsis. <i>Journal of Experimental Botany</i> , 2014, 65, 2335-2350.	4.8	37
30	Managing heavy metal toxicity stress in plants: Biological and biotechnological tools. <i>Biotechnology Advances</i> , 2014, 32, 73-86.	11.7	239
31	Proteomic and Biochemical Analyses Show a Functional Network of Proteins Involved in Antioxidant Defense of the <i>Arabidopsis</i> <i>anp2anp3</i> Double Mutant. <i>Journal of Proteome Research</i> , 2014, 13, 5347-5361.	3.7	20
32	Involvement of <i>YODA</i> and mitogen activated protein kinase 6 in Arabidopsis post-embryogenic root development through auxin up-regulation and cell division plane orientation. <i>New Phytologist</i> , 2014, 203, 1175-1193.	7.3	118
33	Affinity-Based SDS PAGE Identification of Phosphorylated Arabidopsis MAPKs and Substrates by Acrylamide Pendant Phos-Tag. <i>Methods in Molecular Biology</i> , 2014, 1171, 47-63.	0.9	8
34	Integrative Chemical Proteomics and Cell Biology Methods to Study Endocytosis and Vesicular Trafficking in Arabidopsis. <i>Methods in Molecular Biology</i> , 2014, 1209, 265-283.	0.9	4
35	Maize proteomics: An insight into the biology of an important cereal crop. <i>Proteomics</i> , 2013, 13, 637-662.	2.2	62
36	Vesicular Trafficking and Stress Response Coupled to PI3K Inhibition by LY294002 as Revealed by Proteomic and Cell Biological Analysis. <i>Journal of Proteome Research</i> , 2013, 12, 4435-4448.	3.7	47

#	ARTICLE	IF	CITATIONS
37	A systematic comparison of embryogenic and non-embryogenic cells of banana (Musa spp. AAA): Ultrastructural, biochemical and cell wall component analyses. Scientia Horticulturae, 2013, 159, 178-185.	3.6	9
38	Wound-induced pectin methylesterases enhance banana (Musa spp. AAA) susceptibility to Fusarium oxysporum f. sp. cubense. Journal of Experimental Botany, 2013, 64, 2219-2229.	4.8	33
39	Histological changes and differences in activities of some antioxidant enzymes and hydrogen peroxide content during somatic embryogenesis of Musa AAA cv. Yueyoukang 1. Scientia Horticulturae, 2012, 144, 87-92.	3.6	22
40	Proteomic and biochemical analysis of maize anthers after cold pretreatment and induction of androgenesis reveals an important role of anti-oxidative enzymes. Journal of Proteomics, 2012, 75, 1886-1894.	2.4	40
41	Wortmannin Treatment Induces Changes in <i>Arabidopsis</i> Root Proteome and Post-Golgi Compartments. Journal of Proteome Research, 2012, 11, 3127-3142.	3.7	48
42	Update on Methods and Techniques to Study Endocytosis in Plants. , 2012, , 1-36.		1
43	ER disruption and GFP degradation during non-regenerable transformation of flax with <i>Agrobacterium tumefaciens</i> . Protoplasma, 2012, 249, 53-63.	2.1	6
44	Proteomics on Brefeldin A-Treated <i>Arabidopsis</i> Roots Reveals Profilin 2 as a New Protein Involved in the Cross-Talk between Vesicular Trafficking and the Actin Cytoskeleton. Journal of Proteome Research, 2011, 10, 488-501.	3.7	55
45	Developmental localization and the role of hydroxyproline rich glycoproteins during somatic embryogenesis of banana (Musa spp. AAA). BMC Plant Biology, 2011, 11, 38.	3.6	43
46	Differential proteomics of plant development. Journal of Proteomics, 2011, 74, 577-588.	2.4	67
47	Arabinogalactan-protein epitope Gal4 is differentially regulated and localized in cell lines of hybrid fir ( <i>Abies alba</i> — <i>Abies cephalonica</i> ) with different embryogenic and regeneration potential. Plant Cell Reports, 2008, 27, 221-229.	5.6	32
48	The relationship of antioxidant enzymes and some physiological parameters in maize during chilling. Plant, Soil and Environment, 2004, 50, 27-32.	2.2	11