Ariel Orellana

List of Publications by Year
in descending order

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86	5,464	76196	82410
papers	citations	40 h-index	72 g-index

88	88	88	6288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The high-quality draft genome of peach (Prunus persica) identifies unique patterns of genetic diversity, domestication and genome evolution. Nature Genetics, 2013, 45, 487-494.	9.4	1,031
2	Xyloglucan Fucosyltransferase, an Enzyme Involved in Plant Cell Wall Biosynthesis. Science, 1999, 284, 1976-1979.	6.0	285
3	ER-localized auxin transporter PIN8 regulates auxin homeostasis and male gametophyte development in Arabidopsis. Nature Communications, 2012, 3, 941.	5.8	233
4	A Rapid and Efficient Method for Purifying High Quality Total RNA from Peaches (Prunus persica) for Functional Genomics Analyses. Biological Research, 2005, 38, 83-8.	1.5	215
5	IRE1/bZIP60-Mediated Unfolded Protein Response Plays Distinct Roles in Plant Immunity and Abiotic Stress Responses. PLoS ONE, 2012, 7, e31944.	1.1	200
6	Identification and Characterization of GONST1, a Golgi-Localized GDP-Mannose Transporter in Arabidopsis. Plant Cell, 2001, 13, 2283-2295.	3.1	142
7	The Catalytic Site of the Pectin Biosynthetic Enzyme Î±-1,4-Galacturonosyltransferase Is Located in the Lumen of the Golgi. Plant Physiology, 2001, 127, 360-371.	2.3	129
8	AtHMA1 Is a Thapsigargin-sensitive Ca2+/Heavy Metal Pump. Journal of Biological Chemistry, 2008, 283, 9633-9641.	1.6	124
9	PIN6 auxin transporter at endoplasmic reticulum and plasma membrane mediates auxin homeostasis and organogenesis in Arabidopsis. New Phytologist, 2016, 211, 65-74.	3.5	119
10	Whole genome comparison between table and wine grapes reveals a comprehensive catalog of structural variants. BMC Plant Biology, 2014, 14, 7.	1.6	115
11	The Golgi localized bifunctional UDP-rhamnose/UDP-galactose transporter family of Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11563-11568.	3.3	113
12	Proteomic analysis of peach fruit mesocarp softening and chilling injury using difference gel electrophoresis (DIGE). BMC Genomics, 2010, 11, 43.	1.2	107
13	Identification and Characterization of GONST1, a Golgi-Localized GDP-Mannose Transporter in Arabidopsis. Plant Cell, 2001, 13, 2283-2295.	3.1	102
14	Transport of UDP-galactose in Plants. Journal of Biological Chemistry, 2002, 277, 32923-32929.	1.6	96
15	Diacylglycerol activation of protein kinase C is modulated by long-chain acyl-CoA. Biochemical and Biophysical Research Communications, 1988, 152, 987-992.	1.0	93
16	The physiological role of the unfolded protein response in plants. Biological Research, 2011, 44, 75-80.	1.5	93
17	Evidence for a UDP-Glucose Transporter in Golgi Apparatus-Derived Vesicles from Pea and Its Possible Role in Polysaccharide Biosynthesis. Plant Physiology, 1996, 112, 1585-1594.	2.3	83
18	Identification of candidate genes associated with mealiness and maturity date in peach [Prunus persica (L.) Batsch] using QTL analysis and deep sequencing. Tree Genetics and Genomes, 2015, 11, 1.	0.6	82

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19	A single protein catalyzes both N-deacetylation and N-sulfation during the biosynthesis of heparan sulfate.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3885-3888.	3.3	79
20	Identification of woolliness response genes in peach fruit after post-harvest treatments. Journal of Experimental Botany, 2008, 59, 1973-1986.	2.4	78
21	Nucleotide-sugar transporters: structure, function and roles in vivo. Brazilian Journal of Medical and Biological Research, 2006, 39, 1149-1158.	0.7	72
22	Photosynthesis and metabolism interact during acclimation of Arabidopsis thaliana to high irradiance and sulphur depletion. Plant, Cell and Environment, 2010, 33, 1974-1988.	2.8	71
23	Potentiation of diacylglycerol-activated protein kinase C by acyl-coenzyme a thioesters of hypolipidaemic drugs. Biochemical and Biophysical Research Communications, 1989, 159, 1026-1031.	1.0	67
24	The UDP-glucose: glycoprotein glucosyltransferase (UGGT), a key enzyme in ER quality control, plays a significant role in plant growth as well as biotic and abiotic stress in Arabidopsis thaliana. BMC Plant Biology, 2015, 15, 127.	1.6	67
25	Comparative EST transcript profiling of peach fruits under different post-harvest conditions reveals candidate genes associated with peach fruit quality. BMC Genomics, 2009, 10, 423.	1.2	63
26	Immunopurification of Golgi vesicles by magnetic sorting. Journal of Immunological Methods, 2002, 260, 263-271.	0.6	62
27	Golgi transporters: opening the gate to cell wall polysaccharide biosynthesis. Current Opinion in Plant Biology, 2008, 11, 244-251.	3.5	61
28	UUAT1 Is a Golgi-Localized UDP-Uronic Acid Transporter That Modulates the Polysaccharide Composition of Arabidopsis Seed Mucilage. Plant Cell, 2017, 29, 129-143.	3.1	60
29	bZIP17 and bZIP60 Regulate the Expression of BiP3 and Other Salt Stress Responsive Genes in an UPR-Independent Manner inArabidopsis thaliana. Journal of Cellular Biochemistry, 2015, 116, 1638-1645.	1.2	57
30	The Arabidopsis Golgi-localized GDP-L-fucose transporter is required for plant development. Nature Communications, 2016, 7, 12119.	5.8	53
31	Assessment of Prunus persica fruit softening using a proteomics approach. Journal of Proteomics, 2012, 75, 1618-1638.	1.2	52
32	The elaborate route for UDP-arabinose delivery into the Golgi of plants. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4261-4266.	3.3	52
33	The nucleotide sugar transporters AtUTr1 and AtUTr3 are required for the incorporation of UDPâ€glucose into the endoplasmic reticulum, are essential for pollen development and are needed for embryo sac progress in Arabidopsis thaliana. Plant Journal, 2010, 61, 423-435.	2.8	51
34	Identification of two putative reference genes from grapevine suitable for gene expression analysis in berry and related tissues derived from RNA-Seq data. BMC Genomics, 2013, 14, 878.	1.2	50
35	Palmitoyl-CoA and the acyl-CoA thioester of the carcinogenic peroxisome-proliferator ciprofibrate potentiate diacylglycerol-activated protein kinase C by decreasing the phosphatidylserine requirement of the enzyme. FEBS Journal, 1990, 190, 57-61.	0.2	49
36	GDP-Fucose Uptake into the Golgi Apparatus during Xyloglucan Biosynthesis Requires the Activity of a Transporter-Like Protein Other Than the UDP-Glucose Transporter. Plant Physiology, 2000, 122, 867-878.	2.3	47

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37	Biochemical and physiological study of the firmness of table grape berries. Postharvest Biology and Technology, 2014, 93, 15-23.	2.9	46
38	AtUTr1, a UDP-glucose/UDP-galactose Transporter from Arabidopsis thaliana, Is Located in the Endoplasmic Reticulum and Up-regulated by the Unfolded Protein Response*. Journal of Biological Chemistry, 2006, 281, 9145-9151.	1.6	45
39	Overview of Nucleotide Sugar Transporter Gene Family Functions Across Multiple Species. Journal of Molecular Biology, 2016, 428, 3150-3165.	2.0	45
40	A Thapsigargin-Sensitive Ca2+ Pump Is Present in the Pea Golgi Apparatus Membrane. Plant Physiology, 2002, 129, 1820-1828.	2.3	43
41	AtUTr2 is an Arabidopsis thaliana nucleotide sugar transporter located in the Golgi apparatus capable of transporting UDP-galactose. Planta, 2005, 222, 521-529.	1.6	39
42	The inside and outside: topological issues in plant cell wall biosynthesis and the roles of nucleotide sugar transporters. Glycobiology, 2016, 26, 913-925.	1.3	38
43	The Import of S-Adenosylmethionine into the Golgi Apparatus Is Required for the Methylation of Homogalacturonan. Plant Physiology, 2007, 145, 504-512.	2.3	36
44	Plant ecological genomics at the limits of life in the Atacama Desert. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	35
45	Molecular and physiological study of postharvest rachis browning of table grape cv Red Globe. Postharvest Biology and Technology, 2012, 72, 47-56.	2.9	32
46	Ciprofibrate, a carcinogenic peroxisome proliferator, increases the phosphorylation of epidermal-growth-factor receptor in isolated rat hepatocytes. FEBS Journal, 1993, 215, 903-906.	0.2	31
47	Arabidopsis thaliana AtUTr7 Encodes a Golgi-Localized UDPâ€“Glucose/UDPâ€“Galactose Transporter that Affects Lateral Root Emergence. Molecular Plant, 2012, 5, 1263-1280.	3.9	31
48	Metabolism of Uridine 5â€²-Diphosphate-Glucose in Golgi Vesicles from Pea Stems1. Plant Physiology, 1998, 117, 1007-1014.	2.3	30
49	Seasonal variation in the development of chilling injury in â€˜Oâ€™Henryâ€™ peaches. Scientia Horticulturae, 2006, 110, 79-83.	1.7	30
50	AtAPY1 and AtAPY2 Function as Golgi-Localized Nucleoside Diphosphatases in Arabidopsis thaliana. Plant and Cell Physiology, 2012, 53, 1913-1925.	1.5	30
51	Topography and Function of Golgi Uridine-5[prime]-Diphosphatase from Pea Stems. Plant Physiology, 1997, 114, 99-107.	2.3	28
52	Using genomics to improve fruit quality. Biological Research, 2013, 46, 347-352.	1.5	28
53	A Prunus persica genomeâ€wide RNAâ€seq approach uncovers major differences in the transcriptome among chilling injury sensitive and nonâ€sensitive varieties. Physiologia Plantarum, 2019, 166, 772-793.	2.6	28
54	The Dynamic of the Splicing of bZIP60 and the Proteins Encoded by the Spliced and Unspliced mRNAs Reveals Some Unique Features during the Activation of UPR in Arabidopsis thaliana. PLoS ONE, 2015, 10, e0122936.	1.1	27

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55	Complex formation regulates the glycosylation of the reversibly glycosylated polypeptide. Planta, 2007, 226, 335-345.	1.6	26
56	In vivo analysis of the calcium signature in the plant Golgi apparatus reveals unique dynamics. Cell Calcium, 2012, 52, 397-404.	1.1	25
57	Intracellular iron regulates iron absorption and IRP activity in intestinal epithelial (Caco-2) cells. American Journal of Physiology - Renal Physiology, 1997, 273, G275-G280.	1.6	23
58	Golgi-localized putative S-adenosyl methionine transporters required for plant cell wall polysaccharide methylation. Nature Plants, 2022, 8, 656-669.	4.7	23
59	KINETIC CHARACTERIZATION OF CALCIUM UPTAKE BY THE RAT LIVER GOLGI APPARATUS. Cell Biology International, 2000, 24, 229-233.	1.4	21
60	Enzymatic Synthesis and Purification of [3H]Uridine Diphosphate Galacturonic Acid for Use in Studying Golgi-Localized Transporters. Analytical Biochemistry, 1999, 272, 224-231.	1.1	18
61	Identification of Novel Components of the Unfolded Protein Response in Arabidopsis. Frontiers in Plant Science, 2016, 7, 650.	1.7	18
62	Transcriptome profiling of grapevine seedless segregants during berry development reveals candidate genes associated with berry weight. BMC Plant Biology, 2016, 16, 104.	1.6	18
63	Identification of SNPs and InDels associated with berry size in table grapes integrating genetic and transcriptomic approaches. BMC Plant Biology, 2020, 20, 365.	1.6	18
64	Comparative Study of Two Table Grape Varieties with Contrasting Texture during Cold Storage. Molecules, 2015, 20, 3667-3680.	1.7	17
65	The Root Hair Specific SYP123 Regulates the Localization of Cell Wall Components and Contributes to Rizhobacterial Priming of Induced Systemic Resistance. Frontiers in Plant Science, 2016, 7, 1081.	1.7	17
66	Proteomic analysis of a segregant population reveals candidate proteins linked to mealiness in peach. Journal of Proteomics, 2016, 131, 71-81.	1.2	17
67	bZIP17 regulates the expression of genes related to seed storage and germination, reducing seed susceptibility to osmotic stress. Journal of Cellular Biochemistry, 2018, 119, 6857-6868.	1.2	16
68	SARS-CoV-2 infection in asymptomatic healthcare workers at a clinic in Chile. PLoS ONE, 2021, 16, e0245913.	1.1	16
69	Proteomic analysis of grapevine (Vitis vinifera L.) leaf changes induced by transition to autotrophy and exposure to high light irradiance. Journal of Proteomics, 2013, 91, 309-330.	1.2	14
70	New steps in mucilage biosynthesis revealed by analysis of the transcriptome of the UDP-rhamnose/UDP-galactose transporter 2 mutant. Journal of Experimental Botany, 2019, 70, 5071-5088.	2.4	14
71	Shotgun proteomics of peach fruit reveals major metabolic pathways associated to ripening. BMC Genomics, 2021, 22, 17.	1.2	14
72	Whole Genome Sequence, Variant Discovery and Annotation in Mapuche-Huilliche Native South Americans. Scientific Reports, 2019, 9, 2132.	1.6	12

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73	Global gene expression analysis provides insight into local adaptation to geothermal streams in tadpoles of the Andean toad Rhinella spinulosa. Scientific Reports, 2017, 7, 1966.	1.6	10
74	Transport of UDP-rhamnose by URGT2, URGT4, and URGT6 modulates rhamnogalacturonan-I length. Plant Physiology, 2021, 185, 914-933.	2.3	10
75	JUICE: a data management system that facilitates the analysis of large volumes of information in an EST project workflow. BMC Bioinformatics, 2006, 7, 513.	1.2	9
76	Induction of peroxisomal fatty acyl-coenzyme A oxidase and total carnitine acetyl-coenzyme A transferase in primary cultures of rat hepatocytes by garlic extracts. Toxicology Letters, 1992, 60, 11-17.	0.4	5
77	Peroxisome Proliferators and Signal Transduction. Annals of the New York Academy of Sciences, 1996, 804, 403-412.	1.8	5
78	Comparative Transcriptome Profiling in a Segregating Peach Population with Contrasting Juiciness Phenotypes. Journal of Agricultural and Food Chemistry, 2019, 67, 1598-1607.	2.4	5
79	Genome sequencing and transcriptomic analysis of the Andean killifish Orestias ascotanensis reveals adaptation to high-altitude aquatic life. Genomics, 2022, 114, 305-315.	1.3	5
80	Functional Genomics in Peach. , 2009, , 259-275.		3
81	Biosynthesis of non-cellulosic polysaccharides in the Golgi apparatus. Topological considerations. Plant Biosystems, 2005, 139, 42-45.	0.8	2
82	Functional Interchangeability of Nucleotide Sugar Transporters URGT1 and URGT2 Reveals That urgt1 and urgt2 Cell Wall Chemotypes Depend on Their Spatio-Temporal Expression. Frontiers in Plant Science, 2020, 11, 594544.	1.7	2
83	Identification and Characterization of GONST1, a Golgi-Localized GDP-Mannose Transporter in Arabidopsis. Plant Cell, 2001, 13, 2283.	3.1	0
84	Membrane Transport | Nucleotide Sugar Transporters. , 2021, , 1070-1072.		0
85	AtUTr1 a UDPâ€galactose/UDPâ€glucose transporter from Arabidopsis thaliana is located at the endoplasmic reticulum and is involved in protein folding quality control. FASEB Journal, 2006, 20, A55.	0.2	0
86	Efecto del acondicionado previo al almacenaje refrigerado sobre la calidad de ciruelas 'Constanza'. Bragantia, 2008, 67, 233-242.	1.3	0