Laurent Gutierrez

List of Publications by Citations

35 papers	3,000 citations	24 h-index	40 g-index
40 ext. papers	3,591 ext. citations	7.8 avg, IF	4.6 L-index

#	Paper	IF	Citations
35	The lack of a systematic validation of reference genes: a serious pitfall undervalued in reverse transcription-polymerase chain reaction (RT-PCR) analysis in plants. *Plant Biotechnology Journal*, **2008**, 6, 609-18	11.6	524
34	Phenotypic plasticity of adventitious rooting in Arabidopsis is controlled by complex regulation of AUXIN RESPONSE FACTOR transcripts and microRNA abundance. *Plant Cell*, **2009**, 21, 3119-32	11.6	413
33	Normalization of qRT-PCR data: the necessity of adopting a systematic, experimental conditions-specific, validation of references. *Journal of Experimental Botany*, **2009**, 60, 487-93	7	407
32	Auxin controls Arabidopsis adventitious root initiation by regulating jasmonic acid homeostasis. *Plant Cell*, **2012**, 24, 2515-27	11.6	306
31	Combined networks regulating seed maturation. *Trends in Plant Science*, **2007**, 12, 294-300	13.1	246
30	Towards a systematic validation of references in real-time rt-PCR. *Plant Cell*, **2008**, 20, 1734-5	11.6	170
29	Comprehensive expression profiling of the pectin methylesterase gene family during silique development in Arabidopsis thaliana. *Planta*, **2006**, 224, 782-91	4.7	96
28	Pinoresinol-lariciresinol reductase gene expression and secoisolariciresinol diglucoside accumulation in developing flax (Linum usitatissimum) seeds. *Planta*, **2006**, 224, 1291-301	4.7	92
27	Metallothionein-1 as a biomarker of altered redox metabolism in hepatocellular carcinoma cells exposed to sorafenib. *Molecular Cancer*, **2016**, 15, 38	42.1	65
26	A collection of INDEL markers for map-based cloning in seven Arabidopsis accessions. *Journal of Experimental Botany*, **2012**, 63, 2491-501	7	57
25	A Molecular Framework for the Control of Adventitious Rooting by TIR1/AFB2-Aux/IAA-Dependent Auxin Signaling in Arabidopsis. *Molecular Plant*, **2019**, 12, 1499-1514	14.4	54
24	Identification of pectin methylesterase 3 as a basic pectin methylesterase isoform involved in adventitious rooting in Arabidopsis thaliana. *New Phytologist*, **2011**, 192, 114-126	9.8	54
23	Development and validation of a flax (Linum usitatissimum L.) gene expression oligo microarray. *BMC Genomics*, **2010**, 11, 592	4.5	51
22	Oligogalacturonide production upon - interaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 19743-19752	11.5	42
21	Leaf senescence is accompanied by an early disruption of the microtubule network in Arabidopsis. *Plant Physiology*, **2010**, 154, 1710-20	6.6	42
20	RNAi-mediated pinoresinol lariciresinol reductase gene silencing in flax (Linum usitatissimum L.) seed coat: consequences on lignans and neolignans accumulation. *Journal of Plant Physiology*, **2014**, 171, 1372-7	3.6	36
19	Abscisic acid regulates pinoresinol-lariciresinol reductase gene expression and secoisolariciresinol accumulation in developing flax (Linum usitatissimum L.) seeds. *Planta*, **2012**, 235, 85-98	4.7	33

18	Identification of new gene expression regulators specifically expressed during plant seed maturation. *Journal of Experimental Botany*, **2006**, 57, 1919-32	7	33
17	Jasmonate promotes auxin-induced adventitious rooting in dark-grown Arabidopsis thaliana seedlings and stem thin cell layers by a cross-talk with ethylene signalling and a modulation of xylogenesis. *BMC Plant Biology*, **2018**, 18, 182	5.3	30
16	PT-Flax (phenotyping and TILLinG of flax): development of a flax (Linum usitatissimum L.) mutant population and TILLinG platform for forward and reverse genetics. *BMC Plant Biology*, **2013**, 13, 159	5.3	29
15	Pinoresinol-lariciresinol reductases, key to the lignan synthesis in plants. *Planta*, **2019**, 249, 1695-1714	4.7	27
14	Role of RLK1L Cell Wall Sensors HERCULES1 and 2, THESEUS1, and FERONIA in Growth Adaptation Triggered by Heavy Metals and Trace Elements. *Frontiers in Plant Science*, **2017**, 8, 1554	6.2	26
13	Adventitious Root Formation: New Insights and Perspectives127-156		26
12	Identification of new adventitious rooting mutants amongst suppressors of the Arabidopsis thaliana superroot2 mutation. *Journal of Experimental Botany*, **2014**, 65, 1605-18	7	25
11	Transcriptional responses of Medicago truncatula upon sulfur deficiency stress and arbuscular mycorrhizal symbiosis. *Frontiers in Plant Science*, **2014**, 5, 680	6.2	20
10	Antisense transgenesis of tobacco with a flax pectin methylesterase affects pollen ornamentation. *Protoplasma*, **2003**, 222, 205-9	3.4	17
9	A multi-omics analysis of the regulatory changes induced by miR-223 in a monocyte/macrophage cell line. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 2664-2678	6.9	17
8	Adventitious Root Formation: New Insights and Perspectives **2018**, 127-156		16
7	The control exerted by ABA on lignan biosynthesis in flax (Linum usitatissimum L.) is modulated by a Ca signal transduction involving the calmodulin-like LuCML15b. *Journal of Plant Physiology*, **2019**, 236, 74-87	3.6	13
6	AtPME3, a ubiquitous cell wall pectin methylesterase of Arabidopsis thaliana, alters the metabolism of cruciferin seed storage proteins during post-germinative growth of seedlings. *Journal of Experimental Botany*, **2017**, 68, 1083-1095	7	10
5	Activity of a flax pectin methylesterase promoter in transgenic tobacco pollen. *Journal of Plant Physiology*, **2003**, 160, 977-9	3.6	7
4	A novel viable allele of Arabidopsis CULLIN1 identified in a screen for superroot2 suppressors by next generation sequencing-assisted mapping. *PLoS ONE*, **2014**, 9, e100846	3.7	6
3	NMR and LC-MS-Based Metabolomics to Study Osmotic Stress in Lignan-Deficient Flax. *Molecules*, **2021**, 26,	4.8	5
2	Cloning and molecular characterization of three lysophosphatidic acid acyltransferases expressed in flax seeds. *Plant Science*, **2019**, 280, 41-50	5.3	3
1	A possible role of prolyl oligopeptidase during Linum usitatissimum (flax) seed development. *Plant Biology*, **2008**, 10, 398-402	3.7	2