Jean-Pierre Metraux

List of Publications by Year in Descending Order

83 papers	12,345 citations	52 h-index	84 g-index
84 ext. papers	13,750 ext. citations	6.6 avg, IF	5.97 L-index

#	Paper	IF	Citations
83	The Cuticle Mutant eca2 Modifies Plant Defense Responses to Biotrophic and Necrotrophic Pathogens and Herbivory Insects. *Molecular Plant-Microbe Interactions*, **2018**, 31, 344-355	3.6	17
82	Salicylic Acid **2018**, 229-255		
81	In roots of Arabidopsis thaliana, the damage-associated molecular pattern AtPep1 is a stronger elicitor of immune signalling than flg22 or the chitin heptamer. *PLoS ONE*, **2017**, 12, e0185808	3.7	42
80	The Innate Immune Signaling System as a Regulator of Disease Resistance and Induced Systemic Resistance Activity Against Verticillium dahliae. *Molecular Plant-Microbe Interactions*, **2016**, 29, 313-23	3.6	28
79	The microbiome of the leaf surface of Arabidopsis protects against a fungal pathogen. *New Phytologist*, **2016**, 210, 1033-43	9.8	177
78	Localization and expression of EDS5H a homologue of the SA transporter EDS5. *BMC Plant Biology*, **2015**, 15, 135	5.3	7
77	Reactive oxygen species and plant resistance to fungal pathogens. *Phytochemistry*, **2015**, 112, 54-62	4	167
76	Chromatin assembly factor CAF-1 represses priming of plant defence response genes. *Nature Plants*, **2015**, 1, 15127	11.5	43
75	Mechanisms of Defence to Pathogens: Biochemistry and Physiology **2014**, 106-136		3
74	The cuticle and plant defense to pathogens. *Frontiers in Plant Science*, **2014**, 5, 274	6.2	178
73	Plant cell wall in pathogenesis, parasitism and symbiosis. *Frontiers in Plant Science*, **2014**, 5, 612	6.2	19
72	Perception of soft mechanical stress in Arabidopsis leaves activates disease resistance. *BMC Plant Biology*, **2013**, 13, 133	5.3	77
71	Production of reactive oxygen species and wound-induced resistance in Arabidopsis thaliana against Botrytis cinerea are preceded and depend on a burst of calcium. *BMC Plant Biology*, **2013**, 13, 160	5.3	48
70	Export of salicylic acid from the chloroplast requires the multidrug and toxin extrusion-like transporter EDS5. *Plant Physiology*, **2013**, 162, 1815-21	6.6	141
69	The glutaredoxin ATGRXS13 is required to facilitate Botrytis cinerea infection of Arabidopsis thaliana plants. *Plant Journal*, **2011**, 68, 507-19	6.9	70
68	Tobacco leaf spot and root rot caused by Rhizoctonia solani Kühn. *Molecular Plant Pathology*, **2011**, 12, 209-16	5.7	34
67	Salicylic acid and its location in response to biotic and abiotic stress. *FEBS Letters*, **2011**, 585, 1847-52	3.8	94

66	A member of the PLEIOTROPIC DRUG RESISTANCE family of ATP binding cassette transporters is required for the formation of a functional cuticle in Arabidopsis. *Plant Cell*, **2011**, 23, 1958-70	11.6	138
65	A permeable cuticle is associated with the release of reactive oxygen species and induction of innate immunity. *PLoS Pathogens*, **2011**, 7, e1002148	7.6	96
64	Insect eggs suppress plant defence against chewing herbivores. *Plant Journal*, **2010**, 62, 876-85	6.9	157
63	Over-expression of a protein kinase gene enhances the defense of tobacco against Rhizoctonia solani. *Gene*, **2010**, 452, 54-62	3.8	12
62	Arabidopsis thaliana class-II TGA transcription factors are essential activators of jasmonic acid/ethylene-induced defense responses. *Plant Journal*, **2010**, 61, 200-10	6.9	146
61	Chapter 2 Plant Pathogens as Suppressors of Host Defense. *Advances in Botanical Research*, **2009**, 39-89	2.2	10
60	MAP kinase phosphatase1 and protein tyrosine phosphatase1 are repressors of salicylic acid synthesis and SNC1-mediated responses in Arabidopsis. *Plant Cell*, **2009**, 21, 2884-97	11.6	170
59	The ABC transporter BcatrB from Botrytis cinerea exports camalexin and is a virulence factor on Arabidopsis thaliana. *Plant Journal*, **2009**, 58, 499-510	6.9	127
58	Wounding of Arabidopsis leaves causes a powerful but transient protection against Botrytis infection. *Plant Journal*, **2008**, 55, 555-67	6.9	92
57	Salicylic acid production in response to biotic and abiotic stress depends on isochorismate in Nicotiana benthamiana. *FEBS Letters*, **2008**, 582, 473-8	3.8	170
56	The cuticle: Not only a barrier for plant defence: A novel defence syndrome in plants with cuticular defects. *Plant Signaling and Behavior*, **2008**, 3, 142-4	2.5	29
55	Characterization and biological function of the ISOCHORISMATE SYNTHASE2 gene of Arabidopsis. *Plant Physiology*, **2008**, 147, 1279-87	6.6	255
54	The protein phosphatase 7 regulates phytochrome signaling in Arabidopsis. *PLoS ONE*, **2008**, 3, e2699	3.7	19
53	Salicylic Acid **2007**, 229-255		9
52	A permeable cuticle in Arabidopsis leads to a strong resistance to Botrytis cinerea. *EMBO Journal*, **2007**, 26, 2158-68	13	207
51	Cuticular defects lead to full immunity to a major plant pathogen. *Plant Journal*, **2007**, 49, 972-80	6.9	174
50	Oxalate-degrading bacteria can protect Arabidopsis thaliana and crop plants against botrytis cinerea. *Molecular Plant-Microbe Interactions*, **2007**, 20, 1535-44	3.6	57
49	Chemical Signals in Plant Resistance: Salicylic Acid **2006**, 143-165		1

48	The epidermis-specific extracellular BODYGUARD controls cuticle development and morphogenesis in Arabidopsis. *Plant Cell*, **2006**, 18, 321-39	11.6	207
47	A novel cucumber gene associated with systemic acquired resistance. *Plant Science*, **2006**, 171, 555-564	5.3	8
46	FiRe and microarrays: a fast answer to burning questions. *Trends in Plant Science*, **2006**, 11, 320-2	13.1	43
45	Dissecting the beta-aminobutyric acid-induced priming phenomenon in Arabidopsis. *Plant Cell*, **2005**, 17, 987-99	11.6	295
44	Signal signature and transcriptome changes of Arabidopsis during pathogen and insect attack. *Molecular Plant-Microbe Interactions*, **2005**, 18, 923-37	3.6	751
43	Update in bioinformatics. Toward a digital database of plant cell signalling networks: advantages, limitations and predictive aspects of the digital model. *Phytochemistry*, **2005**, 66, 267-76	4	7
42	Enhancing Arabidopsis salt and drought stress tolerance by chemical priming for its abscisic acid responses. *Plant Physiology*, **2005**, 139, 267-74	6.6	325
41	Gene-specific involvement of beta-oxidation in wound-activated responses in Arabidopsis. *Plant Physiology*, **2004**, 135, 85-94	6.6	125
40	The Role of Salicylic Acid and Nitric Oxide in Programmed Cell Death and Induced Resistance. *Ecological Studies*, **2004**, 111-150	1.1	6
39	The rapid induction of glutathione S-transferases AtGSTF2 and AtGSTF6 by avirulent Pseudomonas syringae is the result of combined salicylic acid and ethylene signaling. *Plant and Cell Physiology*, **2003**, 44, 750-7	4.9	62
38	Topology of the network integrating salicylate and jasmonate signal transduction derived from global expression phenotyping. *Plant Journal*, **2003**, 34, 217-28	6.9	423
37	Genetic evidence that expression of NahG modifies defence pathways independent of salicylic acid biosynthesis in the Arabidopsis-Pseudomonas syringae pv. tomato interaction. *Plant Journal*, **2003**, 36, 342-52	6.9	121
36	NPR1 modulates cross-talk between salicylate- and jasmonate-dependent defense pathways through a novel function in the cytosol. *Plant Cell*, **2003**, 15, 760-70	11.6	871
35	Induced systemic resistance in Arabidopsis thaliana in response to root inoculation with Pseudomonas fluorescens CHA0. *Molecular Plant-Microbe Interactions*, **2003**, 16, 851-8	3.6	343
34	Molecular characterization of a novel lipase-like pathogen-inducible gene family of Arabidopsis. *Plant Physiology*, **2003**, 132, 2230-9	6.6	41
33	Networks of Cellular Information Processing: Digital Description and Simulation. *Current Genomics*, **2003**, 4, 27-36	2.6	4
32	Characterization of Arabidopsis enhanced disease susceptibility mutants that are affected in systemically induced resistance. *Plant Journal*, **2002**, 29, 11-21	6.9	91
31	Phytochrome signalling modulates the SA-perceptive pathway in Arabidopsis. *Plant Journal*, **2002**, 31, 87-95	6.9	207

30	Systemic acquired resistance. *Euphytica*, **2002**, 124, 237-243	2.1	58
29	EDS5, an essential component of salicylic acid-dependent signaling for disease resistance in Arabidopsis, is a member of the MATE transporter family. *Plant Cell*, **2002**, 14, 275-86	11.6	454
28	Recent breakthroughs in the study of salicylic acid biosynthesis. *Trends in Plant Science*, **2002**, 7, 332-4	13.1	132
27	Aminobutyric Acid-induced Resistance in Plants. *European Journal of Plant Pathology*, **2001**, 107, 29-37	2.1	212
26	beta-Aminobutyric acid-induced protection of Arabidopsis against the necrotrophic fungus Botrytis cinerea. *Plant Physiology*, **2001**, 126, 517-23	6.6	227
25	Transgenic Arabidopsis Plants Expressing a Fungal Cutinase Show Alterations in the Structure and Properties of the Cuticle and Postgenital Organ Fusions. *Plant Cell*, **2000**, 12, 721	11.6	4
24	Transgenic Arabidopsis plants expressing a fungal cutinase show alterations in the structure and properties of the cuticle and postgenital organ fusions. *Plant Cell*, **2000**, 12, 721-38	11.6	233
23	Rhizobacteria-mediated induced systemic resistance (ISR) in Arabidopsis requires sensitivity to jasmonate and ethylene but is not accompanied by an increase in their production. *Physiological and Molecular Plant Pathology*, **2000**, 57, 123-134	2.6	190
22	Nanogram amounts of salicylic acid produced by the rhizobacterium Pseudomonas aeruginosa 7NSK2 activate the systemic acquired resistance pathway in bean. *Molecular Plant-Microbe Interactions*, **1999**, 12, 450-8	3.6	174
21	Crosstalk in plant cell signaling: structure and function of the genetic network. *Trends in Plant Science*, **1999**, 4, 503-507	13.1	151
20	Salicylic acid induction-deficient mutants of Arabidopsis express PR-2 and PR-5 and accumulate high levels of camalexin after pathogen inoculation. *Plant Cell*, **1999**, 11, 1393-404	11.6	658
19	Salicylic Acid Induction-Deficient Mutants of Arabidopsis Express PR-2 and PR-5 and Accumulate High Levels of Camalexin after Pathogen Inoculation. *Plant Cell*, **1999**, 11, 1393	11.6	376
18	Induced systemic resistance in wounded rice plants. *Plant Journal*, **1998**, 14, 475-481	6.9	74
17	Concomitant activation of jasmonate and ethylene response pathways is required for induction of a plant defensin gene in Arabidopsis. *Plant Cell*, **1998**, 10, 2103-13	11.6	867
16	Salicylic Acid Accumulation in Barley Is Pathogen Specific but Not Required for Defense-Gene Activation. *Molecular Plant-Microbe Interactions*, **1998**, 11, 702-705	3.6	52
15	Pathogen-Induced Systemic Activation of a Plant Defensin Gene in Arabidopsis Follows a Salicylic Acid-Independent Pathway. *Plant Cell*, **1996**, 8, 2309	11.6	87
14	A benzothiadiazole derivative induces systemic acquired resistance in tobacco. *Plant Journal*, **1996**, 10, 61-70	6.9	555
13	Perception of free cutin monomers by plant cells. *Plant Journal*, **1996**, 10, 331-341	6.9	100

12	Plant Protection by Free Cutin Monomers in Two Cereal Pathosystems. *Current Plant Science and Biotechnology in Agriculture*, **1994**, 371-374		12
11	Coordinate Gene Activity in Response to Agents That Induce Systemic Acquired Resistance. *Plant Cell*, **1991**, 3, 1085	11.6	252
10	Pseudomonas syringae pv. syringae induces systemic resistance to Pyricularia oryzae in rice. *Physiological and Molecular Plant Pathology*, **1991**, 39, 451-461	2.6	100
9	Gibberellins and Plant Cell Elongation **1987**, 296-317		18
8	The role of ethylene in the growth response of submerged deep water rice. *Plant Physiology*, **1983**, 72, 441-6	6.6	206
7	Changes in cell-wall polysaccharide composition of developingNitella internodes : Analysis of walls of single cells. *Planta*, **1982**, 155, 459-66	4.7	18
6	Cell expansion patterns and directionality of wall mechanical properties in nitella. *Plant Physiology*, **1980**, 65, 211-7	6.6	70
5	Control of Cell Elongation in Nitella by Endogenous Cell Wall pH Gradients: MULTIAXIAL EXTENSIBILITY AND GROWTH STUDIES. *Plant Physiology*, **1980**, 65, 204-10	6.6	71
4	Transverse Viscoelastic Extension in Nitella: II. Effects of Acid and Ions. *Plant Physiology*, **1979**, 63, 657-9	6.6	12
3	Transverse viscoelastic extension in nitella: I. Relationship to growth rate. *Plant Physiology*, **1978**, 61, 135-8	6.6	22
2	Salicylic Acid and Induced Plant Defenses202-210		3
1	Mechanisms of Defence to Pathogens: Biochemistry and Physiology109-132		13