

# Felice Cervone

## List of Publications by Year in descending order

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106  
papers

9,255  
citations

30070

54  
h-index

39675

94  
g-index

108  
all docs

108  
docs citations

108  
times ranked

6539  
citing authors

#	ARTICLE	IF	CITATIONS
1	A domain swap approach reveals a role of the plant wall-associated kinase 1 (WAK1) as a receptor of oligogalacturonides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9452-9457.	7.1	638
2	Oligogalacturonides: plant damage-associated molecular patterns and regulators of growth and development. <i>Frontiers in Plant Science</i> , 2013, 4, 49.	3.6	401
3	Plant cell wall dynamics and wall-related susceptibility in plant- $\alpha$ -pathogen interactions. <i>Frontiers in Plant Science</i> , 2014, 5, 228.	3.6	348
4	Overexpression of Pectin Methylesterase Inhibitors in Arabidopsis Restricts Fungal Infection by <i>Botrytis cinerea</i> . <i>Plant Physiology</i> , 2007, 143, 1871-1880.	4.8	329
5	THE ROLE OF POLYGALACTURONASE-INHIBITING PROTEINS (PGIPS) IN DEFENSE AGAINST PATHOGENIC FUNGI. <i>Annual Review of Phytopathology</i> , 2001, 39, 313-335.	7.8	325
6	Wounding in the plant tissue: the defense of a dangerous passage. <i>Frontiers in Plant Science</i> , 2014, 5, 470.	3.6	279
7	Host-Pathogen Interactions. <i>Plant Physiology</i> , 1989, 90, 542-548.	4.8	262
8	Extracellular H <sub>2</sub> O <sub>2</sub> Induced by Oligogalacturonides Is Not Involved in the Inhibition of the Auxin-Regulated rolB Gene Expression in Tobacco Leaf Explants. <i>Plant Physiology</i> , 2000, 122, 1379-1386.	4.8	248
9	Tandemly Duplicated Arabidopsis Genes That Encode Polygalacturonase-Inhibiting Proteins Are Regulated Coordinately by Different Signal Transduction Pathways in Response to Fungal Infection. <i>Plant Cell</i> , 2003, 15, 93-106.	6.6	240
10	The specificity of polygalacturonase-inhibiting protein (PGIP): a single amino acid substitution in the solvent-exposed $\beta^2$ -strand/ $\beta^2$ -turn region of the leucine-rich repeats (LRRs) confers a new recognition capability. <i>EMBO Journal</i> , 1999, 18, 2352-2363.	7.8	214
11	Methyl esterification of pectin plays a role during plant-pathogen interactions and affects plant resistance to diseases. <i>Journal of Plant Physiology</i> , 2012, 169, 1623-1630.	3.5	213
12	Structural Basis for the Interaction between Pectin Methylesterase and a Specific Inhibitor Protein. <i>Plant Cell</i> , 2005, 17, 849-858.	6.6	207
13	The crystal structure of polygalacturonase-inhibiting protein (PGIP), a leucine-rich repeat protein involved in plant defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10124-10128.	7.1	195
14	Engineering the cell wall by reducing de-methyl-esterified homogalacturonan improves saccharification of plant tissues for bioconversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 616-621.	7.1	192
15	Plant immunity triggered by engineered in vivo release of oligogalacturonides, damage-associated molecular patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5533-5538.	7.1	179
16	Polygalacturonase inhibiting proteins: players in plant innate immunity?. <i>Trends in Plant Science</i> , 2006, 11, 65-70.	8.8	153
17	Plant neurobiology: no brain, no gain?. <i>Trends in Plant Science</i> , 2007, 12, 135-136.	8.8	146
18	Pectin Methylesterase Is Induced in <i>Arabidopsis</i> upon Infection and Is Necessary for a Successful Colonization by Necrotrophic Pathogens. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 432-440.	2.6	146

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19	Purification and Characterization of a Polygalacturonase-Inhibiting Protein from <i>Phaseolus vulgaris</i> L. <i>Plant Physiology</i> , 1987, 85, 631-637.	4.8	131
20	Structural requirements of endopolygalacturonase for the interaction with PGIP (polygalacturonase-inhibiting protein). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 13425-13430.	7.1	131
21	Competitive inhibition of the auxin-induced elongation by $\beta$ -D-oligogalacturonides in pea stem segments. <i>Physiologia Plantarum</i> , 1988, 72, 499-504.	5.2	125
22	An update on polygalacturonase-inhibiting protein (PGIP), a leucine-rich repeat protein that protects crop plants against pathogens. <i>Frontiers in Plant Science</i> , 2015, 6, 146.	3.6	125
23	Cloning and characterization of the gene encoding the endopolygalacturonase-inhibiting protein (PGIP) of <i>Phaseolus vulgaris</i> L. <i>Plant Journal</i> , 1992, 2, 367-373.	5.7	115
24	Four <i>Arabidopsis</i> berberine bridge enzyme-like proteins are specific oxidases that inactivate the elicitor-active oligogalacturonides. <i>Plant Journal</i> , 2018, 94, 260-273.	5.7	114
25	Polygalacturonase-Inhibiting Proteins (PGIPs) with Different Specificities Are Expressed in <i>Phaseolus vulgaris</i> . <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 852-860.	2.6	112
26	Transgenic Expression of a Fungal endo-Polygalacturonase Increases Plant Resistance to Pathogens and Reduces Auxin Sensitivity. <i>Plant Physiology</i> , 2008, 146, 323-324.	4.8	112
27	Cell wall traits that influence plant development, immunity, and bioconversion. <i>Plant Journal</i> , 2019, 97, 134-147.	5.7	106
28	Polygalacturonase-inhibiting protein accumulates in <i>Phaseolus vulgaris</i> L. in response to wounding, elicitors and fungal infection. <i>Plant Journal</i> , 1994, 5, 625-634.	5.7	105
29	Extracellular DAMPs in Plants and Mammals: Immunity, Tissue Damage and Repair. <i>Trends in Immunology</i> , 2018, 39, 937-950.	6.8	105
30	Elicitation of Necrosis in <i>Vigna unguiculata</i> Walp. by Homogeneous <i>Aspergillus niger</i> Endo-Polygalacturonase and by $\beta$ -D-Galacturonate Oligomers. <i>Plant Physiology</i> , 1987, 85, 626-630.	4.8	102
31	Two <i>Arabidopsis thaliana</i> genes encode functional pectin methylesterase inhibitors1. <i>FEBS Letters</i> , 2004, 557, 199-203.	2.8	97
32	Engineering plant resistance by constructing chimeric receptors that recognize damage-associated molecular patterns (DAMPs). <i>FEBS Letters</i> , 2011, 585, 1521-1528.	2.8	95
33	Cloning and characterization of the gene encoding the endo polygalacturonase-inhibiting protein (PGIP) of <i>Phaseolus vulgaris</i> L. <i>Plant Journal</i> , 1992, 2, 367-373.	5.7	95
34	Oligogalacturonides inhibit the formation of roots on tobacco explants. <i>Plant Journal</i> , 1993, 4, 207-213.	5.7	91
35	Oligogalacturonides Prevent Rhizogenesis in rolB-Transformed Tobacco Explants by Inhibiting Auxin-Induced Expression of the rolB Gene.. <i>Plant Cell</i> , 1996, 8, 477-487.	6.6	88
36	Polygalacturonase-inhibiting protein (PGIP) in plant defence: a structural view. <i>Phytochemistry</i> , 2006, 67, 528-533.	2.9	88

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37	Polygalacturonase-Inhibiting Protein Interacts with Pectin through a Binding Site Formed by Four Clustered Residues of Arginine and Lysine. <i>Plant Physiology</i> , 2006, 141, 557-564.	4.8	88
38	Antisense Expression of the Arabidopsis thaliana AtPGIP1 Gene Reduces Polygalacturonase-Inhibiting Protein Accumulation and Enhances Susceptibility to Botrytis cinerea. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 931-936.	2.6	87
39	Polygalacturonase, PGIP and oligogalacturonides in cell-cell communication. <i>Biochemical Society Transactions</i> , 1994, 22, 394-397.	3.4	86
40	Can Phaseolus PGIP inhibit pectic enzymes from microbes and plants?. <i>Phytochemistry</i> , 1990, 29, 447-449.	2.9	85
41	An Arabidopsis berberine bridge enzyme-like protein specifically oxidizes cellulose oligomers and plays a role in immunity. <i>Plant Journal</i> , 2019, 98, 540-554.	5.7	80
42	GRP-3 and KAPP, encoding interactors of WAK1, negatively affect defense responses induced by oligogalacturonides and local response to wounding. <i>Journal of Experimental Botany</i> , 2016, 67, 1715-1729.	4.8	77
43	Targeted Mutants of Cochliobolus carbonum Lacking the Two Major Extracellular Polygalacturonases. <i>Applied and Environmental Microbiology</i> , 1998, 64, 1497-1503.	3.1	76
44	Cloning and characterization of a gene encoding the endopolygalacturonase of Fusarium moniliforme. <i>Mycological Research</i> , 1993, 97, 497-505.	2.5	72
45	Mutagenesis of Endopolygalacturonase from <i>Fusarium moniliforme</i> : Histidine Residue 234 Is Critical for Enzymatic and Macerating Activities and Not for Binding to Polygalacturonase-Inhibiting Protein (PGIP). <i>Molecular Plant-Microbe Interactions</i> , 1996, 9, 617.	2.6	69
46	Integration of evolutionary and desolvation energy analysis identifies functional sites in a plant immunity protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7666-7671.	7.1	68
47	Transgenic expression of pectin methylesterase inhibitors limits tobamovirus spread in tobacco and Arabidopsis. <i>Molecular Plant Pathology</i> , 2014, 15, 265-274.	4.2	67
48	Identification by 2D DIGE of apoplastic proteins regulated by oligogalacturonides in Arabidopsis thaliana. <i>Proteomics</i> , 2008, 8, 1042-1054.	2.2	63
49	A functional pectin methylesterase inhibitor protein (SolyPMEI) is expressed during tomato fruit ripening and interacts with PME-1. <i>Plant Molecular Biology</i> , 2012, 79, 429-442.	3.9	63
50	Secondary Structure and Post-Translational Modifications of the Leucine-Rich Repeat Protein PGIP (Polygalacturonase-Inhibiting Protein) from Phaseolus vulgaris. <i>Biochemistry</i> , 2001, 40, 569-576.	2.5	62
51	A Polygalacturonase-Inhibiting Protein in the Flowers of Phaseolus vulgaris L.. <i>Journal of Plant Physiology</i> , 1990, 136, 513-518.	3.5	60
52	Targeted Modification of Homogalacturonan by Transgenic Expression of a Fungal Polygalacturonase Alters Plant Growth. <i>Plant Physiology</i> , 2004, 135, 1294-1304.	4.8	59
53	Expression and localization of polygalacturonase during the outgrowth of lateral roots in Allium porrum L.. <i>Planta</i> , 1992, 188, 164-172.	3.2	58
54	A leucine-rich repeat receptor-like protein kinase (LRPKm1) gene is induced in Malus x domestica by Venturia inaequalis infection and salicylic acid treatment. <i>Plant Molecular Biology</i> , 1999, 40, 945-957.	3.9	58

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55	The Arabidopsis NUCLEUS- AND PHRAGMOPLAST-LOCALIZED KINASE1-Related Protein Kinases Are Required for Elicitor-Induced Oxidative Burst and Immunity. <i>Plant Physiology</i> , 2014, 165, 1188-1202.	4.8	57
56	<i>Fusarium moniliforme</i> secretes four endopolygalacturonases derived from a single gene product. <i>Physiological and Molecular Plant Pathology</i> , 1993, 43, 453-462.	2.5	56
57	The Arabidopsis thaliana Class III Peroxidase AtPRX71 Negatively Regulates Growth under Physiological Conditions and in Response to Cell Wall Damage.. <i>Plant Physiology</i> , 2015, 169, pp.01464.2015.	4.8	56
58	Cytological localization of thePGIP genes in the embryo suspensor cells ofPhaseolus vulgaris L. <i>Theoretical and Applied Genetics</i> , 1993, 87, 369-373.	3.6	54
59	Endopolygalacturonase Is Not Required for Pathogenicity of Cochliobolus carbonum on Maize. <i>Plant Cell</i> , 1990, 2, 1191.	6.6	53
60	The Polygalacturonase-Inhibiting Protein PGIP2 of Phaseolus vulgaris Has Evolved a Mixed Mode of Inhibition of Endopolygalacturonase PG1 of Botrytis cinerea. <i>Plant Physiology</i> , 2005, 139, 1380-1388.	4.8	53
61	Endopolygalacturonase from the maize pathogen Cochliobolus carbonum. <i>Physiological and Molecular Plant Pathology</i> , 1990, 36, 351-359.	2.5	47
62	Crystal structure of the endopolygalacturonase from the phytopathogenic fungus <i>Colletotrichum lupini</i> and its interaction with polygalacturonase-inhibiting proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 294-299.	2.6	45
63	The promoter of a gene encoding a polygalacturonase-inhibiting protein of Phaseolus vulgaris L. is activated by wounding but not by elicitors or pathogen infection. <i>Planta</i> , 1998, 205, 165-174.	3.2	44
64	Analysis of pectin mutants and natural accessions of Arabidopsis highlights the impact of de-methyl-esterified homogalacturonan on tissue saccharification. <i>Biotechnology for Biofuels</i> , 2013, 6, 163.	6.2	44
65	Differential accumulation of PGIP (polygalacturonase-inhibiting protein) mRNA in two near-isogenic lines ofPhaseolus vulgarisL. upon infection withColletotrichum lindemuthianum. <i>Physiological and Molecular Plant Pathology</i> , 1996, 48, 83-89.	2.5	43
66	Immune responses induced by oligogalacturonides are differentially affected by AvrPto and loss of BAK1/BKK1 and PEPR1/PEPR2. <i>Molecular Plant Pathology</i> , 2017, 18, 582-595.	4.2	42
67	Host-pathogen interactions. XXXVII. Abilities of the Polygalacturonase-inhibiting proteins from four cultivars of Phaseolus vulgaris to inhibit the endopolygalacturonases from three races of Colletotrichum lindemuthianum. <i>Physiological and Molecular Plant Pathology</i> , 1990, 36, 421-435.	2.5	41
68	Dampening the DAMPs: How Plants Maintain the Homeostasis of Cell Wall Molecular Patterns and Avoid Hyper-Immunity. <i>Frontiers in Plant Science</i> , 2020, 11, 613259.	3.6	39
69	Structural Resolution of the Complex between a Fungal Polygalacturonase and a Plant Polygalacturonase-Inhibiting Protein by Small-Angle X-Ray Scattering Å. <i>Plant Physiology</i> , 2011, 157, 599-607.	4.8	38
70	Elicitation of phenylalanine ammonia-lyase in Daucus carota by oligogalacturonides released from sodium polypectate by homogeneous polygalacturonase. <i>Plant Science</i> , 1987, 51, 147-150.	3.6	36
71	A gene for plant protection: expression of a bean polygalacturonase inhibitor in tobacco confers a strong resistance against Rhizoctonia solani and two oomycetes. <i>Frontiers in Plant Science</i> , 2012, 3, 268.	3.6	34
72	Endopolygalacturonase from Rhizoctonia fragariae Purification and characterization of two isoenzymes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977, 482, 379-385.	2.6	32

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73	Developmental and pathogen-induced accumulation of transcripts of polygalacturonase-inhibiting protein in <i>Phaseolus vulgaris</i> L.. <i>Planta</i> , 1997, 202, 284-292.	3.2	32
74	Bacterial endopectate lyase: evidence that plant cell wall pH prevents tissue maceration and increases the half-life of elicitor-active oligogalacturonides. <i>Physiological and Molecular Plant Pathology</i> , 1991, 39, 335-344.	2.5	31
75	A lower content of de-methylesterified homogalacturonan improves enzymatic cell separation and isolation of mesophyll protoplasts in <i>Arabidopsis</i> . <i>Phytochemistry</i> , 2015, 112, 188-194.	2.9	29
76	Controlled expression of pectic enzymes in <i>Arabidopsis thaliana</i> enhances biomass conversion without adverse effects on growth. <i>Phytochemistry</i> , 2015, 112, 221-230.	2.9	27
77	Sensitive detection and measurement of oligogalacturonides in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 06, 258.	3.6	26
78	A Polygalacturonase-Inhibiting Protein in Alfalfa Callus Cultures. <i>Journal of Plant Physiology</i> , 1988, 133, 364-366.	3.5	24
79	The Interaction between Endopolygalacturonase from <i>Fusarium moniliforme</i> and PGIP from <i>Phaseolus vulgaris</i> Studied by Surface Plasmon Resonance and Mass Spectrometry. <i>Comparative and Functional Genomics</i> , 2001, 2, 359-364.	2.0	23
80	A Single Amino-Acid Substitution Allows Endo-Polygalacturonase of <i>Fusarium verticillioides</i> to Acquire Recognition by PGIP2 from <i>Phaseolus vulgaris</i> . <i>PLoS ONE</i> , 2013, 8, e80610.	2.5	23
81	Polygalacturonase-Inhibiting Proteins (PGIPs): Their Role in Specificity and Defense against Pathogenic Fungi. , 1997, , 76-93.		22
82	Simple procedures for the separation and identification of bovine milk whey proteins. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1973, 295, 555-563.	1.7	21
83	An EFR-ERL chimera confers enhanced resistance to bacterial pathogens by SOBIR1- and BAK1-dependent recognition of elf18. <i>Molecular Plant Pathology</i> , 2019, 20, 751-764.	4.2	19
84	Pectinolytic activity in some ericoid mycorrhizal fungi. <i>Transactions of the British Mycological Society</i> , 1988, 91, 537-539.	0.6	18
85	Three aspartic acid residues of polygalacturonase-inhibiting protein (PGIP) from <i>Phaseolus vulgaris</i> are critical for inhibition of <i>Fusarium phylophilum</i> PG. <i>Plant Biology</i> , 2009, 11, 738-743.	3.8	18
86	How do pectin methylesterases and their inhibitors affect the spreading of tobamovirus?. <i>Plant Signaling and Behavior</i> , 2014, 9, e972863.	2.4	17
87	Dansyl chloride binding to proteins quantitative estimation of N-terminal, lysyl, and tyrosyl residues by the radioactive reagent. <i>Analytical Biochemistry</i> , 1974, 57, 38-45.	2.4	16
88	Oligogalacturonides Prevent Rhizogenesis in rolB-Transformed Tobacco Explants by Inhibiting Auxin-Induced Expression of the rolB Gene. <i>Plant Cell</i> , 1996, 8, 477.	6.6	16
89	Reduced Content of Homogalacturonan Does Not Alter the Ion-Mediated Increase in Xylem Hydraulic Conductivity in Tobacco. <i>Plant Physiology</i> , 2007, 143, 1975-1981.	4.8	15
90	The pgip family in soybean and three other legume species: evidence for a birth-and-death model of evolution. <i>BMC Plant Biology</i> , 2014, 14, 189.	3.6	15

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91	Characterization of a membrane-associated apoplastic lipoxygenase in <i>Phaseolus vulgaris</i> L.. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1748, 9-19.	2.3	14
92	Plant immunity by damage-associated molecular patterns (DAMPs). <i>Essays in Biochemistry</i> , 2022, 66, 459-469.	4.7	13
93	The intracellular <sc>ROS</sc> accumulation in elicitorâ€induced immunity requires the multiple organelleâ€targeted Arabidopsis <sc>NPK1</sc>â€related protein kinases. <i>Plant, Cell and Environment</i> , 2021, 44, 931-947.	5.7	11
94	The action of O-methyl-threonine and thiaisoleucine on threonine deaminase purified from <i>Escherichia coli</i> K-12. <i>FEBS Letters</i> , 1972, 26, 56-60.	2.8	10
95	Oligogalacturonide-induced changes in the nuclear proteome of <i>Arabidopsis thaliana</i> . <i>International Journal of Mass Spectrometry</i> , 2007, 268, 277-283.	1.5	10
96	Combination of Pretreatment with White Rot Fungi and Modification of Primary and Secondary Cell Walls Improves Saccharification. <i>Bioenergy Research</i> , 2015, 8, 175-186.	3.9	10
97	Loss of the Arabidopsis Protein Kinases ANPs Affects Root Cell Wall Composition, and Triggers the Cell Wall Damage Syndrome. <i>Frontiers in Plant Science</i> , 2018, 8, 2234.	3.6	10
98	Dual autogenous regulatory role of threonine deaminase in <i>Escherichia coli</i> K-12. <i>Molecular Genetics and Genomics</i> , 1978, 159, 27-32.	2.4	9
99	Berberine Bridge Enzyme-like Oligosaccharide Oxidases Act as Enzymatic Transducers Between Microbial Glycoside Hydrolases and Plant Peroxidases. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 881-886.	2.6	9
100	Enhancing immunity by engineering DAMPs. <i>Oncotarget</i> , 2015, 6, 28523-28524.	1.8	7
101	Isolation and characterization of pectin inducible cDNA clones from the phytopathogenic fungus <i>Fusarium moniliforme</i> . <i>Mycological Research</i> , 1990, 94, 635-640.	2.5	5
102	Crystallization and preliminary X-ray diffraction study of the endo-polygalacturonase from <i>Fusarium moniliforme</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1359-1361.	2.5	4
103	Extracellular Accumulation of an Auxin-regulated Protein in <i>Phaseolus vulgaris</i> L. Cells is Inhibited by Oligogalacturonides. <i>Journal of Plant Physiology</i> , 1995, 147, 367-370.	3.5	3
104	The Role of the Sulphydryl Groups of Spleen Deoxycytidylate Aminohydrolase. <i>FEBS Journal</i> , 1974, 46, 401-405.	0.2	1
105	Extracellular Accumulation of an Auxin-Regulated Protein in <i>Phaseolus Vulgaris</i> L. Cells is Inhibited by Oligogalacturonides. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1995, 129, 994-995.	0.0	0
106	The accumulation of PGIP is correlated with the hypersensitive response in race/cultivar interactions. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1995, 129, 1130-1131.	0.0	0