

Sacco C De Vries

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Arabidopsis Somatic Embryogenesis Receptor Kinase 1 Gene Is Expressed in Developing Ovules and Embryos and Enhances Embryogenic Competence in Culture. <i>Plant Physiology</i> , 2001, 127, 803-816.	4.8	604
2	The Arabidopsis Leucine-Rich Repeat Receptor-Like Kinases BAK1/SERK3 and BKK1/SERK4 Are Required for Innate Immunity to Hemibiotrophic and Biotrophic Pathogens. <i>Plant Cell</i> , 2011, 23, 2440-2455.	6.6	578
3	Heterodimerization and Endocytosis of Arabidopsis Brassinosteroid Receptors BRI1 and AtSERK3 (BAK1). <i>Plant Cell</i> , 2004, 16, 3216-3229.	6.6	444
4	Endocytic and Secretory Traffic in Arabidopsis Merge in the Trans-Golgi Network/Early Endosome, an Independent and Highly Dynamic Organelle. <i>Plant Cell</i> , 2010, 22, 1344-1357.	6.6	435
5	The CUP-SHAPED COTYLEDON3 Gene Is Required for Boundary and Shoot Meristem Formation in Arabidopsis. <i>Plant Cell</i> , 2003, 15, 1563-1577.	6.6	429
6	The BRI1-Associated Kinase 1, BAK1, Has a Brassinolide-Independent Role in Plant Cell-Death Control. <i>Current Biology</i> , 2007, 17, 1116-1122.	3.9	356
7	Structural Basis for DNA Binding Specificity by the Auxin-Dependent ARF Transcription Factors. <i>Cell</i> , 2014, 156, 577-589.	28.9	348
8	Lipid Transfer Protein: A Pan-Allergen in Plant-Derived Foods That Is Highly Resistant to Pepsin Digestion. <i>International Archives of Allergy and Immunology</i> , 2000, 122, 20-32.	2.1	307
9	Brassinosteroids inhibit pathogen-associated molecular pattern-triggered immune signaling independent of the receptor kinase BAK1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 303-308.	7.1	303
10	The Arabidopsis thaliana SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASES1 and 2 Control Male Sporogenesis. <i>Plant Cell</i> , 2005, 17, 3337-3349.	6.6	289
11	One for all: the receptor-associated kinase BAK1. <i>Trends in Plant Science</i> , 2009, 14, 535-541.	8.8	281
12	SPEECHLESS integrates brassinosteroid and stomata signalling pathways. <i>Nature Cell Biology</i> , 2012, 14, 548-554.	10.3	277
13	The Arabidopsis SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE1 Protein Complex Includes BRASSINOSTEROID-INSENSITIVE1. <i>Plant Cell</i> , 2006, 18, 626-638.	6.6	249
14	N-Acetylglucosamine and Glucosamine-Containing Arabinogalactan Proteins Control Somatic Embryogenesis. <i>Plant Physiology</i> , 2001, 125, 1880-1890.	4.8	223
15	The Leucine-Rich Repeat Receptor Kinase BIR2 Is a Negative Regulator of BAK1 in Plant Immunity. <i>Current Biology</i> , 2014, 24, 134-143.	3.9	219
16	The Host Defense Proteome of Human and Bovine Milk. <i>PLoS ONE</i> , 2011, 6, e19433.	2.5	210
17	Acquisition of embryogenic potential in carrot cell-suspension cultures. <i>Planta</i> , 1988, 176, 196-204.	3.2	207
18	The Arabidopsis kinase-associated protein phosphatase controls internalization of the somatic embryogenesis receptor kinase 1. <i>Genes and Development</i> , 2002, 16, 1707-1720.	5.9	182

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19	Arabidopsis SOMATIC EMBRYOGENESIS RECEPTOR KINASE Proteins Serve Brassinosteroid-Dependent and -Independent Signaling Pathways. <i>Plant Physiology</i> , 2008, 148, 611-619.	4.8	175
20	POLAR-guided signalling complex assembly and localization drive asymmetric cell division. <i>Nature</i> , 2018, 563, 574-578.	27.8	167
21	Plant Embryogenesis. <i>Critical Reviews in Plant Sciences</i> , 1997, 16, 535-576.	5.7	159
22	Somatic Embryogenesis in <i>Arabidopsis thaliana</i> Is Facilitated by Mutations in Genes Repressing Meristematic Cell Divisions. <i>Genetics</i> , 1998, 149, 549-563.	2.9	158
23	Tackling Drought Stress: RECEPTOR-LIKE KINASES Present New Approaches. <i>Plant Cell</i> , 2012, 24, 2262-2278.	6.6	155
24	The PAS fold. <i>FEBS Journal</i> , 2004, 271, 1198-1208.	0.2	151
25	PICKLE Acts throughout the Plant to Repress Expression of Embryonic Traits and May Play a Role in Gibberellin-Dependent Responses. <i>Plant Physiology</i> , 2004, 134, 995-1005.	4.8	148
26	Early events in higher-plant embryogenesis. <i>Plant Molecular Biology</i> , 1993, 22, 367-377.	3.9	139
27	Diversity of abundant mRNA sequences and patterns of protein synthesis in etiolated and greened pea seedlings. <i>Planta</i> , 1982, 156, 129-135.	3.2	136
28	Diploid apomicts of the <i>Boechera holboellii</i> complex display large-scale chromosome substitutions and aberrant chromosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14026-14031.	7.1	136
29	Tunicamycin-inhibited carrot somatic embryogenesis can be restored by secreted cationic peroxidase isoenzymes. <i>Planta</i> , 1991, 184, 478-486.	3.2	128
30	Sexual and Apomictic Reproduction in Hieracium subgenus Pilosella Are Closely Interrelated Developmental Pathways. <i>Plant Cell</i> , 2003, 15, 1524-1537.	6.6	126
31	Subcellular Localization and Oligomerization of the <i>Arabidopsis thaliana</i> Somatic Embryogenesis Receptor Kinase 1 Protein. <i>Journal of Molecular Biology</i> , 2001, 309, 641-655.	4.2	117
32	Description of somatic-embryo-forming single cells in carrot suspension cultures employing video cell tracking. <i>Planta</i> , 1994, 194, 565-572.	3.2	116
33	Gene-expression programs in embryogenic and non-embryogenic carrot cultures. <i>Planta</i> , 1988, 176, 205-211.	3.2	114
34	Expression Pattern of the Carrot EP3Endochitinase Genes in Suspension Cultures and in Developing Seeds. <i>Plant Physiology</i> , 1998, 117, 43-53.	4.8	113
35	Profiling of promoter occupancy by PPAR α in human hepatoma cells via ChIP-chip analysis. <i>Nucleic Acids Research</i> , 2010, 38, 2839-2850.	14.5	112
36	Role of Threonines in the <i>Arabidopsis thaliana</i> Somatic Embryogenesis Receptor Kinase 1 Activation Loop in Phosphorylation. <i>Journal of Biological Chemistry</i> , 2001, 276, 41263-41269.	3.4	107

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37	Visualization of BRI1 and BAK1(SERK3) Membrane Receptor Heterooligomers during Brassinosteroid Signaling. <i>Plant Physiology</i> , 2013, 162, 1911-1925.	4.8	104
38	Competition between the facultatively chemolithotrophic Thiobacillus A2, an obligately chemolithotrophic Thiobacillus and a heterotrophic spirillum for inorganic and organic substrates. <i>Archives of Microbiology</i> , 1979, 121, 241-249.	2.2	95
39	The BRASSINOSTEROID INSENSITIVE1-LIKE3 Signalosome Complex Regulates Arabidopsis Root Development. <i>Plant Cell</i> , 2013, 25, 3377-3388.	6.6	94
40	The Arabidopsis Leucine-Rich Repeat Receptor Kinase BIR3 Negatively Regulates BAK1 Receptor Complex Formation and Stabilizes BAK1. <i>Plant Cell</i> , 2017, 29, 2285-2303.	6.6	94
41	Expression pattern of the Arabidopsis thaliana AtEP3 / AtchitIV endochitinase gene. <i>Planta</i> , 2001, 212, 556-567.	3.2	93
42	Molecular cytogenetics and DNA sequence analysis of an apomixis-linked BAC in Paspalum simplex reveal a non pericentromere location and partial microcolinearity with rice. <i>Theoretical and Applied Genetics</i> , 2006, 112, 1179-1191.	3.6	90
43	Proteomics-based identification of low-abundance signaling and regulatory protein complexes in native plant tissues. <i>Nature Protocols</i> , 2012, 7, 2144-2158.	12.0	90
44	Cell Plate Restricted Association of DRP1A and PIN Proteins Is Required for Cell Polarity Establishment in Arabidopsis. <i>Current Biology</i> , 2011, 21, 1055-1060.	3.9	89
45	A relationship between seed development, Arabinogalactan-proteins (AGPs) and the AGP mediated promotion of somatic embryogenesis. <i>Physiologia Plantarum</i> , 2002, 114, 637-644.	5.2	83
46	Promotive and inhibitory effects of diverse arabinogalactan proteins on Daucus carota L. somatic embryogenesis. <i>Planta</i> , 1997, 203, 188-195.	3.2	81
47	Carrot arabinogalactan proteins are interlinked with pectins. <i>Physiologia Plantarum</i> , 2006, 128, 18-28.	5.2	78
48	Cell-Specific Expression of the Carrot EP2 Lipid Transfer Protein Gene. <i>Plant Cell</i> , 1991, 3, 907.	6.6	77
49	Fluorescence Fluctuation Analysis of Arabidopsis thaliana Somatic Embryogenesis Receptor-Like Kinase and Brassinosteroid Insensitive 1 Receptor Oligomerization. <i>Biophysical Journal</i> , 2008, 94, 1052-1062.	0.5	77
50	On the Origin of SERKs: Bioinformatics Analysis of the Somatic Embryogenesis Receptor Kinases. <i>Molecular Plant</i> , 2015, 8, 762-782.	8.3	74
51	Lipid Transfer Protein: A Pan-Allergen in Plant-Derived Foods That Is Highly Resistant to Pepsin Digestion. <i>International Archives of Allergy and Immunology</i> , 2001, 124, 67-69.	2.1	73
52	How Accurate and Safe Is the Diagnosis of Hazelnut Allergy by Means of Commercial Skin Prick Test Reagents?. <i>International Archives of Allergy and Immunology</i> , 2003, 132, 132-140.	2.1	72
53	Characterization of chitinases able to rescue somatic embryos of the temperature-sensitive carrot variants. <i>Plant Molecular Biology</i> , 1996, 31, 631-645.	3.9	70
54	Calcium increases the yield of somatic embryos in carrot embryogenic suspension cultures. <i>Plant Cell Reports</i> , 1990, 9, 221-223.	5.6	68

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55	Somatic embryogenesis from Arabidopsis shoot apical meristem mutants. <i>Planta</i> , 2002, 214, 829-836.	3.2	68
56	In vivo imaging of MADS-box transcription factor interactions. <i>Journal of Experimental Botany</i> , 2006, 57, 33-42.	4.8	63
57	The Arabidopsis SERK1 protein interacts with the AAA-ATPase AtCDC48, the 14-3-3 protein GF14 and the PP2C phosphatase KAPP. <i>Planta</i> , 2005, 221, 394-405.	3.2	61
58	A Carrot Somatic Embryo Mutant Is Rescued by Chitinase. <i>Plant Cell</i> , 1992, 4, 425.	6.6	59
59	Cloning and expression of the Escherichia coli recA gene in Bacillus subtilis. <i>Gene</i> , 1983, 25, 301-308.	2.2	58
60	Rhizobium Lipooligosaccharides Rescue a Carrot Somatic Embryo Mutant. <i>Plant Cell</i> , 1993, 5, 615.	6.6	58
61	Identification of <i>in vitro</i> phosphorylation sites in the Arabidopsis thaliana somatic embryogenesis receptor-like kinases. <i>Proteomics</i> , 2009, 9, 368-379.	2.2	57
62	The Arabidopsis Somatic Embryogenesis Receptor Kinase 1 Gene Is Expressed in Developing Ovules and Embryos and Enhances Embryogenic Competence in Culture. <i>Plant Physiology</i> , 2001, 127, 803-816.	4.8	54
63	Characterization of the non-specific lipid transfer protein EP2 from carrot (<i>Daucus carota</i> L.). <i>Molecular and Cellular Biochemistry</i> , 1993, 123, 159-166.	3.1	52
64	Proteomics Analysis of the Zebrafish Skeletal Extracellular Matrix. <i>PLoS ONE</i> , 2014, 9, e90568.	2.5	50
65	Signal molecules involved in plant embryogenesis. <i>Plant Molecular Biology</i> , 1994, 26, 1305-1313.	3.9	49
66	The SERK1 gene is expressed in procambium and immature vascular cells. <i>Journal of Experimental Botany</i> , 2007, 58, 2887-2896.	4.8	48
67	Ectopic expression of LLAG1, an AGAMOUS homologue from lily (<i>Lilium longiflorum</i> Thunb.) causes floral homeotic modifications in Arabidopsis. <i>Journal of Experimental Botany</i> , 2004, 55, 1391-1399.	4.8	47
68	In Vivo Hexamerization and Characterization of the Arabidopsis AAA ATPase CDC48A Complex Using Förster Resonance Energy Transfer-Fluorescence Lifetime Imaging Microscopy and Fluorescence Correlation Spectroscopy. <i>Plant Physiology</i> , 2007, 145, 339-350.	4.8	47
69	Heterogeneity and Cell Type-Specific Localization of a Cell Wall Glycoprotein from Carrot Suspension Cells. <i>Plant Physiology</i> , 1991, 96, 705-712.	4.8	45
70	The Arabidopsis thaliana AAA protein CDC48A interacts in vivo with the somatic embryogenesis receptor-like kinase 1 receptor at the plasma membrane. <i>Journal of Structural Biology</i> , 2006, 156, 62-71.	2.8	44
71	AtLTP1 luciferase expression during carrot somatic embryogenesis. <i>Plant Journal</i> , 1997, 12, 1213-1221.	5.7	38
72	Transient reduction in secreted 32 kD chitinase prevents somatic embryogenesis in the carrot (<i>Daucus</i>) Tj ETQq0 0.0,rgBT /Overlock 10	2.1	37

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73	Proteomics insights into plant signaling and development. <i>Proteomics</i> , 2011, 11, 744-755.	2.2	37
74	The carrot secreted glycoprotein gene EP1 is expressed in the epidermis and has sequence homology to Brassica S-locus glycoproteins. <i>Plant Journal</i> , 1993, 4, 855-862.	5.7	36
75	Expression of the JIM8 cell wall epitope in carrot somatic embryogenesis. <i>Planta</i> , 1996, 200, 167-173.	3.2	36
76	AtSERK1 expression precedes and coincides with early somatic embryogenesis in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2008, 46, 709-714.	5.8	36
77	A Mathematical Model for BRASSINOSTEROID INSENSITIVE1-Mediated Signaling in Root Growth and Hypocotyl Elongation. <i>Plant Physiology</i> , 2012, 160, 523-532.	4.8	35
78	Nodulin gene expression during soybean (<i>Glycine max</i>) nodule development. <i>Plant Molecular Biology</i> , 1987, 8, 395-403.	3.9	34
79	Signalling in plant embryos during the establishment of the polar axis. <i>Seminars in Cell and Developmental Biology</i> , 1999, 10, 157-164.	5.0	34
80	Quantification of the Brassinosteroid Insensitive1 Receptor in <i>Planta</i> . <i>Plant Physiology</i> , 2011, 156, 1691-1700.	4.8	33
81	Visualization of BRI1 and SERK3/BAK1 Nanoclusters in <i>Arabidopsis</i> Roots. <i>PLoS ONE</i> , 2017, 12, e0169905.	2.5	33
82	Plant embryogenesis. <i>Current Biology</i> , 2017, 27, R870-R873.	3.9	32
83	Plasma Membrane Receptor Complexes. <i>Plant Physiology</i> , 2008, 147, 1560-1564.	4.8	31
84	<i>Petunia hybrida</i> homologues of shaggy/zeste-white 3 expressed in female and male reproductive organs. <i>Plant Journal</i> , 1995, 7, 897-911.	5.7	30
85	Pattern Formation in the <i>Arabidopsis</i> Embryo Revealed by Position-Specific Lipid Transfer Protein Gene Expression. <i>Plant Cell</i> , 1996, 8, 783.	6.6	28
86	Substrate Utilization by Suspension Cultures and Somatic Embryos of <i>Daucus carota</i> L. Measured by ¹³ C NMR. <i>Plant Physiology</i> , 1988, 88, 1332-1337.	4.8	25
87	The secretory nature of the lesion of carrot cell variant ts11, rescuable by endochitinase. <i>Planta</i> , 1997, 203, 381-389.	3.2	21
88	Membrane Trafficking: Intracellular Highways and Country Roads. <i>Plant Physiology</i> , 2008, 147, 1451-1453.	4.8	21
89	Expression of the <i>Daucus carota</i> somatic embryogenesis receptor kinase (DcSERK) protein in insect cells. <i>Biochimie</i> , 2001, 83, 415-421.	2.6	19
90	Plant Embryogenesis. <i>Critical Reviews in Plant Sciences</i> , 1997, 16, 535-576.	5.7	18

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91	Molecular cloning of pea mRNAs encoding a shoot-specific polypeptide and light-induced polypeptides. <i>Plant Molecular Biology</i> , 1983, 2, 295-303.	3.9	17
92	A shoot-specific mRNA from pea: nucleotide sequence and regulation as compared to light-induced mRNAs. <i>Plant Molecular Biology</i> , 1985, 4, 95-102.	3.9	17
93	Different arabinogalactan proteins are present in carrot (<i>Daucus carota</i>) cell culture medium and in seeds. <i>Physiologia Plantarum</i> , 2004, 122, 181-189.	5.2	17
94	A Proteomics Approach to Membrane Trafficking. <i>Plant Physiology</i> , 2008, 147, 1584-1589.	4.8	17
95	Polarized outgrowth of hyphae by constant electrical fields during reversion of <i>Schizophyllum commune</i> protoplasts. <i>Experimental Mycology</i> , 1982, 6, 95-98.	1.6	16
96	Nonselective Chemical Inhibition of Sec7 Domain-Containing ARF GTPase Exchange Factors. <i>Plant Cell</i> , 2018, 30, 2573-2593.	6.6	16
97	Advances in Understanding Brassinosteroid Signaling. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , 2006, 2006, pe36-pe36.	3.9	15
98	14-3-3 Proteins in Plant Brassinosteroid Signaling. <i>Developmental Cell</i> , 2007, 13, 162-164.	7.0	15
99	Sequence diversity of polysomal mRNAs in roots and shoots of etiolated and greened pea seedlings. <i>Planta</i> , 1983, 158, 42-50.	3.2	14
100	Purification, immunological characterization and cDNA cloning of a 47 kDa glycoprotein secreted by carrot suspension cells. <i>Plant Molecular Biology</i> , 1995, 27, 901-910.	3.9	14
101	Making embryos in plants. <i>Trends in Plant Science</i> , 1998, 3, 451-452.	8.8	14
102	A Comparison of In Vitro and In Vivo Asexual Embryogenesis. <i>Methods in Molecular Biology</i> , 2016, 1359, 3-23.	0.9	14
103	A Mathematical Model for the Coreceptors SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE1 and SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE3 in BRASSINOSTEROID INSENSITIVE1-Mediated Signaling. <i>Plant Physiology</i> , 2013, 163, 1472-1481.	4.8	13
104	Changes in the tissue-specific prevalence of translatable mRNAs in transgenic tobacco shoots containing the T-DNA cytokinin gene. <i>Plant Molecular Biology</i> , 1988, 11, 625-631.	3.9	11
105	The <i>Arabidopsis thaliana</i> SERK1 Kinase Domain Spontaneously Refolds to an Active State In Vitro. <i>PLoS ONE</i> , 2012, 7, e50907.	2.5	9
106	Parental Contribution to Plant Embryos. <i>Plant Cell</i> , 2000, 12, 461-463.	6.6	8
107	Suspensor-derived somatic embryogenesis in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2020, 147, .	2.5	8
108	Fluorescence Correlation Spectroscopy and Fluorescence Recovery After Photobleaching to Study Receptor Kinase Mobility In Planta. <i>Methods in Molecular Biology</i> , 2011, 779, 225-242.	0.9	6

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109	Computational modelling of the <scp>BRI1</scp> receptor system. Plant, Cell and Environment, 2013, 36, 1728-1737.	5.7	6
110	Use of the SSLP-based method for detection of rare apomictic events in a sexual AtSERK1 transgenic Arabidopsis population. Sexual Plant Reproduction, 2006, 19, 73-82.	2.2	3
111	Plant receptor complexes. Science Signaling, 2015, 8, fs15.	3.6	2
112	Transcriptional Analysis of serk1 and serk3 Coreceptor Mutants. Plant Physiology, 2016, 172, 2516-2529.	4.8	2
113	Identification of Brassinosteroid Signaling Complexes by Coimmunoprecipitation and Mass Spectrometry. Methods in Molecular Biology, 2017, 1564, 145-154.	0.9	2
114	Symposia on Plant (Protein) Phosphorylation. Frontiers in Plant Science, 2012, 3, 201.	3.6	1
115	Isolation of genes specifically expressed in <i>Petunia hybrida</i> ovules and isolated embryo sacs. Acta Botanica Gallica, 1993, 140, 717-717.	0.9	0
116	Parental Contribution to Plant Embryos. Plant Cell, 2000, 12, 461.	6.6	0
117	Precision positioning with peptides. Nature, 2015, 522, 424-425.	27.8	0