

# Silke Robatzek

## List of Publications by Year in descending order

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65  
papers

11,020  
citations

53794

45  
h-index

106344

65  
g-index

72  
all docs

72  
docs citations

72  
times ranked

9190  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Xylella fastidiosa</i> ™s relationships: the bacterium, the host plants, and the plant microbiome. <i>New Phytologist</i> , 2022, 234, 1598-1605.	7.3	17
2	Host-interactor screens of <i>Phytophthora infestans</i> RXLR proteins reveal vesicle trafficking as a major effector-targeted process. <i>Plant Cell</i> , 2021, 33, 1447-1471.	6.6	46
3	The <i>Arabidopsis</i> immune receptor EFR increases resistance to the bacterial pathogens <i>Xanthomonas</i> and <i>Xylella</i> in transgenic sweet orange. <i>Plant Biotechnology Journal</i> , 2021, 19, 1294-1296.	8.3	26
4	Functions of Extracellular Vesicles in Immunity and Virulence. <i>Plant Physiology</i> , 2019, 179, 1236-1247.	4.8	68
5	Kinase activity of SOBIR1 and BAK1 is required for immune signalling. <i>Molecular Plant Pathology</i> , 2019, 20, 410-422.	4.2	71
6	The use of quantitative imaging to investigate regulators of membrane trafficking in <i>Arabidopsis</i> stomatal closure. <i>Traffic</i> , 2019, 20, 168-180.	2.7	21
7	Anion channel SLAH3 is a regulatory target of chitin receptor-associated kinase PBL27 in microbial stomatal closure. <i>ELife</i> , 2019, 8, .	6.0	48
8	<i>Arabidopsis</i> glycosylphosphatidylinositol-anchored protein LLG1 associates with and modulates FLS2 to regulate innate immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5749-5754.	7.1	85
9	Detection and Analyses of Endocytosis of Plant Receptor Kinases. <i>Methods in Molecular Biology</i> , 2017, 1621, 177-189.	0.9	2
10	A computational approach for inferring the cell wall properties that govern guard cell dynamics. <i>Plant Journal</i> , 2017, 92, 5-18.	5.7	62
11	An automated quantitative image analysis tool for the identification of microtubule patterns in plants. <i>Traffic</i> , 2017, 18, 683-693.	2.7	18
12	Editorial overview: Biotic interactions: Inferring global implications for the molecular interface between plants and their biotic interactions across scales. <i>Current Opinion in Plant Biology</i> , 2017, 38, v-vii.	7.1	0
13	Plant immune and growth receptors share common signalling components but localise to distinct plasma membrane nanodomains. <i>ELife</i> , 2017, 6, .	6.0	206
14	Avr4 promotes Cf4 receptor-like protein association with the BAK1/SERK3 receptor-like kinase to initiate receptor endocytosis and plant immunity. <i>New Phytologist</i> , 2016, 210, 627-642.	7.3	146
15	Clathrin-dependent endocytosis is required for immunity mediated by pattern recognition receptor kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11034-11039.	7.1	188
16	NB-LRR signaling induces translational repression of viral transcripts and the formation of RNA processing bodies through mechanisms differing from those activated by UV stress and RNAi. <i>Journal of Experimental Botany</i> , 2016, 67, 2353-2366.	4.8	22
17	Large-Scale Phenomics Identifies Primary and Fine-Tuning Roles for CRKs in Responses Related to Oxidative Stress. <i>PLoS Genetics</i> , 2015, 11, e1005373.	3.5	167
18	A Moving View: Subcellular Trafficking Processes in Pattern Recognition Receptor-Triggered Plant Immunity. <i>Annual Review of Phytopathology</i> , 2015, 53, 379-402.	7.8	97

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19	Identification of Regulatory and Cargo Proteins of Endosomal and Secretory Pathways in <i>Arabidopsis thaliana</i> by Proteomic Dissection*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1796-1813.	3.8	101
20	Phosphorylation of the Plant Immune Regulator RPM1-INTERACTING PROTEIN4 Enhances Plant Plasma Membrane H <sup>+</sup> -ATPase Activity and Inhibits Flagellin-Triggered Immune Responses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 2042-2056.	6.6	91
21	Should I stay or should I go? Traffic control for plant pattern recognition receptors. <i>Current Opinion in Plant Biology</i> , 2015, 28, 23-29.	7.1	19
22	The Plasmodesmal Protein PDL1 Localises to Haustoria-Associated Membranes during Downy Mildew Infection and Regulates Callose Deposition. <i>PLoS Pathogens</i> , 2014, 10, e1004496.	4.7	130
23	Gate control: guard cell regulation by microbial stress. <i>New Phytologist</i> , 2014, 203, 1049-1063.	7.3	77
24	Expression patterns of FLAGELLIN SENSING 2 map to bacterial entry sites in plant shoots and roots. <i>Journal of Experimental Botany</i> , 2014, 65, 6487-6498.	4.8	96
25	Knowing your friends and foes – plant receptor-like kinases as initiators of symbiosis or defence. <i>New Phytologist</i> , 2014, 204, 791-802.	7.3	130
26	Chaperones of the endoplasmic reticulum are required for Ve1 –mediated resistance to <i>V. dactyloides</i> . <i>Molecular Plant Pathology</i> , 2014, 15, 109-117.	4.2	33
27	The bacterial effector <i>HopM1</i> suppresses PAMP-triggered oxidative burst and stomatal immunity. <i>New Phytologist</i> , 2014, 202, 259-269.	7.3	101
28	High-Throughput Imaging of Plant Immune Responses. <i>Methods in Molecular Biology</i> , 2014, 1127, 67-80.	0.9	5
29	Endocytosis: At the Crossroads of Pattern Recognition Immune Receptors and Pathogen Effectors. <i>Plant Cell Monographs</i> , 2014, , 273-297.	0.4	11
30	Illuminating traffic control for cell –division planes. <i>ELife</i> , 2014, 3, e02747.	6.0	3
31	The family of Peps and their precursors in <i>Arabidopsis</i> : differential expression and localization but similar induction of pattern-triggered immune responses. <i>Journal of Experimental Botany</i> , 2013, 64, 5309-5321.	4.8	140
32	Salicylic acid interferes with clathrin-mediated endocytic protein trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7946-7951.	7.1	101
33	Receptor-like kinase SOBIR1/EVR interacts with receptor-like proteins in plant immunity against fungal infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10010-10015.	7.1	272
34	Mapping FLS2 function to structure: LRRs, kinase and its working bits. <i>Protoplasma</i> , 2013, 250, 671-681.	2.1	39
35	ESCRT-I Mediates FLS2 Endosomal Sorting and Plant Immunity. <i>PLoS Genetics</i> , 2013, 9, e1004035.	3.5	126
36	LYM2-dependent chitin perception limits molecular flux via plasmodesmata. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9166-9170.	7.1	248

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37	A Developmental Framework for Complex Plasmodesmata Formation Revealed by Large-Scale Imaging of the <i>Arabidopsis</i> Leaf Epidermis. <i>Plant Cell</i> , 2013, 25, 57-70.	6.6	71
38	The Shoot Apical Meristem Regulatory Peptide CLV3 Does Not Activate Innate Immunity. <i>Plant Cell</i> , 2012, 24, 3186-3192.	6.6	35
39	Plasma Membrane Calcium ATPases Are Important Components of Receptor-Mediated Signaling in Plant Immune Responses and Development. <i>Plant Physiology</i> , 2012, 159, 798-809.	4.8	112
40	Endoplasmic Reticulum-Quality Control Chaperones Facilitate the Biogenesis of Cf Receptor-Like Proteins Involved in Pathogen Resistance of Tomato. <i>Plant Physiology</i> , 2012, 159, 1819-1833.	4.8	63
41	Flagellin Perception Varies Quantitatively in <i>Arabidopsis thaliana</i> and Its Relatives. <i>Molecular Biology and Evolution</i> , 2012, 29, 1655-1667.	8.9	77
42	Spatio-Temporal Cellular Dynamics of the <i>Arabidopsis</i> Flagellin Receptor Reveal Activation Status-Dependent Endosomal Sorting. <i>Plant Cell</i> , 2012, 24, 4205-4219.	6.6	226
43	The INs and OUTs of pattern recognition receptors at the cell surface. <i>Current Opinion in Plant Biology</i> , 2012, 15, 367-374.	7.1	101
44	Plants and pathogens: putting infection strategies and defence mechanisms on the map. <i>Current Opinion in Plant Biology</i> , 2012, 15, 699-707.	7.1	75
45	CalloseMeasurer: a novel software solution to measure callose deposition and recognise spreading callose patterns. <i>Plant Methods</i> , 2012, 8, 49.	4.3	21
46	Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. <i>Cellular Microbiology</i> , 2012, 14, 682-697.	2.1	111
47	Lazarus1, a DUF300 Protein, Contributes to Programmed Cell Death Associated with <i>Arabidopsis</i> <i>acd11</i> and the Hypersensitive Response. <i>PLoS ONE</i> , 2010, 5, e12586.	2.5	25
48	High-Throughput Confocal Imaging of Intact Live Tissue Enables Quantification of Membrane Trafficking in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 154, 1096-1104.	4.8	34
49	Pathogen-Associated Molecular Pattern-Triggered Immunity: Veni, Vidi. <i>Plant Physiology</i> , 2010, 154, 551-554.	4.8	206
50	Pattern Recognition Receptors Require N-Glycosylation to Mediate Plant Immunity. <i>Journal of Biological Chemistry</i> , 2010, 285, 4629-4636.	3.4	164
51	Ethylene Signaling Regulates Accumulation of the FLS2 Receptor and Is Required for the Oxidative Burst Contributing to Plant Immunity. <i>Plant Physiology</i> , 2010, 154, 391-400.	4.8	306
52	PAMP (Pathogen-associated Molecular Pattern)-induced Changes in Plasma Membrane Compartmentalization Reveal Novel Components of Plant Immunity. <i>Journal of Biological Chemistry</i> , 2010, 285, 39140-39149.	3.4	268
53	Uncoupling of sustained MAMP receptor signaling from early outputs in an <i>Arabidopsis</i> endoplasmic reticulum glucosidase II allele. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22522-22527.	7.1	119
54	Receptor quality control in the endoplasmic reticulum for plant innate immunity. <i>EMBO Journal</i> , 2009, 28, 3439-3449.	7.8	235

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55	How microbes utilize host ubiquitination. <i>Cellular Microbiology</i> , 2009, 11, 1425-1434.	2.1	51
56	Breaking the Barriers: Microbial Effector Molecules Subvert Plant Immunity. <i>Annual Review of Phytopathology</i> , 2008, 46, 189-215.	7.8	308
57	Plant Pattern-Recognition Receptor FLS2 Is Directed for Degradation by the Bacterial Ubiquitin Ligase AvrPtoB. <i>Current Biology</i> , 2008, 18, 1824-1832.	3.9	400
58	Chemical Interference of Pathogen-associated Molecular Pattern-triggered Immune Responses in Arabidopsis Reveals a Potential Role for Fatty-acid Synthase Type II Complex-derived Lipid Signals. <i>Journal of Biological Chemistry</i> , 2007, 282, 6803-6811.	3.4	68
59	A flagellin-induced complex of the receptor FLS2 and BAK1 initiates plant defence. <i>Nature</i> , 2007, 448, 497-500.	27.8	1,619
60	Molecular identification and characterization of the tomato flagellin receptor LeFLS2, an orthologue of Arabidopsis FLS2 exhibiting characteristically different perception specificities. <i>Plant Molecular Biology</i> , 2007, 64, 539-547.	3.9	174
61	Ligand-induced endocytosis of the pattern recognition receptor FLS2 in Arabidopsis. <i>Genes and Development</i> , 2006, 20, 537-542.	5.9	649
62	<i>Pseudomonas syringae</i> effector AvrPtoB suppresses basal defence in Arabidopsis. <i>Plant Journal</i> , 2006, 47, 368-382.	5.7	153
63	Induced Endocytosis of the Receptor Kinase FLS2. <i>Plant Signaling and Behavior</i> , 2006, 1, 293-295.	2.4	35
64	The N Terminus of Bacterial Elongation Factor Tu Elicits Innate Immunity in Arabidopsis Plants. <i>Plant Cell</i> , 2004, 16, 3496-3507.	6.6	780
65	Bacterial disease resistance in Arabidopsis through flagellin perception. <i>Nature</i> , 2004, 428, 764-767.	27.8	1,487