

Dolf Weijers

List of Publications by Year in descending order

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Version: 2024-02-01

137
papers

17,022
citations

22548

61
h-index

18944

123
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166
all docs

166
docs citations

166
times ranked

12981
citing authors

#	ARTICLE	IF	CITATIONS
1	Pole position: How plant cells polarize along the axes. <i>Plant Cell</i> , 2022, 34, 174-192.	3.1	32
2	A rich and bountiful harvest: Key discoveries in plant cell biology. <i>Plant Cell</i> , 2022, 34, 53-71.	3.1	7
3	Probing DNA-Transcription Factor Interactions Using Single-Molecule Fluorescence Detection in Nanofluidic Devices. <i>Advanced Biology</i> , 2022, 6, e2100953.	1.4	1
4	Plant transcription factors "being in the right place with the right company". <i>Current Opinion in Plant Biology</i> , 2022, 65, 102136.	3.5	63
5	Back to the roots: A focus on plant cell biology. <i>Plant Cell</i> , 2022, 34, 1-3.	3.1	1
6	Highly Specific Protein Identification by Immunoprecipitation-Mass Spectrometry Using Antifouling Microbeads. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23102-23116.	4.0	4
7	Alternative Splicing Generates a MONOPTEROS Isoform Required for Ovule Development. <i>Current Biology</i> , 2021, 31, 892-899.e3.	1.8	22
8	The <i>Arabidopsis</i> embryo as a quantifiable model for studying pattern formation. <i>Quantitative Plant Biology</i> , 2021, 2, .	0.8	5
9	Conserved, divergent and heterochronic gene expression during <i>Brachypodium</i> and <i>Arabidopsis</i> embryo development. <i>Plant Reproduction</i> , 2021, 34, 207-224.	1.3	22
10	Auxin Response by the Numbers. <i>Trends in Plant Science</i> , 2021, 26, 442-451.	4.3	5
11	Flowering plant embryos: How did we end up here?. <i>Plant Reproduction</i> , 2021, 34, 365-371.	1.3	5
12	Two-Component Nanoparticle Vaccine Displaying Glycosylated Spike S1 Domain Induces Neutralizing Antibody Response against SARS-CoV-2 Variants. <i>MBio</i> , 2021, 12, e0181321.	1.8	28
13	Auxin-dependent control of cytoskeleton and cell shape regulates division orientation in the <i>Arabidopsis</i> embryo. <i>Current Biology</i> , 2021, 31, 4946-4955.e4.	1.8	24
14	Cell surface and intracellular auxin signalling for H ⁺ fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277.	13.7	128
15	Plant cell polarity as the nexus of tissue mechanics and morphogenesis. <i>Nature Plants</i> , 2021, 7, 1548-1559.	4.7	21
16	Rice microtubule-associated protein IQ67-DOMAIN14 regulates grain shape by modulating microtubule cytoskeleton dynamics. <i>Plant Biotechnology Journal</i> , 2020, 18, 1141-1152.	4.1	43
17	Evolution of vascular plants through redeployment of ancient developmental regulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 733-740.	3.3	21
18	A PXY-Mediated Transcriptional Network Integrates Signaling Mechanisms to Control Vascular Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 319-335.	3.1	103

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19	Complete microviscosity maps of living plant cells and tissues with a toolbox of targeting mechanoprobes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18110-18118.	3.3	46
20	Architecture of DNA elements mediating ARF transcription factor binding and auxin-responsive gene expression in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24557-24566.	3.3	53
21	Design principles of a minimal auxin response system. <i>Nature Plants</i> , 2020, 6, 473-482.	4.7	71
22	Suspensor-derived somatic embryogenesis in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2020, 147, .	1.2	8
23	Specification and regulation of vascular tissue identity in the <i>Arabidopsis</i> embryo. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	24
24	Anthoceros genomes illuminate the origin of land plants and the unique biology of hornworts. <i>Nature Plants</i> , 2020, 6, 259-272.	4.7	225
25	Deep Evolutionary History of the Phox and Bem1 (PB1) Domain Across Eukaryotes. <i>Scientific Reports</i> , 2020, 10, 3797.	1.6	13
26	Assorted Pastries at the South Pole. <i>Developmental Cell</i> , 2020, 52, 137-138.	3.1	1
27	DIX Domain Polymerization Drives Assembly of Plant Cell Polarity Complexes. <i>Cell</i> , 2020, 180, 427-439.e12.	13.5	54
28	Evolution of Plant Hormone Response Pathways. <i>Annual Review of Plant Biology</i> , 2020, 71, 327-353.	8.6	169
29	High-resolution and Deep Phylogenetic Reconstruction of Ancestral States from Large Transcriptomic Data Sets. <i>Bio-protocol</i> , 2020, 10, e3566.	0.2	4
30	<i>Idiogram</i> : drawing SVG graphics to visualize and map genome-wide data on the idiograms. <i>PeerJ Computer Science</i> , 2020, 6, e251.	2.7	265
31	Cell Type-Specific Transcriptomics in the Plant Embryo Using an Adapted INTACT Protocol. <i>Methods in Molecular Biology</i> , 2020, 2122, 141-150.	0.4	2
32	Analyzing Subcellular Reorganization During Early <i>Arabidopsis</i> Embryogenesis Using Fluorescent Markers. <i>Methods in Molecular Biology</i> , 2020, 2122, 49-61.	0.4	1
33	The Transcriptional Landscape of Polyploid Wheats and Their Diploid Ancestors during Embryogenesis and Grain Development. <i>Plant Cell</i> , 2019, 31, 2888-2911.	3.1	57
34	Evolution, Initiation, and Diversity in Early Plant Embryogenesis. <i>Developmental Cell</i> , 2019, 50, 533-543.	3.1	34
35	A SOSEKI-based coordinate system interprets global polarity cues in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2019, 5, 160-166.	4.7	71
36	A Robust Auxin Response Network Controls Embryo and Suspensor Development through a Basic Helix Loop Helix Transcriptional Module. <i>Plant Cell</i> , 2019, 31, 52-67.	3.1	37

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37	Adapting INTACT to analyse cell-type-specific transcriptomes and nucleocytoplasmic mRNA dynamics in the Arabidopsis embryo. <i>Plant Reproduction</i> , 2019, 32, 113-121.	1.3	16
38	Regulation of intercellular TARGET OF MONOPTEROS 7 protein transport in the Arabidopsis root. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	16
39	A toolkit for studying cellular reorganization during early embryogenesis in Arabidopsis thaliana. <i>Plant Journal</i> , 2018, 93, 963-976.	2.8	26
40	Auxin: small molecule, big impact. <i>Journal of Experimental Botany</i> , 2018, 69, 133-136.	2.4	77
41	Diversity of cis-regulatory elements associated with auxin response in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2018, 69, 329-339.	2.4	45
42	Auxin Response Factors: output control in auxin biology. <i>Journal of Experimental Botany</i> , 2018, 69, 179-188.	2.4	158
43	Evolution of nuclear auxin signaling: lessons from genetic studies with basal land plants. <i>Journal of Experimental Botany</i> , 2018, 69, 291-301.	2.4	53
44	A Plausible Microtubule-Based Mechanism for Cell Division Orientation in Plant Embryogenesis. <i>Current Biology</i> , 2018, 28, 3031-3043.e2.	1.8	57
45	Origin and evolution of the nuclear auxin response system. <i>ELife</i> , 2018, 7, .	2.8	195
46	Cell-Type-Specific Promoter Identification Using Enhancer Trap Lines. <i>Methods in Molecular Biology</i> , 2018, 1830, 127-139.	0.4	0
47	RIMA-Dependent Nuclear Accumulation of IYO Triggers Auxin-Irreversible Cell Differentiation in Arabidopsis. <i>Plant Cell</i> , 2017, 29, 575-588.	3.1	22
48	Auxin response cell-autonomously controls ground tissue initiation in the early Arabidopsis embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2533-E2539.	3.3	74
49	The developmental and environmental regulation of gravitropic setpoint angle in Arabidopsis and bean. <i>Scientific Reports</i> , 2017, 7, 42664.	1.6	44
50	Boosting LPMO-driven lignocellulose degradation by polyphenol oxidase-activated lignin building blocks. <i>Biotechnology for Biofuels</i> , 2017, 10, 121.	6.2	86
51	Framework for gradual progression of cell ontogeny in the Arabidopsis root meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8922-E8929.	3.3	46
52	Predicting gene regulatory networks by combining spatial and temporal gene expression data in Arabidopsis root stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7632-E7640.	3.3	82
53	Plant embryogenesis. <i>Current Biology</i> , 2017, 27, R870-R873.	1.8	32
54	Multiple PPR protein interactions are involved in the RNA editing system in Arabidopsis mitochondria and plastids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8883-8888.	3.3	91

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55	Transcriptome dynamics revealed by a gene expression atlas of the early Arabidopsis embryo. <i>Nature Plants</i> , 2017, 3, 894-904.	4.7	77
56	Theoretical approaches to understanding root vascular patterning: a consensus between recent models. <i>Journal of Experimental Botany</i> , 2017, 68, 5-16.	2.4	35
57	FRET-FLIM for Visualizing and Quantifying Protein Interactions in Live Plant Cells. <i>Methods in Molecular Biology</i> , 2017, 1497, 135-146.	0.4	12
58	In Vivo Identification of Plant Protein Complexes Using IP-MS/MS. <i>Methods in Molecular Biology</i> , 2017, 1497, 147-158.	0.4	62
59	The anaphase-promoting complex initiates zygote division in Arabidopsis through degradation of cyclin B1. <i>Plant Journal</i> , 2016, 86, 161-174.	2.8	46
60	Auxin responsiveness of the <i>MONOPTEROS</i> \leftrightarrow <i>BODENLOS</i> module in primary root initiation critically depends on the nuclear import kinetics of the Aux/IAA inhibitor <i>BODENLOS</i> . <i>Plant Journal</i> , 2016, 85, 269-277.	2.8	22
61	Phyllotaxis: A Matthew Effect in Auxin Action. <i>Current Biology</i> , 2016, 26, R1233-R1235.	1.8	1
62	A Female Identity Switch Helps Keep Only One Egg in the Basket. <i>Developmental Cell</i> , 2016, 37, 5-6.	3.1	5
63	Molecular characterization of Arabidopsis GAL4/UAS enhancer trap lines identifies novel cell type-specific promoters. <i>Plant Physiology</i> , 2016, 171, pp.00213.2016.	2.3	23
64	Tissue and Organ Initiation in the Plant Embryo: A First Time for Everything. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 47-75.	4.0	73
65	Quiescent center initiation in the <i>Arabidopsis</i> lateral root primordia is dependent on the <i>SCARECROW</i> transcription factor. <i>Development (Cambridge)</i> , 2016, 143, 3363-71.	1.2	61
66	Q&A: Auxin: the plant molecule that influences almost anything. <i>BMC Biology</i> , 2016, 14, 67.	1.7	101
67	A noncanonical auxin-sensing mechanism is required for organ morphogenesis in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2016, 30, 2286-2296.	2.7	122
68	Editorial overview: Growth and development: Signals and communication in plant pluripotency, differentiation and growth. <i>Current Opinion in Plant Biology</i> , 2016, 29, v-ix.	3.5	0
69	Plant Organogenesis: Rules of Order. <i>Current Biology</i> , 2016, 26, R157-R159.	1.8	7
70	Transcriptional Responses to the Auxin Hormone. <i>Annual Review of Plant Biology</i> , 2016, 67, 539-574.	8.6	396
71	Plant vascular development: from early specification to differentiation. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 30-40.	16.1	195
72	Quiescent center initiation in the Arabidopsis lateral root primordia is dependent on the SCARECROW transcription factor. <i>Journal of Cell Science</i> , 2016, 129, e1.2-e1.2.	1.2	1

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73	Centering the Organizing Center in the Arabidopsis thaliana Shoot Apical Meristem by a Combination of Cytokinin Signaling and Self-Organization. PLoS ONE, 2016, 11, e0147830.	1.1	28
74	Auxin: Harnessing a loose cannon. Nature Plants, 2015, 1, 15024.	4.7	1
75	Organizer-Derived WOX5 Signal Maintains Root Columella Stem Cells through Chromatin-Mediated Repression of CDF4 Expression. Developmental Cell, 2015, 33, 576-588.	3.1	311
76	Reporters for sensitive and quantitative measurement of auxin response. Nature Methods, 2015, 12, 207-210.	9.0	382
77	Plant embryogenesis requires AUX/LAX-mediated auxin influx. Development (Cambridge), 2015, 142, 702-11.	1.2	92
78	Building a plant: cell fate specification in the early Arabidopsis embryo. Development (Cambridge), 2015, 142, 420-430.	1.2	179
79	The role of auxin signaling in early embryo pattern formation. Current Opinion in Plant Biology, 2015, 28, 99-105.	3.5	71
80	Cytokinin response factors regulate PIN-FORMED auxin transporters. Nature Communications, 2015, 6, 8717.	5.8	108
81	A set of domain-specific markers in the Arabidopsis embryo. Plant Reproduction, 2015, 28, 153-160.	1.3	16
82	A bHLH-Based Feedback Loop Restricts Vascular Cell Proliferation in Plants. Developmental Cell, 2015, 35, 432-443.	3.1	96
83	Control of oriented cell division in the Arabidopsis embryo. Current Opinion in Plant Biology, 2015, 23, 25-30.	3.5	12
84	Ligation-Independent Cloning for Plant Research. Methods in Molecular Biology, 2015, 1284, 421-431.	0.4	14
85	Genetic control of identity and growth in the early Arabidopsis embryo. Biochemical Society Transactions, 2014, 42, 346-351.	1.6	4
86	Omics and modelling approaches for understanding regulation of asymmetric cell divisions in Arabidopsis and other angiosperm plants. Annals of Botany, 2014, 113, 1083-1105.	1.4	38
87	Prenatal plumbing—vascular tissue formation in the plant embryo. Physiologia Plantarum, 2014, 151, 126-133.	2.6	22
88	Structural Basis for DNA Binding Specificity by the Auxin-Dependent ARF Transcription Factors. Cell, 2014, 156, 577-589.	13.5	348
89	Integration of growth and patterning during vascular tissue formation in Arabidopsis. Science, 2014, 345, 1255-1261.	6.0	286
90	A roadmap to embryo identity in plants. Trends in Plant Science, 2014, 19, 709-716.	4.3	68

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91	Genetic Control of Plant Development by Overriding a Geometric Division Rule. <i>Developmental Cell</i> , 2014, 29, 75-87.	3.1	203
92	Note from Editor-in-Chief. <i>Plant Reproduction</i> , 2013, 26, 63-63.	1.3	1
93	Message from the new Editor-in-Chief. <i>Plant Reproduction</i> , 2013, 26, 1-1.	1.3	1
94	An integrative model of the control of ovule primordia formation. <i>Plant Journal</i> , 2013, 76, 446-455.	2.8	105
95	Tightly controlled WRKY23 expression mediates Arabidopsis embryo development. <i>EMBO Reports</i> , 2013, 14, 1136-1142.	2.0	61
96	Local Auxin Sources Orient the Apical-Basal Axis in Arabidopsis Embryos. <i>Current Biology</i> , 2013, 23, 2506-2512.	1.8	182
97	A bHLH Complex Controls Embryonic Vascular Tissue Establishment and Indeterminate Growth in Arabidopsis. <i>Developmental Cell</i> , 2013, 24, 426-437.	3.1	269
98	Imaging of Phenotypes, Gene Expression, and Protein Localization During Embryonic Root Formation in Arabidopsis. <i>Methods in Molecular Biology</i> , 2013, 959, 137-148.	0.4	20
99	Transcriptomics approaches in the early Arabidopsis embryo. <i>Trends in Plant Science</i> , 2013, 18, 514-521.	4.3	42
100	The Arabidopsis embryo as a miniature morphogenesis model. <i>New Phytologist</i> , 2013, 199, 14-25.	3.5	76
101	Transcriptional repression of BODENLOS by HD-ZIP transcription factor HB5 in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2013, 64, 3009-3019.	2.4	35
102	Auxin Regulation of Embryonic Root Formation. <i>Plant and Cell Physiology</i> , 2013, 54, 325-332.	1.5	16
103	Control of embryonic meristem initiation in Arabidopsis by PHD-finger protein complexes. <i>Development (Cambridge)</i> , 2012, 139, 1391-1398.	1.2	34
104	Different Auxin Response Machineries Control Distinct Cell Fates in the Early Plant Embryo. <i>Developmental Cell</i> , 2012, 22, 211-222.	3.1	176
105	A cellular expression map of the Arabidopsis AUXIN RESPONSE FACTOR gene family. <i>Plant Journal</i> , 2011, 68, 597-606.	2.8	192
106	A Mutually Inhibitory Interaction between Auxin and Cytokinin Specifies Vascular Pattern in Roots. <i>Current Biology</i> , 2011, 21, 917-926.	1.8	359
107	A Versatile Set of Ligation-Independent Cloning Vectors for Functional Studies in Plants. <i>Plant Physiology</i> , 2011, 156, 1292-1299.	2.3	112
108	The AP-3 adaptor complex is required for vacuolar function in Arabidopsis. <i>Cell Research</i> , 2011, 21, 1711-1722.	5.7	114

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109	<i>POPCORN</i> Functions in the Auxin Pathway to Regulate Embryonic Body Plan and Meristem Organization in <i>Arabidopsis</i>. <i>Plant Cell</i> , 2011, 23, 4348-4367.	3.1	21
110	A Novel Aux/IAA28 Signaling Cascade Activates GATA23-Dependent Specification of Lateral Root Founder Cell Identity. <i>Current Biology</i> , 2010, 20, 1697-1706.	1.8	431
111	MONOPTEROS controls embryonic root initiation by regulating a mobile transcription factor. <i>Nature</i> , 2010, 464, 913-916.	13.7	532
112	miR390, <i>Arabidopsis TAS3</i> tasiRNAs, and Their <i>AUXIN RESPONSE FACTOR</i> Targets Define an Autoregulatory Network Quantitatively Regulating Lateral Root Growth. <i>Plant Cell</i> , 2010, 22, 1104-1117.	3.1	512
113	Bimodular auxin response controls organogenesis in <i>Arabidopsis</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2705-2710.	3.3	271
114	Green Beginnings – Pattern Formation in the Early Plant Embryo. <i>Current Topics in Developmental Biology</i> , 2010, 91, 1-27.	1.0	46
115	Cyclophilin 40 is required for microRNA activity in <i>Arabidopsis</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5424-5429.	3.3	156
116	Auxin Control of Embryo Patterning. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a001545-a001545.	2.3	228
117	<i>DORNROÏSCHEN</i> is a direct target of the auxin response factor MONOPTEROS in the <i>Arabidopsis</i> embryo. <i>Development (Cambridge)</i> , 2009, 136, 1643-1651.	1.2	145
118	Auxin enters the matrix – assembly of response machineries for specific outputs. <i>Current Opinion in Plant Biology</i> , 2009, 12, 520-526.	3.5	64
119	SnapShot: Auxin Signaling and Transport. <i>Cell</i> , 2009, 136, 1172-1172.e1.	13.5	44
120	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. <i>Plant Cell</i> , 2008, 19, 3889-3900.	3.1	498
121	Antagonistic Regulation of PIN Phosphorylation by PP2A and PINOID Directs Auxin Flux. <i>Cell</i> , 2007, 130, 1044-1056.	13.5	590
122	<i>AXL</i> and <i>AXR1</i> have redundant functions in RUB conjugation and growth and development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2007, 52, 114-123.	2.8	65
123	Auxin Triggers Transient Local Signaling for Cell Specification in <i>Arabidopsis</i> Embryogenesis. <i>Developmental Cell</i> , 2006, 10, 265-270.	3.1	303
124	Apical – basal polarity: why plant cells don't stand on their heads. <i>Trends in Plant Science</i> , 2006, 11, 12-14.	4.3	37
125	Developmental specificity of auxin response by pairs of ARF and Aux/IAA transcriptional regulators. <i>EMBO Journal</i> , 2005, 24, 1874-1885.	3.5	349
126	Auxin and embryo axis formation: the ends in sight?. <i>Current Opinion in Plant Biology</i> , 2005, 8, 32-37.	3.5	105

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127	Maintenance of Embryonic Auxin Distribution for Apical-Basal Patterning by PIN-FORMED-Dependent Auxin Transport in Arabidopsis. <i>Plant Cell</i> , 2005, 17, 2517-2526.	3.1	135
128	Plant Development Is Regulated by a Family of Auxin Receptor F Box Proteins. <i>Developmental Cell</i> , 2005, 9, 109-119.	3.1	865
129	A PINOID-Dependent Binary Switch in Apical-Basal PIN Polar Targeting Directs Auxin Efflux. <i>Science</i> , 2004, 306, 862-865.	6.0	703
130	Funneling auxin action: specificity in signal transduction. <i>Current Opinion in Plant Biology</i> , 2004, 7, 687-693.	3.5	69
131	Mis-expression of the CLV3/ESR-like gene CLE19 in Arabidopsis leads to a consumption of root meristem. <i>Gene</i> , 2004, 327, 37-49.	1.0	107
132	Efflux-dependent auxin gradients establish the apical-basal axis of Arabidopsis. <i>Nature</i> , 2003, 426, 147-153.	13.7	1,672
133	Diphtheria Toxin-Mediated Cell Ablation Reveals Interregional Communication during Arabidopsis Seed Development. <i>Plant Physiology</i> , 2003, 133, 1882-1892.	2.3	113
134	Early paternal gene activity in Arabidopsis. <i>Nature</i> , 2001, 414, 709-710.	13.7	106
135	The PINOID protein kinase regulates organ development in <i>Arabidopsis</i> by enhancing polar auxin transport. <i>Development (Cambridge)</i> , 2001, 128, 4057-4067.	1.2	408
136	An <i>Arabidopsis</i> Minute-like phenotype caused by a semi-dominant mutation in a RIBOSOMAL PROTEIN S5 gene. <i>Development (Cambridge)</i> , 2001, 128, 4289-4299.	1.2	267
137	Quantitative analysis of 3D cellular geometry and modelling of the Arabidopsis embryo. <i>Journal of Microscopy</i> , 0, , .	0.8	0