

Bonnie Bartel

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Structure of the Arabidopsis PEX4-PEX22 Peroxin Complex—Insights Into Ubiquitination at the Peroxisomal Membrane. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 838923.	3.7	5
2	Plant peroxisome proteostasis—establishing, renovating, and dismantling the peroxisomal proteome. <i>Essays in Biochemistry</i> , 2022, , .	4.7	1
3	An Arabidopsis <i>pre</i> -RNA processing8a (prp8a) missense allele restores splicing of a subset of mis-spliced mRNAs. <i>Plant Physiology</i> , 2022, 189, 2175-2192.	4.8	1
4	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (edition	9.1	1,430
5	Peroxisomes form intraluminal vesicles with roles in fatty acid catabolism and protein compartmentalization in Arabidopsis. <i>Nature Communications</i> , 2020, 11, 6221.	12.8	22
6	A PEX 5 missense allele preferentially disrupts PTS 1 cargo import into Arabidopsis peroxisomes. <i>Plant Direct</i> , 2019, 3, e00128.	1.9	4
7	PEX16 contributions to peroxisome import and metabolism revealed by viable Arabidopsis pex16 mutants. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 853-870.	8.5	5
8	A facile forward-genetic screen for Arabidopsis autophagy mutants reveals twenty-one loss-of-function mutations disrupting six ATG genes. <i>Autophagy</i> , 2019, 15, 941-959.	9.1	42
9	Biology in Bloom: A Primer on the Arabidopsis thaliana Model System. <i>Genetics</i> , 2018, 208, 1337-1349.	2.9	38
10	A pex1 missense mutation improves peroxisome function in a subset of Arabidopsis pex6 mutants without restoring PEX5 recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3163-E3172.	7.1	18
11	Peroxisome Function, Biogenesis, and Dynamics in Plants. <i>Plant Physiology</i> , 2018, 176, 162-177.	4.8	135
12	The PEX1 ATPase Stabilizes PEX6 and Plays Essential Roles in Peroxisome Biology. <i>Plant Physiology</i> , 2017, 174, 2231-2247.	4.8	18
13	Disparate peroxisome-related defects in Arabidopsis pex6 and pex26 mutants link peroxisomal retrotranslocation and oil body utilization. <i>Plant Journal</i> , 2017, 92, 110-128.	5.7	17
14	The Roles of Î²-Oxidation and Cofactor Homeostasis in Peroxisome Distribution and Function in Arabidopsis thaliana. <i>Genetics</i> , 2016, 204, 1089-1115.	2.9	30
15	Genetic Interactions between PEROXIN12 and Other Peroxisome-Associated Ubiquitination Components. <i>Plant Physiology</i> , 2016, 172, 1643-1656.	4.8	19
16	Plant peroxisomes: recent discoveries in functional complexity, organelle homeostasis, and morphological dynamics. <i>Current Opinion in Plant Biology</i> , 2016, 34, 17-26.	7.1	83
17	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
18	Pexophagy and peroxisomal protein turnover in plants. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 999-1005.	4.1	54

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19	The Early-Acting Peroxin PEX19 Is Redundantly Encoded, Farnesylated, and Essential for Viability in <i>Arabidopsis thaliana</i> . PLoS ONE, 2016, 11, e0148335.	2.5	15
20	Elevated growth temperature decreases levels of the PEX5 peroxisome-targeting signal receptor and ameliorates defects of <i>Arabidopsis</i> mutants with an impaired PEX4 ubiquitin-conjugating enzyme. BMC Plant Biology, 2015, 15, 224.	3.6	20
21	Proteaphagy—Selective Autophagy of Inactive Proteasomes. Molecular Cell, 2015, 58, 970-971.	9.7	7
22	Mutation of the <i>Arabidopsis</i> LON2 peroxisomal protease enhances pexophagy. Autophagy, 2014, 10, 518-519.	9.1	22
23	Peroxisomal Ubiquitin-Protein Ligases Peroxin2 and Peroxin10 Have Distinct But Synergistic Roles in Matrix Protein Import and Peroxin5 Retrotranslocation in <i>Arabidopsis</i> . Plant Physiology, 2014, 166, 1329-1344.	4.8	31
24	Protein Transport In and Out of Plant Peroxisomes. , 2014, , 325-345.		8
25	A viable <i>Arabidopsis</i> pex13 missense allele confers severe peroxisomal defects and decreases PEX5 association with peroxisomes. Plant Molecular Biology, 2014, 86, 201-214.	3.9	22
26	Disrupting Autophagy Restores Peroxisome Function to an <i>Arabidopsis lon2</i> Mutant and Reveals a Role for the LON2 Protease in Peroxisomal Matrix Protein Degradation. Plant Cell, 2013, 25, 4085-4100.	6.6	116
27	Genetic Dissection of Peroxisome-Associated Matrix Protein Degradation in <i>Arabidopsis thaliana</i> . Genetics, 2013, 193, 125-141.	2.9	51
28	Compensatory Mutations in Predicted Metal Transporters Modulate Auxin Conjugate Responsiveness in <i>Arabidopsis</i> . G3: Genes, Genomes, Genetics, 2013, 3, 131-141.	1.8	10
29	The 2012 Genetics Society of America Medal. Genetics, 2012, 191, 297-298.	2.9	0
30	A role for the root cap in root branching revealed by the non-auxin probe naxillin. Nature Chemical Biology, 2012, 8, 798-805.	8.0	118
31	Focus on Ubiquitin in Plant Biology. Plant Physiology, 2012, 160, 1-1.	4.8	20
32	Plant Peroxisomes: Biogenesis and Function. Plant Cell, 2012, 24, 2279-2303.	6.6	406
33	A gain-of-function mutation in IAA16 confers reduced responses to auxin and abscisic acid and impedes plant growth and fertility. Plant Molecular Biology, 2012, 79, 359-373.	3.9	107
34	Transport and Metabolism of the Endogenous Auxin Precursor Indole-3-Butyric Acid. Molecular Plant, 2011, 4, 477-486.	8.3	179
35	Reducing <i>PEX13</i> Expression Ameliorates Physiological Defects of Late-Acting Peroxin Mutants. Traffic, 2011, 12, 121-134.	2.7	31
36	Matrix proteins are inefficiently imported into <i>Arabidopsis</i> peroxisomes lacking the receptor-docking peroxin PEX14. Plant Molecular Biology, 2011, 77, 1-15.	3.9	39

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37	Multiple Facets of <i>Arabidopsis</i> Seedling Development Require Indole-3-Butyric Acid-Derived Auxin. <i>Plant Cell</i> , 2011, 23, 984-999.	6.6	149
38	Competencies: A Cure for Pre-Med Curriculum. <i>Science</i> , 2011, 334, 760-761.	12.6	2
39	Ethylene directs auxin to control root cell expansion. <i>Plant Journal</i> , 2010, 64, 874-884.	5.7	149
40	Interdependence of the Peroxisome-targeting Receptors in <i>Arabidopsis thaliana</i> : PEX7 Facilitates PEX5 Accumulation and Import of PTS1 Cargo into Peroxisomes. <i>Molecular Biology of the Cell</i> , 2010, 21, 1263-1271.	2.1	54
41	<i>Arabidopsis PIS1</i> encodes the ABCG37 transporter of auxinic compounds including the auxin precursor indole-3-butyric acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10749-10753.	7.1	183
42	Plant Physiology Celebrates Its 25,000th Article!. <i>Plant Physiology</i> , 2010, 154, 433-433.	4.8	0
43	Conversion of Endogenous Indole-3-Butyric Acid to Indole-3-Acetic Acid Drives Cell Expansion in <i>Arabidopsis</i> Seedlings. <i>Plant Physiology</i> , 2010, 153, 1577-1586.	4.8	162
44	Silver Ions Increase Auxin Efflux Independently of Effects on Ethylene Response. <i>Plant Cell</i> , 2009, 21, 3585-3590.	6.6	80
45	<i>Arabidopsis LON2</i> Is Necessary for Peroxisomal Function and Sustained Matrix Protein Import. <i>Plant Physiology</i> , 2009, 151, 1354-1365.	4.8	77
46	Disruption of <i>Arabidopsis</i> CHY1 Reveals an Important Role of Metabolic Status in Plant Cold Stress Signaling. <i>Molecular Plant</i> , 2009, 2, 59-72.	8.3	79
47	The <i>Arabidopsis</i> PLEIOTROPIC DRUG RESISTANCE8/ABCG36 ATP Binding Cassette Transporter Modulates Sensitivity to the Auxin Precursor Indole-3-Butyric Acid. <i>Plant Cell</i> , 2009, 21, 1992-2007.	6.6	185
48	Peroxisome-associated matrix protein degradation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4561-4566.	7.1	94
49	Sucrose induction of <i>Arabidopsis</i> miR398 represses two Cu/Zn superoxide dismutases. <i>Plant Molecular Biology</i> , 2008, 67, 403-417.	3.9	234
50	A new path to auxin. <i>Nature Chemical Biology</i> , 2008, 4, 337-339.	8.0	51
51	The IBR5 phosphatase promotes <i>Arabidopsis</i> auxin responses through a novel mechanism distinct from TIR1-mediated repressor degradation. <i>BMC Plant Biology</i> , 2008, 8, 41.	3.6	71
52	Cell signaling and gene regulation. <i>Current Opinion in Plant Biology</i> , 2008, 11, 471-473.	7.1	3
53	Criteria for Annotation of Plant MicroRNAs. <i>Plant Cell</i> , 2008, 20, 3186-3190.	6.6	1,158
54	Trinorlupeol: A Major Nonsterol Triterpenoid in <i>Arabidopsis</i> . <i>Organic Letters</i> , 2008, 10, 1897-1900.	4.6	20

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55	Identification and Characterization of Arabidopsis Indole-3-Butyric Acid Response Mutants Defective in Novel Peroxisomal Enzymes. <i>Genetics</i> , 2008, 180, 237-251.	2.9	143
56	Arabidopsis <i>iba response5</i> Suppressors Separate Responses to Various Hormones. <i>Genetics</i> , 2008, 180, 2019-2031.	2.9	49
57	Arabidopsis thaliana Squalene Epoxidase 1 Is Essential for Root and Seed Development. <i>Journal of Biological Chemistry</i> , 2007, 282, 17002-17013.	3.4	89
58	Mutation of E1-CONJUGATING ENZYME-RELATED1 Decreases RELATED TO UBIQUITIN Conjugation and Alters Auxin Response and Development. <i>Plant Physiology</i> , 2007, 144, 976-987.	4.8	30
59	IBR3, a novel peroxisomal acyl-CoA dehydrogenase-like protein required for indole-3-butyric acid response. <i>Plant Molecular Biology</i> , 2007, 64, 59-72.	3.9	102
60	MicroRNAs AND THEIR REGULATORY ROLES IN PLANTS. <i>Annual Review of Plant Biology</i> , 2006, 57, 19-53.	18.7	2,418
61	Biosynthetic diversity in plant triterpene cyclization. <i>Current Opinion in Plant Biology</i> , 2006, 9, 305-314.	7.1	326
62	An Arabidopsis Basic Helix-Loop-Helix Leucine Zipper Protein Modulates Metal Homeostasis and Auxin Conjugate Responsiveness. <i>Genetics</i> , 2006, 174, 1841-1857.	2.9	98
63	Mutations in Arabidopsis acyl-CoA oxidase genes reveal distinct and overlapping roles in $\hat{2}$ -oxidation. <i>Plant Journal</i> , 2005, 41, 859-874.	5.7	103
64	MicroRNAs directing siRNA biogenesis. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 569-571.	8.2	85
65	MicroRNA-Directed Regulation of Arabidopsis AUXIN RESPONSE FACTOR17 Is Essential for Proper Development and Modulates Expression of Early Auxin Response Genes. <i>Plant Cell</i> , 2005, 17, 1360-1375.	6.6	805
66	Identification and Functional Characterization of Arabidopsis PEROXIN4 and the Interacting Protein PEROXIN22[W]. <i>Plant Cell</i> , 2005, 17, 3422-3435.	6.6	112
67	An Auxin Transport Independent Pathway Is Involved in Phosphate Stress-Induced Root Architectural Alterations in Arabidopsis. Identification of BIG as a Mediator of Auxin in Pericycle Cell Activation. <i>Plant Physiology</i> , 2005, 137, 681-691.	4.8	181
68	The Arabidopsis Peroxisomal Targeting Signal Type 2 Receptor PEX7 Is Necessary for Peroxisome Function and Dependent on PEX5. <i>Molecular Biology of the Cell</i> , 2005, 16, 573-583.	2.1	136
69	Auxin: Regulation, Action, and Interaction. <i>Annals of Botany</i> , 2005, 95, 707-735.	2.9	1,876
70	A Receptor for Auxin. <i>Plant Cell</i> , 2005, 17, 2425-2429.	6.6	79
71	Weed Power, Translating Arabidopsis. <i>Plant Physiology</i> , 2004, 135, 601-601.	4.8	0
72	A Family of Auxin-Conjugate Hydrolases That Contributes to Free Indole-3-Acetic Acid Levels during Arabidopsis Germination. <i>Plant Physiology</i> , 2004, 135, 978-988.	4.8	220

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73	IAR4, a Gene Required for Auxin Conjugate Sensitivity in Arabidopsis, Encodes a Pyruvate Dehydrogenase E1 α Homolog. <i>Plant Physiology</i> , 2004, 135, 989-999.	4.8	38
74	An Arabidopsis indole-3-butyric acid-response mutant defective in PEROXIN6, an apparent ATPase implicated in peroxisomal function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1786-1791.	7.1	124
75	MicroRNA regulation of gene expression in plants. <i>Current Opinion in Plant Biology</i> , 2004, 7, 512-520.	7.1	221
76	MicroRNA Regulation of NAC-Domain Targets Is Required for Proper Formation and Separation of Adjacent Embryonic, Vegetative, and Floral Organs. <i>Current Biology</i> , 2004, 14, 1035-1046.	3.9	617
77	ILR2, a novel gene regulating IAA conjugate sensitivity and metal transport in Arabidopsis thaliana. <i>Plant Journal</i> , 2003, 35, 523-534.	5.7	41
78	A uniform system for microRNA annotation. <i>Rna</i> , 2003, 9, 277-279.	3.5	1,620
79	MicroRNAs: At the Root of Plant Development?. <i>Plant Physiology</i> , 2003, 132, 709-717.	4.8	389
80	IBR5, a Dual-Specificity Phosphatase-Like Protein Modulating Auxin and Abscisic Acid Responsiveness in Arabidopsis. <i>Plant Cell</i> , 2003, 15, 2979-2991.	6.6	150
81	PLANT BIOLOGY: Seeing Red. <i>Science</i> , 2003, 299, 352-353.	12.6	18
82	Characterization of a Family of IAA-Amino Acid Conjugate Hydrolases from Arabidopsis. <i>Journal of Biological Chemistry</i> , 2002, 277, 20446-20452.	3.4	262
83	MicroRNAs in plants. <i>Genes and Development</i> , 2002, 16, 1616-1626.	5.9	1,797
84	Prediction of Plant MicroRNA Targets. <i>Cell</i> , 2002, 110, 513-520.	28.9	2,088
85	Auxin Signaling. <i>Developmental Cell</i> , 2001, 1, 595-604.	7.0	61
86	Inputs to the Active Indole-3-Acetic Acid Pool: De Novo Synthesis, Conjugate Hydrolysis, and Indole-3-Butyric Acid β -Oxidation. <i>Journal of Plant Growth Regulation</i> , 2001, 20, 198-216.	5.1	174
87	A library of Arabidopsis 35S-cDNA lines for identifying novel mutants. , 2001, 46, 695-703.		76
88	The Arabidopsis <i>pxa1</i> Mutant Is Defective in an ATP-Binding Cassette Transporter-Like Protein Required for Peroxisomal Fatty Acid β -Oxidation. <i>Plant Physiology</i> , 2001, 127, 1266-1278.	4.8	300
89	A Gain-of-Function Mutation in IAA28 Suppresses Lateral Root Development. <i>Plant Cell</i> , 2001, 13, 465-480.	6.6	374
90	chy1, an Arabidopsis Mutant with Impaired β -Oxidation, Is Defective in a Peroxisomal β -Hydroxyisobutyryl-CoA Hydrolase. <i>Journal of Biological Chemistry</i> , 2001, 276, 31037-31046.	3.4	95

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91	A Gain-of-Function Mutation in IAA28 Suppresses Lateral Root Development. <i>Plant Cell</i> , 2001, 13, 465.	6.6	32
92	Cloning and Characterization of IAR1, a Gene Required for Auxin Conjugate Sensitivity in Arabidopsis. <i>Plant Cell</i> , 2000, 12, 2395.	6.6	3
93	Cloning and Characterization of IAR1, a Gene Required for Auxin Conjugate Sensitivity in Arabidopsis. <i>Plant Cell</i> , 2000, 12, 2395-2408.	6.6	97
94	FKF1, a Clock-Controlled Gene that Regulates the Transition to Flowering in Arabidopsis. <i>Cell</i> , 2000, 101, 331-340.	28.9	444
95	Genetic Analysis of Indole-3-butyric Acid Responses in <i>Arabidopsis thaliana</i> Reveals Four Mutant Classes. <i>Genetics</i> , 2000, 156, 1323-1337.	2.9	256
96	IAR3 Encodes an Auxin Conjugate Hydrolase from Arabidopsis. <i>Plant Cell</i> , 1999, 11, 365.	6.6	1
97	IAR3 Encodes an Auxin Conjugate Hydrolase from Arabidopsis. <i>Plant Cell</i> , 1999, 11, 365-376.	6.6	236
98	Redundancy as a way of life - IAA metabolism. <i>Current Opinion in Plant Biology</i> , 1999, 2, 207-213.	7.1	172
99	Cloning and characterization of the Arabidopsis thaliana lupeol synthase gene. <i>Phytochemistry</i> , 1998, 49, 1905-1911.	2.9	123
100	Arabidopsis Mutants Resistant to the Auxin Effects of Indole-3-Acetonitrile Are Defective in the Nitrilase Encoded by the NIT1 Gene. <i>Plant Cell</i> , 1997, 9, 1781.	6.6	0
101	AUXIN BIOSYNTHESIS. <i>Annual Review of Plant Biology</i> , 1997, 48, 51-66.	14.3	286
102	ILLR1, an amidohydrolase that releases active indole-3-acetic acid from conjugates. <i>Science</i> , 1995, 268, 1745-1748.	12.6	260
103	Differential regulation of an auxin-producing nitrilase gene family in Arabidopsis thaliana.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 6649-6653.	7.1	188
104	Molecular cloning, characterization, and overexpression of ERG7, the Saccharomyces cerevisiae gene encoding lanosterol synthase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 2211-2215.	7.1	117
105	Isolation of an Arabidopsis thaliana gene encoding cycloartenol synthase by functional expression in a yeast mutant lacking lanosterol synthase by the use of a chromatographic screen.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 11628-11632.	7.1	216
106	The N-end rule is mediated by the UBC2(RAD6) ubiquitin-conjugating enzyme.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 7351-7355.	7.1	264
107	The tails of ubiquitin precursors are ribosomal proteins whose fusion to ubiquitin facilitates ribosome biogenesis. <i>Nature</i> , 1989, 338, 394-401.	27.8	697
108	Hypersensitivity to heavy water: A new conditional phenotype. <i>Cell</i> , 1988, 52, 935-941.	28.9	30

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109	Molecular Genetics of the Ubiquitin System. , 1988, , 39-75.		7
110	Behavior and brain neurotransmitters: Correlations in different strains of mice. Behavioral and Neural Biology, 1986, 46, 30-45.	2.2	12