Dietmar J J Manstein

List of Publications by Year
in descending order

147 papers	7,849 citations	47006 47 h-index	54911 84 g-index
158 all docs	158 docs citations	158 times ranked	9665 citing authors

#	Article	IF	Citations
1	Membrane Remodeling Induced by the Dynamin-Related Protein Drp1 Stimulates Bax Oligomerization. Cell, 2010, 142, 889-901.	28.9	360
2	Structure of the F-actinâ€“tropomyosin complex. Nature, 2015, 519, 114-117.	27.8	321
3	Three-dimensional atomic model of F-actin decorated with Dictyostelium myosin S1. Nature, 1993, 364, 171-174.	27.8	311
4	Structure of the Rigor Actin-Tropomyosin-Myosin Complex. Cell, 2012, 150, 327-338.	28.9	297
5	Lighting up the cell surface with evanescent wave microscopy. Trends in Cell Biology, 2001, 11, 298-303.	7.9	273
6	Toxoplasma gondii myosin A and its light chain: a fast, single-headed, plus-end-directed motor. EMBO Journal, 2002, 21, 2149-2158.	7.8	225
7	Cryo-EM structure of a human cytoplasmic actomyosin complex at near-atomic resolution. Nature, 2016, 534, 724-728.	27.8	212
8	Cloning vectors for the production of proteins in Dictyostelium discoideum. Gene, 1995, 162, 129-134.	2.2	202
9	Nonmuscle myosin-2: mix and match. Cellular and Molecular Life Sciences, 2013, 70, 1-21.	5.4	197
10	Mutant IDH1 promotes leukemogenesis in vivo and can be specifically targeted in human AML. Blood, 2013, 122, 2877-2887.	1.4	186
11	PEVK Domain of Titin: An Entropic Spring with Actin-Binding Properties. Journal of Structural Biology, 2002, 137, 194-205.	2.8	179
12	Modulation of Actin Affinity and Actomyosin Adenosine Triphosphatase by Charge Changes in the Myosin Motor Domainâ€. Biochemistry, 1998, 37, 6317-6326.	2.5	171
13	A structural model for actin-induced nucleotide release in myosin. Nature Structural and Molecular Biology, 2003, 10, 826-830.	8.2	159
14	Interaction Between PEVK-Titin and Actin Filaments. Circulation Research, 2001, 89, 874-881.	4.5	150
15	Nanometer targeting of microtubules to focal adhesions. Journal of Cell Biology, 2003, 161, 853-859.	5.2	149
16	Tropomyosin Isoforms Specify Functionally Distinct Actin Filament Populations InÂVitro. Current Biology, 2017, 27, 705-713.	3.9	127
17	Treatments targeting inotropy. European Heart Journal, 2019, 40, 3626-3644.	2.2	123
18	Molecular engineering of a backwards-moving myosin motor. Nature, 2004, 427, 558-561.	27.8	116

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19	Crystal structure of the dynamin tetramer. Nature, 2015, 525, 404-408.	27.8	115
20	Single-molecule tracking of myosins with genetically engineered amplifier domains. Nature Structural Biology, 2001, 8, 226-229.	9.7	113
21	Disruption of a Dynamin Homologue Affects Endocytosis, Organelle Morphology, and Cytokinesis inDictyostelium discoideum. Molecular Biology of the Cell, 1999, 10, 225-243.	2.1	105
22	Kinetic characterization of a cytoplasmic myosin motor domain expressed in Dictyostelium discoideum.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8619-8623.	7.1	103
23	Crystal structure of a dynamin GTPase domain in both nucleotide-free and GDP-bound forms. EMBO Journal, 2001, 20, 5813-5821.	7.8	102
24	Pink-beam serial crystallography. Nature Communications, 2017, 8, 1281.	12.8	101
25	Absolute stereochemistry of flavins in enzyme-catalyzed reactions. Biochemistry, 1986, 25, 6807-6816.	2.5	98
26	Crystal structure of the motor domain of a class-I myosin. EMBO Journal, 2002, 21, 2517-2525.	7.8	94
27	Inward H ⁺ pump xenorhodopsin: Mechanism and alternative optogenetic approach. Science Advances, 2017, 3, e1603187.	10.3	93
28	Molecular mechanism of actomyosin-based motility. Cellular and Molecular Life Sciences, 2005, 62, 1462-1477.	5.4	87
29	Expression and characterization of a functional myosin head fragment in Dictyostelium discoideum. Science, 1989, 246, 656-658.	12.6	84
30	Role of the salt-bridge between switch-1 and switch-2 of Dictyostelium myosin 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 290, 797-809.	4.2	83
31	Dictyostelium discoideum Myosin II:â€‰ Characterization of Functional Myosin Motor Fragments. Biochemistry, 1997, 36, 317-323.	2.5	79
32	Total Synthesis of Pentabromoâ€•and Pentachloropseudilin, and Synthetic Analoguesâ€”Allosteric Inhibitors of Myosin ATPase. Angewandte Chemie - International Edition, 2009, 48, 8042-8046.	13.8	78
33	Distinct Functional Interactions between Actin Isoforms and Nonsarcomeric Myosins. PLoS ONE, 2013, 8, e70636.	2.5	74
34	[27] Molecular genetic tools for study of the cytoskeleton in Dictyostelium. Methods in Enzymology, 1991, 196, 319-334.	1.0	73
35	Overexpression of myosin motor domains in Dictyostelium: screening of transformants and purification of the affinity tagged protein. Journal of Muscle Research and Cell Motility, 1995, 16, 325-332.	2.0	73
36	The mechanism of pentabromopseudilin inhibition of myosin motor activity. Nature Structural and Molecular Biology, 2009, 16, 80-88.	8.2	69

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37	Crystal structure of the GTPase domain of rat dynamin 1. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13093-13098.	7.1	67
38	Loss of functional MYO1C/myosin 1c, a motor protein involved in lipid raft trafficking, disrupts autophagosome-lysosome fusion. Autophagy, 2014, 10, 2310-2323.	9.1	63
39	The Activation Mechanism of 2â€²-5â€²-Oligoadenylate Synthetase Gives New Insights Into OAS/cGAS Triggers of Innate Immunity. Structure, 2015, 23, 851-862.	3.3	61
40	Unique structure and function of viral rhodopsins. Nature Communications, 2019, 10, 4939.	12.8	59
41	Kinetic Analysis ofDictyostelium discoideumMyosin Motor Domains with Glycine-to-Alanine Mutations in the Reactive Thiol Regionâ€. Biochemistry, 1999, 38, 6126-6134.	2.5	58
42	Structure of a genetically engineered molecular motor. EMBO Journal, 2001, 20, 40-46.	7.8	58
43	Mechanism and Specificity of Pentachloropseudilin-mediated Inhibition of Myosin Motor Activity. Journal of Biological Chemistry, 2011, 286, 29700-29708.	3.4	56
44	Myosin Structure, Allostery, and Mechano-Chemistry. Structure, 2013, 21, 1911-1922.	3.3	56
45	Load-dependent modulation of non-muscle myosin-2A function by tropomyosin 4.2. Scientific Reports, 2016, 6, 20554.	3.3	56
46	Acute-Phase Protein Î±1-Antitrypsin Inhibits Neutrophil Calpain I and Induces Random Migration. Molecular Medicine, 2011, 17, 865-874.	4.4	54
47	Crystal Structure of the Intact Archaeal Translation Initiation Factor 2 Demonstrates Very High Conformational Flexibility in the Î±- and Î²-Subunits. Journal of Molecular Biology, 2008, 382, 680-691.	4.2	53
48	Functional characterization of the human Î±-cardiac actin mutations Y166C and M305L involved in hypertrophic cardiomyopathy. Cellular and Molecular Life Sciences, 2012, 69, 3457-3479.	5.4	52
49	Functional Characterization of Human Myosin-18A and Its Interaction with F-actin and GOLPH3. Journal of Biological Chemistry, 2013, 288, 30029-30041.	3.4	52
50	Recombinant motor domain constructs of Chara corallina myosin display fast motility and high ATPase activity. Biochemical and Biophysical Research Communications, 2003, 312, 958-964.	2.1	51
51	Comparative Kinetic and Functional Characterization of the Motor Domains of Human Nonmuscle Myosin-2C Isoforms. Journal of Biological Chemistry, 2011, 286, 21191-21202.	3.4	51
52	Changes in Mg2+ Ion Concentration and Heavy Chain Phosphorylation Regulate the Motor Activity of a Class I Myosin. Journal of Biological Chemistry, 2005, 280, 6064-6071.	3.4	49
53	Crystal Structure of Human Myosin 1câ€”The Motor in GLUT4 Exocytosis: Implications for Ca2+ Regulation and 14-3-3 Binding. Journal of Molecular Biology, 2014, 426, 2070-2081.	4.2	49
54	Mutations in the relay loop region result in dominantâ€negative inhibition of myosin II function in Dictyostelium. EMBO Reports, 2002, 3, 1099-1105.	4.5	47

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55	Small molecule-mediated refolding and activation of myosin motor function. ELife, 2014, 3, e01603.	6.0	47
56	Co-polymers of Actin and Tropomyosin Account for a Major Fraction of the Human Actin Cytoskeleton. Current Biology, 2018, 28, 2331-2337.e5.	3.9	47
57	Dictyostelium myosin-IE is a fast molecular motor involved in phagocytosis. Journal of Cell Science, 2006, 119, 550-558.	2.0	46
58	Complementation of myosin null mutants in Dictyostelium discoideum by direct functional selection. Developmental Biology, 1990, 137, 359-367.	2.0	45
59	The dynamin A ring complex: molecular organization and nucleotide-dependent conformational changes. EMBO Journal, 2002, 21, 240-250.	7.8	43
60	Kinetic properties and smallâ€molecule inhibition of human myosinâ€6. FEBS Letters, 2012, 586, 3208-3214.	2.8	43
61	Three mammalian tropomyosin isoforms have different regulatory effects on nonmuscle myosin-2B and filamentous Î²-actin in vitro. Journal of Biological Chemistry, 2018, 293, 863-875.	3.4	40
62	Inhibition of Myosin ATPase Activity by Halogenated Pseudilins: A Structureâ€“Activity Study. Journal of Medicinal Chemistry, 2011, 54, 3675-3685.	6.4	39
63	Kinetic characterization of the catalytic domain of Dictyostelium discoideum myosin. Biochemistry, 1995, 34, 16056-16064.	2.5	38
64	Functional Characterisation of Dictyostelium Myosin II with Conserved Tryptophanyl Residue 501 Mutated to Tyrosine. Biological Chemistry, 1999, 380, 1017-1023.	2.5	38
65	Variants in exons 5 and 6 of ACTB cause syndromic thrombocytopenia. Nature Communications, 2018, 9, 4250.	12.8	38
66	Molecular mechanisms of diseaseâ€related human Î²â€actin mutations p.R183W and p.E364K. FEBS Journal, 2014, 281, 5279-5291.	4.7	37
67	Stereochemistry and accessibility of prosthetic groups in flavoproteins. Biochemistry, 1988, 27, 2300-2305.	2.5	36
68	Stabilization of the Actomyosin Complex by Negative Charges on Myosinâ€. Biochemistry, 2000, 39, 11602-11608.	2.5	35
69	Tropomyosinâ€Mediated Regulation of Cytoplasmic Myosins. Traffic, 2016, 17, 872-877.	2.7	35
70	Disturbed Communication between Actin- and Nucleotide-binding Sites in a Myosin II with Truncated 50/20-kDa Junction. Journal of Biological Chemistry, 1999, 274, 20133-20138.	3.4	34
71	Expression vectors for studying cytoskeletal proteins in Dictyostelium discoideum. Journal of Muscle Research and Cell Motility, 2002, 23, 605-611.	2.0	32
72	3D structure of Thermus aquaticus single-stranded DNA-binding protein gives insight into the functioning of SSB proteins. Nucleic Acids Research, 2006, 34, 6708-6717.	14.5	32

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73	Functional Characterization of the N-terminal Region of Myosin-2. Journal of Biological Chemistry, 2006, 281, 36102-36109.	3.4	32
74	Total synthesis of biologically active alkaloids using transition metals. Pure and Applied Chemistry, 2010, 82, 1975-1991.	1.9	32
75	Functional characterization of the human myosin-7a motor domain. Cellular and Molecular Life Sciences, 2012, 69, 299-311.	5.4	32
76	Charge Changes in Loop 2 Affect the Thermal Unfolding of the Myosin Motor Domain Bound to F-Actinâ€. Biochemistry, 2000, 39, 4527-4532.	2.5	31
77	Unusual Anchor of a Motor Complex (MyoDâ€“MLC2) to the Plasma Membrane of Toxoplasma gondii. Traffic, 2011, 12, 287-300.	2.7	31
78	Dictyostelium Myosin-5b Is a Conditional Processive Motor. Journal of Biological Chemistry, 2008, 283, 26902-26910.	3.4	30
79	Kinetic Characterization of Myosin Head Fragments with Long-Lived MyosinÂ·ATP Statesâ€. Biochemistry, 1998, 37, 9679-9687.	2.5	29
80	Functional Characterization of the Secondary Actin Binding Site of Myosin IIâ€. Biochemistry, 1999, 38, 15078-15085.	2.5	29
81	New Insights into the Interactions of the Translation Initiation Factor 2 from Archaea with Guanine Nucleotides and Initiator tRNA. Journal of Molecular Biology, 2007, 373, 328-336.	4.2	29
82	The Dictyostelium Bcr/Abr-related protein DRG regulates both Rac- and Rab-dependent pathways. EMBO Journal, 2001, 20, 1620-1629.	7.8	26
83	Enzymatic Activity and Motility of Recombinant Arabidopsis Myosin XI, MYA1. Plant and Cell Physiology, 2007, 48, 886-891.	3.1	26
84	Site-directed mutagenesis of the Ï‡ subunit of DNA polymerase III and single-stranded DNA-binding protein of E. coli reveals key residues for their interaction. Nucleic Acids Research, 2011, 39, 1398-1407.	14.5	26
85	The Ras Pathway Modulator Melophlinâ€…A Targets Dynamins. Angewandte Chemie - International Edition, 2009, 48, 7240-7245.	13.8	24
86	Actinâ€“tropomyosin distribution in non-muscle cells. Journal of Muscle Research and Cell Motility, 2020, 41, 11-22.	2.0	23
87	Mechanistic insights into the active site and allosteric communication pathways in human nonmuscle myosin-2C. ELife, 2017, 6, .	6.0	22
88	Phenamacril is a reversible and noncompetitive inhibitor of Fusarium class I myosin. Journal of Biological Chemistry, 2019, 294, 1328-1337.	3.4	21
89	Mechanism, Regulation, and Functional Properties of Dictyostelium Myosin-1B. Journal of Biological Chemistry, 2008, 283, 4520-4527.	3.4	20
90	Dictyostelium dynamin B modulates cytoskeletal structures and membranous organelles. Cellular and Molecular Life Sciences, 2011, 68, 2751-2767.	5.4	20

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91	Differences in the ionic interaction of actin with the motor domains of nonmuscle and muscle myosin II. FEBS Journal, 1999, 260, 672-683.	0.2	19
92	Targeted Optimization of a Protein Nanomachine for Operation in Biohybrid Devices. Angewandte Chemie - International Edition, 2010, 49, 312-316.	13.8	19
93	Differential scanning calorimetric study of the thermal unfolding of the motor domain fragments of Dictyostelium discoideum myosin II. FEBS Journal, 1998, 251, 275-280.	0.2	18
94	Crystal structure of the rigorâ€like human nonâ€muscle myosinâ€2 motor domain. FEBS Letters, 2014, 588, 4754-4760.	2.8	18
95	Silver(I)â€Catalyzed Route to Pyrroles: Synthesis of Halogenated Pseudilins as Allosteric Inhibitors for Myosin ATPase and Xâ€ray Crystal Structures of the Proteinâ€“Inhibitor Complexes. European Journal of Organic Chemistry, 2014, 2014, 4487-4505.	2.4	18
96	Structural and biochemical studies of sulphotransferase 18 from Arabidopsis thaliana explain its substrate specificity and reaction mechanism. Scientific Reports, 2017, 7, 4160.	3.3	18
97	Phalloidin perturbs the interaction of human non-muscle myosin isoforms 2A and 2C1 with F-actin. FEBS Letters, 2011, 585, 767-771.	2.8	17
98	Molecular engineering of myosin. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 1907-1912.	4.0	15
99	Structural Basis for the Allosteric Interference of Myosin Function by Reactive Thiol Region Mutations G680A and G680V. Journal of Biological Chemistry, 2011, 286, 35051-35060.	3.4	15
100	N-terminal splicing extensions of the human MYO1C gene fine-tune the kinetics of the three full-length myosin IC isoforms. Journal of Biological Chemistry, 2017, 292, 17804-17818.	3.4	14
101	Distinct actinâ€“tropomyosin cofilament populations drive the functional diversification of cytoskeletal myosin motor complexes. IScience, 2022, 25, 104484.	4.1	13
102	Kinetic and Thermodynamic Analysis of the Light-induced Processes in Plant and Cyanobacterial Phytochromes. Biophysical Journal, 2013, 105, 2210-2220.	0.5	11
103	Structural and Biochemical Characterization of a Dye-Decolorizing Peroxidase from Dictyostelium discoideum. International Journal of Molecular Sciences, 2021, 22, 6265.	4.1	11
104	Small Molecule Effectors of Myosin Function. Advances in Experimental Medicine and Biology, 2020, 1239, 61-84.	1.6	9
105	Myosin-18B Regulates Higher-Order Organization of the Cardiac Sarcomere through Thin Filament Cross-Linking and Thick Filament Dynamics. Cell Reports, 2020, 32, 108090.	6.4	8
106	Analysis of post-translational modification and characterization of the domain structure of dynamin A fromDictyostelium discoideum. Journal of Mass Spectrometry, 2003, 38, 277-282.	1.6	7
107	Frameshift mutation S368fs in the gene encoding cytoskeletal Î²-actin leads to ACTB-associated syndromic thrombocytopenia by impairing actin dynamics. European Journal of Cell Biology, 2022, 101, 151216.	3.6	7
108	4.8 Myosin Motors: Structural Aspects and Functionality. , 2012, , 118-150.		6

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109	Expression, purification, crystallization and preliminary X-ray crystallographic analysis of human myosin 1c in complex with calmodulin. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1020-1022.	0.7	5
110	Conformational changes in actinâ€“myosin isoforms probed by Ni(II)Â·Glyâ€“Glyâ€“His reactivity. Journal of Muscle Research and Cell Motility, 2004, 25, 527-537.	2.0	4
111	Expression, purification and crystallization of a dye-decolourizing peroxidase from Dictyostelium discoideum. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 252-255.	0.8	4
112	Ultrastructure of native lipoprotein from Escherichia coli envelopes. Journal of Molecular Biology, 1986, 189, 701-707.	4.2	3
113	Interaction of Myosin Subfragment 1 with Forms of Monomeric Actinâ€. Biochemistry, 2003, 42, 3060-3069.	2.5	3
114	Functional Dissection of the Dictyostelium discoideum Dynamin B Mitochondrial Targeting Sequence. PLoS ONE, 2013, 8, e56975.	2.5	3
115	Mechanochemical properties of human myosin-1C are modulated by isoform-specific differences in the N-terminal extension. Journal of Biological Chemistry, 2021, 296, 100128.	3.4	3
116	Muscle myosin performance measured with a synthetic nanomachine reveals a classâ€specific Ca 2+ â€sensitivity of the frog myosin II isoform. Journal of Physiology, 2021, 599, 1815-1831.	2.9	3
117	EMD57033 Acts as a Pharmacological Chaperone Stabilizing and Activating Myosin Motor Activity. Biophysical Journal, 2012, 102, 354a.	0.5	2
118	Improvement of image resolution by combining enhanced confocal microscopy and quantum dot triexciton imaging. FEBS Open Bio, 2021, 11, 3324-3330.	2.3	2
119	CORE-MD II: A fast, adaptive, and accurate enhanced sampling method. Journal of Chemical Physics, 2021, 155, 104114.	3.0	2
120	Assessment of the Contribution of a Thermodynamic and Mechanical Destabilization of Myosin-Binding Protein C Domain C2 to the Pathomechanism of Hypertrophic Cardiomyopathy-Causing Double Mutation MYBPC3Î”25bp/D389V. International Journal of Molecular Sciences, 2021, 22, 11949.	4.1	2
121	Mutations in the relay loop region result in dominantâ€negative inhibition of myosin II function in Dictyostelium. EMBO Reports, 2002, 3, 1228-1228.	4.5	1
122	Human Myosin-18B - A Versatile Actin Binding Protein. Biophysical Journal, 2014, 106, 179a-180a.	0.5	1
123	Structure of the F-Actin-Tropomyosin Complex Revealed by Electron Cryomicroscopy. Biophysical Journal, 2016, 110, 156a.	0.5	1
124	Undefeatedâ€”Changing the phenamacril scaffold is not enough to beat resistant Fusarium. PLoS ONE, 2020, 15, e0235568.	2.5	1
125	Allosteric modulation of cardiac myosin mechanics and kinetics by the conjugated omegaâ€7,9 transâ€fat rumenic acid. Journal of Physiology, 2021, 599, 3639-3661.	2.9	1
126	A New Approach for the Identification of Allosteric Binding Sites in Proteins. FASEB Journal, 2012, 26, 964.6.	0.5	1

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127	Seeing More by Seeing Less: TIRFM Imaging of Cytoskeleton and Membrane Dynamics. Microscopy and Microanalysis, 2004, 10, 1232-1233.	0.4	0
128	Structure-Function Studies of Myosin Motor Domains. Biophysical Journal, 2009, 96, 553a-554a.	0.5	0
129	Targeted Optimization of a Molecular Motor for Controlling Movement in Biohybrid Devices. Biophysical Journal, 2010, 98, 606a.	0.5	0
130	Switch-2 Dependent Modulation of the Myosin Power Stroke. Biophysical Journal, 2010, 98, 143a-144a.	0.5	0
131	Spotlight onâ€¦ Dietmar Manstein. FEBS Letters, 2011, 585, 2401-2402.	2.8	0
132	Subnanometer Structure of the Actin/Myosin/Tropomyosin Complex. Biophysical Journal, 2012, 102, 16a.	0.5	0
133	Functional Characterization of Human Myosin-18A and its Interaction Partners. Biophysical Journal, 2012, 102, 570a.	0.5	0
134	Functional Characterization of Disease-Related Human Î²-Actin Mutants. Biophysical Journal, 2014, 106, 570a.	0.5	0
135	Structural and Functional Characterization of Nonmuscle Myosin-2B in the Presence of Regulated Actin Filaments. Biophysical Journal, 2014, 106, 570a-571a.	0.5	0
136	Structural Basis of Myosin 1C Ca2+ Regulation. Biophysical Journal, 2014, 106, 180a.	0.5	0
137	Arachidonic Acid Directly Binds and Activates Beta-Cardiac Myosin in the Regulated Cardiac Actomyosin Complex. Biophysical Journal, 2016, 110, 614a.	0.5	0
138	The structural and mechanistic basis of allosteric modulation of myosin motor activity by pharmacological agents. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s20-s20.	0.3	0
139	Functional characterization of mitofusinâ€like protein from Dictyostelium discoideum. FASEB Journal, 2012, 26, lb205.	0.5	0
140	Mutated IDH1 Has 2-Hydroxyglutarate-Independent Functions in Leukemogenesis. Blood, 2012, 120, 770-770.	1.4	0
141	Low-background pink-beam serial crystallography. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, a405-a405.	0.1	0
142	Undefeatedâ€"Changing the phenamacril scaffold is not enough to beat resistant Fusarium. , 2020, 15, e0235568.		0
143	Undefeatedâ€"Changing the phenamacril scaffold is not enough to beat resistant Fusarium. , 2020, 15, e0235568.		0
144	Undefeatedâ€"Changing the phenamacril scaffold is not enough to beat resistant Fusarium. , 2020, 15, e0235568.		0

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145	Undefeatedâ€"Changing the phenamacril scaffold is not enough to beat resistant Fusarium. , 2020, 15, e0235568.		0
146	Undefeatedâ€"Changing the phenamacril scaffold is not enough to beat resistant Fusarium. , 2020, 15, e0235568.		0
147	Undefeatedâ€"Changing the phenamacril scaffold is not enough to beat resistant Fusarium. , 2020, 15, e0235568.		0