

Immune Defenses against *Batrachochytrium dendrobatidis*
Amphibian Declines, in the South African Clawed Frog, *Amphibia*

Infection and Immunity

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Citation Report

#	ARTICLE	IF	CITATIONS
1	What Drives Chytrid Infections in Newt Populations? Associations with Substrate, Temperature, and Shade. <i>EcoHealth</i> , 2010, 7, 526-536.	2.0	80
2	Phenotypic profiling of <i>Batrachochytrium dendrobatidis</i> , a lethal fungal pathogen of amphibians. <i>Fungal Ecology</i> , 2011, 4, 196-200.	1.6	26
3	The genus <i>Xenopus</i> as a multispecies model for evolutionary and comparative immunobiology of the 21st century. <i>Developmental and Comparative Immunology</i> , 2011, 35, 916-923.	2.3	39
4	Effects of atrazine, agricultural runoff, and selected effluents on antimicrobial activity of skin peptides in <i>Xenopus laevis</i> . <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 593-599.	6.0	15
5	Amphibian Immune Defenses against Chytridiomycosis: Impacts of Changing Environments. <i>Integrative and Comparative Biology</i> , 2011, 51, 552-562.	2.0	193
6	Short-Term Exposure to Warm Microhabitats Could Explain Amphibian Persistence with <i>Batrachochytrium dendrobatidis</i> . <i>PLoS ONE</i> , 2011, 6, e26215.	2.5	44
7	Environmental Refuge from Disease-Driven Amphibian Extinction. <i>Conservation Biology</i> , 2011, 25, 956-964.	4.7	142
8	Larval fitness and immunogenetic diversity in chytrid-infected and uninfected natterjack toad (<i>Bufo</i>) Tj ETQq1 1 0.784314 rgBT /Over	1.5	24
9	Mitigating amphibian disease: strategies to maintain wild populations and control chytridiomycosis. <i>Frontiers in Zoology</i> , 2011, 8, 8.	2.0	197
10	Interactions between <i>Batrachochytrium dendrobatidis</i> and its amphibian hosts: a review of pathogenesis and immunity. <i>Microbes and Infection</i> , 2011, 13, 25-32.	1.9	113
11	MHC genotypes associate with resistance to a frog-killing fungus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16705-16710.	7.1	324
12	A Reservoir Species for the Emerging Amphibian Pathogen <i>Batrachochytrium dendrobatidis</i> Thrives in a Landscape Decimated by Disease. <i>PLoS ONE</i> , 2012, 7, e33567.	2.5	127
13	Context-dependent symbioses and their potential roles in wildlife diseases. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1457-1465.	2.6	76
14	Host invasion by <i>Batrachochytrium dendrobatidis</i> : fungal and epidermal ultrastructure in model anurans. <i>Diseases of Aquatic Organisms</i> , 2012, 100, 201-210.	1.0	48
15	Synergistic Inhibition of the Lethal Fungal Pathogen <i>Batrachochytrium dendrobatidis</i> : The Combined Effect of Symbiotic Bacterial Metabolites and Antimicrobial Peptides of the Frog <i>Rana muscosa</i> . <i>Journal of Chemical Ecology</i> , 2012, 38, 958-965.	1.8	78
16	Oral immunization of the African clawed frog (<i>Xenopus laevis</i>) upregulates the mucosal immunoglobulin IgX. <i>Veterinary Immunology and Immunopathology</i> , 2012, 145, 493-498.	1.2	22
17	Soil bioaugmentation with amphibian cutaneous bacteria protects amphibian hosts from infection by <i>Batrachochytrium dendrobatidis</i> . <i>Biological Conservation</i> , 2012, 152, 119-126.	4.1	94
18	Norepinephrine depletion of antimicrobial peptides from the skin glands of <i>Xenopus laevis</i> . <i>Developmental and Comparative Immunology</i> , 2012, 37, 19-27.	2.3	25

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19	The ebb and flow of antimicrobial skin peptides defends northern leopard frogs (<i>Rana pipiens</i>) against chytridiomycosis. <i>Journal of Herpetology</i> , 2012, 46, 10-17.	9.5	41
20	Immune evasion or avoidance: Fungal skin infection linked to reduced defence peptides in Australian green-eyed treefrogs, <i>Litoria serrata</i> . <i>Fungal Biology</i> , 2012, 116, 1203-1211.	2.5	22
21	Interaction between breeding habitat and elevation affects prevalence but not infection intensity of <i>Batrachochytrium dendrobatidis</i> in Brazilian anuran assemblages. <i>Diseases of Aquatic Organisms</i> , 2012, 97, 173-184.	1.0	45
22	Dietary protein restriction impairs growth, immunity, and disease resistance in southern leopard frog tadpoles. <i>Oecologia</i> , 2012, 169, 23-31.	2.0	91
23	Only skin deep: shared genetic response to the deadly chytrid fungus in susceptible frog species. <i>Molecular Ecology</i> , 2012, 21, 3110-3120.	3.9	82
24	Getting under and through the skin: ecological genomics of chytridiomycosis infection in frogs. <i>Molecular Ecology</i> , 2012, 21, 3095-3097.	3.9	2
25	Evaluation of the Skin Peptide Defenses of the Oregon Spotted Frog <i>Rana pretiosa</i> Against Infection by the Chytrid Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Journal of Chemical Ecology</i> , 2013, 39, 797-805.	1.8	11
26	Experimental evidence for a cost of resistance to the fungal pathogen, <i>Batrachochytrium dendrobatidis</i> , for the palmate newt, <i>Lissotriton helveticus</i> . <i>BMC Ecology</i> , 2013, 13, 27.	3.0	17
27	Larval exposure to predator cues alters immune function and response to a fungal pathogen in postmetamorphic wood frogs. <i>Ecological Applications</i> , 2013, 23, 1443-1454.	3.8	26
28	Mitigating amphibian chytridiomycosis with bioaugmentation: characteristics of effective probiotics and strategies for their selection and use. <i>Ecology Letters</i> , 2013, 16, 807-820.	6.4	239
29	Fitness Consequences of Infection by <i>Batrachochytrium dendrobatidis</i> in Northern Leopard Frogs (<i>Lithobates pipiens</i>). <i>EcoHealth</i> , 2013, 10, 90-98.	2.0	37
30	Bacterial flora on Cascades frogs in the Klamath mountains of California. <i>Comparative Immunology, Microbiology and Infectious Diseases</i> , 2013, 36, 591-598.	1.6	19
31	Disease in a dynamic landscape: Host behavior and wildfire reduce amphibian chytrid infection. <i>Biological Conservation</i> , 2013, 157, 293-299.	4.1	47
32	An immunomodulatory peptide related to frenatin 2 from skin secretions of the Tyrrhenian painted frog <i>Discoglossus sardus</i> (Alytidae). <i>Peptides</i> , 2013, 40, 65-71.	2.4	25
33	Screening bacterial metabolites for inhibitory effects against <i>Batrachochytrium dendrobatidis</i> using a spectrophotometric assay. <i>Diseases of Aquatic Organisms</i> , 2013, 103, 77-85.	1.0	73
34	Skin peptides protect juvenile leopard frogs (<i>Rana pipiens</i>) against chytridiomycosis. <i>Journal of Experimental Biology</i> , 2013, 216, 2908-16.	1.7	31
35	Interspecific and Postmetamorphic Variation in Susceptibility of Three North American Anurans to <i>Batrachochytrium dendrobatidis</i> . <i>Journal of Herpetology</i> , 2013, 47, 286-292.	0.5	19
36	Evolution of B Cell Immunity. <i>Annual Review of Animal Biosciences</i> , 2013, 1, 65-97.	7.4	116

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37	Measuring Chromatin Interaction Dynamics on the Second Time Scale at Single-Copy Genes. <i>Science</i> , 2013, 342, 369-372.	12.6	83
38	Interactive effects of competition and predator cues on immune responses of leopard frogs at metamorphosis. <i>Journal of Experimental Biology</i> , 2014, 217, 351-8.	1.7	17
39	The Invasive Chytrid Fungus of Amphibians Paralyzes Lymphocyte Responses. <i>Science</i> , 2013, 342, 366-369.	12.6	154
40	Origin and Functional Diversification of an Amphibian Defense Peptide Arsenal. <i>PLoS Genetics</i> , 2013, 9, e1003662.	3.5	47
41	Teleost skin, an ancient mucosal surface that elicits gut-like immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13097-13102.	7.1	420
42	Host Stress Response Is Important for the Pathogenesis of the Deadly Amphibian Disease, Chytridiomycosis, in <i>Litoria caerulea</i> . <i>PLoS ONE</i> , 2013, 8, e62146.	2.5	54
43	Parallels in Amphibian and Bat Declines from Pathogenic Fungi. <i>Emerging Infectious Diseases</i> , 2013, 19, 379-385.	4.3	26
44	The Immunoglobulins of Cold-Blooded Vertebrates. <i>Biomolecules</i> , 2014, 4, 1045-1069.	4.0	70
45	Confronting inconsistencies in the amphibian-chytridiomycosis system: implications for disease management. <i>Biological Reviews</i> , 2014, 89, 477-483.	10.4	57
46	Resistance of morphological and behavioral sexual traits of the Alpine newt (<i>Lissotriton helveticus</i>) to bacterial lipopolysaccharide treatment. <i>Amphibia - Reptilia</i> , 2014, 35, 63-71.	0.5	7
47	Fighting a Losing Battle: Vigorous Immune Response Countered by Pathogen Suppression of Host Defenses in the Chytridiomycosis-Susceptible Frog <i>Atelopus zeteki</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1275-1289.	1.8	95
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51	BASILINE CUTANEOUS BACTERIA OF FREE-LIVING NEW ZEALAND NATIVE FROGS (<i>LEIOPELMA</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 AGAINST THE AMPHIBIAN CHYTRID (<i>BATRACHOCHYTRIUM DENDROBATIDIS</i>). <i>Journal of Wildlife Diseases</i> , 2014, 50, 723-732.	0.8	10
52	Stress and chytridiomycosis: Exogenous exposure to corticosterone does not alter amphibian susceptibility to a fungal pathogen. <i>Journal of Experimental Zoology</i> , 2014, 321, 243-253.	1.2	29
53	Evaluation of Amphotericin B and Chloramphenicol as Alternative Drugs for Treatment of Chytridiomycosis and Their Impacts on Innate Skin Defenses. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4034-4041.	3.1	22
54	Inhibition of Local Immune Responses by the Frog-Killing Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Infection and Immunity</i> , 2014, 82, 4698-4706.	2.2	54

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56	Immunomodulation in Post-metamorphic Northern Leopard Frogs, <i>Lithobates pipiens</i> , Following Larval Exposure to Polybrominated Diphenyl Ether. <i>Environmental Science & Technology</i> , 2014, 48, 5910-5919.	10.0	21
57	Genomic Studies of Disease-Outcome in Host-Pathogen Dynamics. <i>Integrative and Comparative Biology</i> , 2014, 54, 427-438.	2.0	18
58	Naturally Occurring Peptides from <i>Rana temporaria</i> : Antimicrobial Properties and More. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 54-64.	2.1	60
59	The Frog Skin-Derived Antimicrobial Peptide Esculentin-1a(1-21)NH ₂ Promotes the Migration of Human HaCaT Keratinocytes in an EGF Receptor-Dependent Manner: A Novel Promoter of Human Skin Wound Healing?. <i>PLoS ONE</i> , 2015, 10, e0128663.	2.5	76
60	Effects of Pesticide Mixtures on Host-Pathogen Dynamics of the Amphibian Chytrid Fungus. <i>PLoS ONE</i> , 2015, 10, e0132832.	2.5	30
62	Skin bacteria provide early protection for newly metamorphosed southern leopard frogs (<i>Rana</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 50 Conservation, 2015, 187, 91-102.	4.1	54
63	Microbiota and Mucosal Immunity in Amphibians. <i>Frontiers in Immunology</i> , 2015, 6, 111.	4.8	128
64	Comparative Phylogeny of the Mucosa-Associated Lymphoid Tissue. , 2015, , 145-159.		6
65	Cutaneous Bacterial Species from <i>Lithobates catesbeianus</i> can Inhibit Pathogenic Dermatophytes. <i>Mycopathologia</i> , 2015, 179, 259-268.	3.1	6
66	Characterization of the Carbohydrate Binding Module 18 gene family in the amphibian pathogen <i>Batrachochytrium dendrobatidis</i> . <i>Fungal Genetics and Biology</i> , 2015, 77, 31-39.	2.1	25
67	Carotenoids and amphibians: effects on life history and susceptibility to the infectious pathogen, <i>Batrachochytrium dendrobatidis</i> . , 2015, 3, cov005.		13
68	Susceptibility of amphibians to chytridiomycosis is associated with MHC class II conformation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20143127.	2.6	114
69	Immunomodulatory Metabolites Released by the Frog-Killing Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Infection and Immunity</i> , 2015, 83, 4565-4570.	2.2	39
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71	Amphibian chytridiomycosis: a review with focus on fungus-host interactions. <i>Veterinary Research</i> , 2015, 46, 137.	3.0	158
72	Development of antimicrobial peptide defenses of southern leopard frogs, <i>Rana sphenoccephala</i> , against the pathogenic chytrid fungus, <i>Batrachochytrium dendrobatidis</i> . <i>Developmental and Comparative Immunology</i> , 2015, 48, 65-75.	2.3	52
73	Using Omics and Integrated Multi-Omics Approaches to Guide Probiotic Selection to Mitigate Chytridiomycosis and Other Emerging Infectious Diseases. <i>Frontiers in Microbiology</i> , 2016, 7, 68.	3.5	135

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74	Host and parasite thermal acclimation responses depend on the stage of infection. <i>Journal of Animal Ecology</i> , 2016, 85, 1014-1024.	2.8	24
75	Susceptibility to disease varies with ontogeny and immunocompetence in a threatened amphibian. <i>Oecologia</i> , 2016, 181, 997-1009.	2.0	31
76	Role of Antimicrobial Peptides in Amphibian Defense Against Trematode Infection. <i>EcoHealth</i> , 2016, 13, 383-391.	2.0	17
77	Seasonality, Environmental Factors, and Host Behavior Linked to Disease Risk in Stream-Dwelling Tadpoles. <i>Herpetologica</i> , 2016, 72, 98-106.	0.4	20
78	Invasive North American bullfrogs transmit lethal fungus <i>Batrachochytrium dendrobatidis</i> infections to native amphibian host species. <i>Biological Invasions</i> , 2016, 18, 2299-2308.	2.4	35
79	Life history linked to immune investment in developing amphibians. , 2016, 4, cow025.		28
80	Comparative study of host response to chytridiomycosis in a susceptible and a resistant toad species. <i>Molecular Ecology</i> , 2016, 25, 5663-5679.	3.9	31
81	Large-scale recovery of an endangered amphibian despite ongoing exposure to multiple stressors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11889-11894.	7.1	129
82	Chytrid <i>Batrachochytrium dendrobatidis</i> fungal infection in freshwater prawn, <i>Macrobrachium rosenbergii</i> (de Man) - A new report. <i>Aquaculture</i> , 2016, 464, 521-528.	3.5	5
83	<i>Xenopus laevis</i> and Emerging Amphibian Pathogens in Chile. <i>EcoHealth</i> , 2016, 13, 775-783.	2.0	30
84	Low disease-causing threshold in a frog species susceptible to chytridiomycosis. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw111.	1.8	11
85	A fast and reliable procedure for spore collection from anaerobic fungi: Application for RNA uptake and long-term storage of isolates. <i>Journal of Microbiological Methods</i> , 2016, 127, 206-213.	1.6	33
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88	Mountain Yellow-legged Frogs (<i>Rana muscosa</i>) did not Produce Detectable Antibodies in Immunization Experiments with <i>Batrachochytrium dendrobatidis</i> . <i>Journal of Wildlife Diseases</i> , 2016, 52, 154-158.	0.8	9
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93	Using stochastic epidemiological models to evaluate conservation strategies for endangered amphibians. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170480.	3.4	13
94	Limited polymorphism of the functional MHC class II B gene in the black-spotted frog (<i>Pelophylax nigromaculatus</i>) identified by locus-specific genotyping. <i>Ecology and Evolution</i> , 2017, 7, 9860-9868.	1.9	7
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96	Low resistance to chytridiomycosis in direct-developing amphibians. <i>Scientific Reports</i> , 2017, 7, 16605.	3.3	43
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99	Major histocompatibility complex variation and the evolution of resistance to amphibian chytridiomycosis. <i>Immunogenetics</i> , 2017, 69, 529-536.	2.4	34
100	Precision wildlife medicine: applications of the human-centred precision medicine revolution to species conservation. <i>Global Change Biology</i> , 2017, 23, 1792-1805.	9.5	32
101	Rapid extirpation of a North American frog coincides with an increase in fungal pathogen prevalence: Historical analysis and implications for reintroduction. <i>Ecology and Evolution</i> , 2017, 7, 10216-10232.	1.9	37
102	Natural history and conservation of the rediscovered Hula painted frog, <i>Latonia nigriventer</i> . <i>Contributions To Zoology</i> , 2017, 86, 11-37.	0.5	16
103	Characterization of <i>Batrachochytrium dendrobatidis</i> Inhibiting Bacteria from Amphibian Populations in Costa Rica. <i>Frontiers in Microbiology</i> , 2017, 8, 290.	3.5	42
104	Resistance to the crayfish plague, <i>Aphanomyces astaci</i> (Oomycota) in the endangered freshwater crayfish species, <i>Austropotamobius pallipes</i> . <i>PLoS ONE</i> , 2017, 12, e0181226.	2.5	34
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106	Gene expression differs in susceptible and resistant amphibians exposed to <i>Batrachochytrium dendrobatidis</i> . <i>Royal Society Open Science</i> , 2018, 5, 170910.	2.4	37
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108	Do host-associated gut microbiota mediate the effect of an herbicide on disease risk in frogs?. <i>Journal of Animal Ecology</i> , 2018, 87, 489-499.	2.8	45
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111	Enzootic frog pathogen <i>Batrachochytrium dendrobatidis</i> in Asian tropics reveals high ITS haplotype diversity and low prevalence. <i>Scientific Reports</i> , 2018, 8, 10125.	3.3	14
112	Effects of Emerging Infectious Diseases on Amphibians: A Review of Experimental Studies. <i>Diversity</i> , 2018, 10, 81.	1.7	39
113	Emerging and Epizootic Fungal Infections in Animals. , 2018, , .		20
114	Chytridiomycosis. , 2018, , 309-335.		3
115	Effects of hydroperiod on growth, development, survival and immune defences in a temperate amphibian. <i>Functional Ecology</i> , 2019, 33, 1952-1961.	3.6	25
116	Mitigating Disease Impacts in Amphibian Populations: Capitalizing on the Thermal Optimum Mismatch Between a Pathogen and Its Host. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	24
117	In vitro modeling of <i>Batrachochytrium dendrobatidis</i> infection of the amphibian skin. <i>PLoS ONE</i> , 2019, 14, e0225224.	2.5	5
118	Immunoglobulin (Ig) heavy chain gene locus and immune responses upon parasitic, bacterial and fungal infection in loach, <i>Misgurnus anguillicaudatus</i> . <i>Fish and Shellfish Immunology</i> , 2019, 86, 1139-1150.	3.6	20
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120	Out in the cold and sick: Low temperatures and fungal infections impair a frog's skin defenses. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	16
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122	Bullfrog farms release virulent zoospores of the frog-killing fungus into the natural environment. <i>Scientific Reports</i> , 2019, 9, 13422.	3.3	27
123	Frog Skin Innate Immune Defences: Sensing and Surviving Pathogens. <i>Frontiers in Immunology</i> , 2018, 9, 3128.	4.8	113
124	Interaction between temperature and sublethal infection with the amphibian chytrid fungus impacts a susceptible frog species. <i>Scientific Reports</i> , 2019, 9, 83.	3.3	18
125	Peptides for Skin Protection and Healing in Amphibians. <i>Molecules</i> , 2019, 24, 347.	3.8	49
126	The amphibian-killing fungus in a biodiversity hotspot: identifying and validating high-risk areas and refugia. <i>Ecosphere</i> , 2019, 10, e02724.	2.2	12
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131	Lymphocyte Deficiency Induced by Sublethal Irradiation in <i>Xenopus</i> . Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097626.	0.3	3
132	Assessing Antibody Responses to Pathogens or Model Antigens in <i>Xenopus</i> by Enzyme-Linked Immunosorbent Assay (ELISA). Cold Spring Harbor Protocols, 2019, 2019, pdb.prot099234.	0.3	1
133	Variation in the Slimy Salamander (<i>Plethodon</i> spp.) Skin and Gut-Microbial Assemblages Is Explained by Geographic Distance and Host Affinity. Microbial Ecology, 2020, 79, 985-997.	2.8	10
134	The amphibian complement system and chytridiomycosis. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 706-719.	1.9	21
135	Review: Examining the Natural Role of Amphibian Antimicrobial Peptide Magainin. Molecules, 2020, 25, 5436.	3.8	27
136	Sustained immune activation is associated with susceptibility to the amphibian chytrid fungus. Molecular Ecology, 2020, 29, 2889-2903.	3.9	24
137	Exploring the relationships between amphibian (<i>Xenopus laevis</i>) myeloid cell subsets. Developmental and Comparative Immunology, 2020, 113, 103798.	2.3	8
138	Immunological Aspects of Chytridiomycosis. Journal of Fungi (Basel, Switzerland), 2020, 6, 234.	3.5	20
139	Frog Skin Microbiota Vary With Host Species and Environment but Not Chytrid Infection. Frontiers in Microbiology, 2020, 11, 1330.	3.5	17
140	<i>Batrachochytrium salamandrivorans</i> elicits acute stress response in spotted salamanders but not infection or mortality. Animal Conservation, 2020, 23, 533-546.	2.9	15
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