

Environmental DNA for improved detection and environmental monitoring of schistosomiasis

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Analysis of Environmental DNA and Edaphic Factors for the Detection of the Snail Intermediate Host <i>Oncomelania hupensis quadrasi</i> . <i>Pathogens</i> , 2019, 8, 160.	1.2	11
2	To improve ecological understanding, collect infection data. <i>Ecosphere</i> , 2019, 10, e02770.	1.0	5
3	The future is now: New United Nations™ Sustainable Development Goals report provides a perspective on vector-borne diseases. <i>Geospatial Health</i> , 2019, 14, .	0.3	1
4	Population-level inferences from environmental DNA” Current status and future perspectives. <i>Evolutionary Applications</i> , 2020, 13, 245-262.	1.5	105
5	Recent advances in nucleic acid-based methods for detection of helminth infections and the perspective of biosensors for future development. <i>Parasitology</i> , 2020, 147, 383-392.	0.7	11
8	Species. , 2020, , 47-113.		0
9	Populations. , 2020, , 114-224.		0
10	Waterborne Disease. , 2020, , 225-339.		0
11	Afterthoughts and Outlook. , 2020, , 340-361.		0
14	Sensitive diagnostic tools and targeted drug administration strategies are needed to eliminate schistosomiasis. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e165-e172.	4.6	27
15	A comparison of European eel <i>Anguilla anguilla</i> eDNA concentrations to fyke net catches in five Irish lakes. <i>Environmental DNA</i> , 2020, 2, 587-600.	3.1	19
16	Piloting an integrated approach for estimation of environmental risk of <i>Schistosoma haematobium</i> infections in pre-school-aged children and their mothers at Barombi Kotto, Cameroon. <i>Acta Tropica</i> , 2020, 212, 105646.	0.9	2
17	Towards a more healthy conservation paradigm: integrating disease and molecular ecology to aid biological conservation. <i>Journal of Genetics</i> , 2020, 99, 1.	0.4	14
18	A non-lethal method for detection of <i>Bonamia ostreae</i> in flat oyster (<i>Ostrea edulis</i>) using environmental DNA. <i>Scientific Reports</i> , 2020, 10, 16143.	1.6	11
19	Intestinal Schistosomiasis and Giardiasis Co-Infection in Sub-Saharan Africa: Can a One Health Approach Improve Control of Each Waterborne Parasite Simultaneously?. <i>Tropical Medicine and Infectious Disease</i> , 2020, 5, 137.	0.9	9
20	Assessing the diversity and distribution of potential intermediate hosts snails for urogenital schistosomiasis: <i>Bulinus</i> spp. (Gastropoda: Planorbidae) of Lake Victoria. <i>Parasites and Vectors</i> , 2020, 13, 418.	1.0	9
21	<i>Schistosoma</i> species detection by environmental DNA assays in African freshwaters. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008129.	1.3	18
22	msoc: Fit and analyse computationally efficient multi-scale occupancy models in <i>scpr</i> . <i>Methods in Ecology and Evolution</i> , 2020, 11, 1113-1120.	2.2	11

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23	Environmental DNA for detecting <i>Bulinus truncatus</i> : A new environmental surveillance tool for schistosomiasis emergence risk assessment. <i>Environmental DNA</i> , 2020, 2, 161-174.	3.1	14
24	Detection of spatiotemporal variation in ranavirus distribution using eDNA. <i>Environmental DNA</i> , 2020, 2, 210-220.	3.1	19
25	Advances and prospects of environmental DNA in neotropical rainforests. <i>Advances in Ecological Research</i> , 2020, , 331-373.	1.4	27
26	Environmental DNA-based xenomonitoring for determining <i>Schistosoma</i> presence in tropical freshwaters. <i>Parasites and Vectors</i> , 2020, 13, 63.	1.0	15
27	Applications of environmental DNA (eDNA) in ecology and conservation: opportunities, challenges and prospects. <i>Biodiversity and Conservation</i> , 2020, 29, 2089-2121.	1.2	225
28	Monitoring schistosomiasis and sanitation interventions—The potential of environmental DNA. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1491.	2.8	2
29	How to design optimal eDNA sampling strategies for biomonitoring in river networks. <i>Environmental DNA</i> , 2021, 3, 157-172.	3.1	40
30	Avian schistosome species in Danish freshwater lakes: relation to biotic and abiotic factors. <i>Journal of Helminthology</i> , 2021, 95, e22.	0.4	6
31	Detecting and identifying <i>Schistosoma</i> infections in snails and aquatic habitats: A systematic review. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009175.	1.3	16
32	Complex interactions between environmental DNA (eDNA) state and water chemistries on eDNA persistence suggested by meta-analyses. <i>Molecular Ecology Resources</i> , 2021, 21, 1490-1503.	2.2	51
33	A Model and Simulation of the Influence of Temperature and Amplicon Length on Environmental DNA Degradation Rates: A Meta-Analysis Approach. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	26
34	Challenges and Opportunities Presented by Current Techniques for Detecting Schistosome Infections in Intermediate Host Snails: A Scoping Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5403.	1.2	4
35	Temporal dynamics of trematode intermediate snail host environmental DNA in small water body habitats. <i>Parasitology</i> , 2021, 148, 1490-1496.	0.7	5
36	Utility of environmental DNA analysis for effective monitoring of invasive fish species in reservoirs. <i>Ecosphere</i> , 2021, 12, e03643.	1.0	12
37	Mining Public Metagenomes for Environmental Surveillance of Parasites: A Proof of Principle. <i>Frontiers in Microbiology</i> , 2021, 12, 622356.	1.5	5
38	Urine DNA (uDNA) as a non-lethal method for endoparasite biomonitoring: Development and validation. <i>Environmental DNA</i> , 2021, 3, 1035-1045.	3.1	5
39	Linking the state of environmental DNA to its application for biomonitoring and stock assessment: Targeting mitochondrial/nuclear genes, and different DNA fragment lengths and particle sizes. <i>Environmental DNA</i> , 2022, 4, 271-283.	3.1	46
40	Pathogens and disease vectors/hosts monitoring in aquatic environments: Potential of using eDNA/eRNA based approach. <i>Science of the Total Environment</i> , 2021, 796, 148810.	3.9	25

#	ARTICLE	IF	CITATIONS
41	Identifying Under-ice Overwintering Locations of Juvenile Chinook Salmon by Using Environmental DNA. North American Journal of Fisheries Management, 2020, 40, 762-772.	0.5	5
45	Modelling how resource competition among snail hosts affects the mollusciciding frequency and intensity needed to control human schistosomes. Functional Ecology, 2020, 34, 1678-1689.	1.7	4
46	Snail-Related Contributions from the Schistosomiasis Consortium for Operational Research and Evaluation Program Including Xenomonitoring, Focal Mollusciciding, Biological Control, and Modeling. American Journal of Tropical Medicine and Hygiene, 2020, 103, 66-79.	0.6	42
47	Schistosomiasis Consortium for Operational Research and Evaluation: Mission Accomplished. American Journal of Tropical Medicine and Hygiene, 2020, 103, 1-4.	0.6	3
49	Environmental DNA: history of studies, current and perspective applications in fundamental and applied research. Ecological Genetics, 2020, 18, 493-509.	0.1	1
50	Schistosoma mansoni Vector Snails in Antigua and Montserrat, with Snail-Related Considerations Pertinent to a Declaration of Elimination of Human Schistosomiasis. American Journal of Tropical Medicine and Hygiene, 2020, 103, 2268-2277.	0.6	7
51	Quantitative PCR assays to detect whales, rockfish, and common murre environmental DNA in marine water samples of the Northeastern Pacific. PLoS ONE, 2020, 15, e0242689.	1.1	6
52	Validation of an eDNA-based method for the detection of wildlife pathogens in water. Diseases of Aquatic Organisms, 2020, 141, 171-184.	0.5	20
53	Seasonal monitoring of Hida salamander Hynobius kimurae using environmental DNA with a genus-specific primer set. Endangered Species Research, 2020, 43, 341-352.	1.2	10
54	Effect of biotic and abiotic factors on the production and degradation of fish environmental DNA: An experimental evaluation. Environmental DNA, 2022, 4, 453-468.	3.1	19
55	Environmental DNA Advancing Our Understanding and Conservation of Inland Waters. , 2022, , 685-698.		3
56	How to study parasites and host migration: a roadmap for empiricists. Biological Reviews, 2022, 97, 1161-1178.	4.7	6
57	Make visible the invisible: Optimized development of an environmental DNA metabarcoding tool for the characterization of trematode parasitic communities. Environmental DNA, 2022, 4, 627-641.	3.1	12
59	Short-term temporal variation of coastal marine eDNA. Environmental DNA, 2022, 4, 747-762.	3.1	28
60	Host specificity of monogenean ectoparasites on fish skin and gills assessed by a metabarcoding approach. International Journal for Parasitology, 2022, 52, 559-567.	1.3	2
61	Detection and population genomics of sea turtle species via noninvasive environmental DNA analysis of nesting beach sand tracks and oceanic water. Molecular Ecology Resources, 2022, 22, 2471-2493.	2.2	20
62	Utilizing environmental DNA for wide-range distributions of reproductive area of an invasive terrestrial toad in Ishikari river basin in Japan. Biological Invasions, 2022, 24, 1199-1211.	1.2	6
63	Honey Environmental DNA Can Be Used to Detect and Monitor Honey Bee Pests: Development of Methods Useful to Identify Aethina tumida and Galleria mellonella Infestations. Veterinary Sciences, 2022, 9, 213.	0.6	3

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64	Simplifying Schistosome Surveillance: Using Molecular Cercariometry to Detect and Quantify Cercariae in Water. <i>Pathogens</i> , 2022, 11, 565.	1.2	5
65	Systematic review and meta-analysis: Water type and temperature affect environmental DNA decay. <i>Molecular Ecology Resources</i> , 2022, 22, 2494-2505.	2.2	19
66	Ecohydrology 2.0. <i>Rendiconti Lincei</i> , 2022, 33, 245-270.	1.0	4
67	Systematic Review and Meta-Analysis on the Infection Rates of Schistosome Transmitting Snails in Southern Africa. <i>Tropical Medicine and Infectious Disease</i> , 2022, 7, 72.	0.9	3
68	Scratching the Itch: Updated Perspectives on the Schistosomes Responsible for Swimmer's Itch around the World. <i>Pathogens</i> , 2022, 11, 587.	1.2	8
69	Environmental <scp>RNA</scp> degrades more rapidly than environmental <scp>DNA</scp> across a broad range of <scp>pH</scp> conditions. <i>Molecular Ecology Resources</i> , 2022, 22, 2640-2650.	2.2	17
71	Comparative Evaluation of Common Materials as Passive Samplers of Environmental DNA. <i>Environmental Science & Technology</i> , 2022, 56, 10798-10807.	4.6	14
72	Specific Nucleic Acid Ligation for the detection of Schistosomes: SNAILS. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010632.	1.3	1
73	Environmental DNA study on aquatic ecosystem monitoring and management: Recent advances and prospects. <i>Journal of Environmental Management</i> , 2022, 323, 116310.	3.8	8
74	Persistence and degradation dynamics of eDNA affected by environmental factors in aquatic ecosystems. <i>Hydrobiologia</i> , 2022, 849, 4119-4133.	1.0	5
75	Assessment of schistosomiasis transmission in the River Nile at Greater Cairo using malacological surveys and cercariometry. <i>Journal of Parasitic Diseases</i> , 0, , .	0.4	1
76	Seasonal Dynamics and Heavy Rain Effects on the Diversity of Microeukaryome in the Nakdonggang River. <i>Water (Switzerland)</i> , 2022, 14, 3407.	1.2	0
77	Identification of factors associated with <i>Fasciola hepatica</i> infection risk areas on pastures via an environmental <scp>DNA</scp> survey of <i>Galba truncatula</i> distribution using droplet digital and quantitative real-time <scp>PCR</scp> assays. <i>Environmental DNA</i> , 2024, 6, .	3.1	2
78	A call for more ecologically and evolutionarily relevant studies of immune costs. <i>Evolutionary Ecology</i> , 2023, 37, 203-214.	0.5	4
79	Mammalian and Avian Larval Schistosomatids in Bangladesh: Molecular Characterization, Epidemiology, Molluscan Vectors, and Occurrence of Human Cercarial Dermatitis. <i>Pathogens</i> , 2022, 11, 1213.	1.2	4
80	Multi-State Occupancy Model Estimates Probability of Detection of an Aquatic Parasite Using Environmental DNA: <i>Pseudoloma neurophilia</i> in Zebrafish Aquaria. <i>Journal of Parasitology</i> , 2022, 108, .	0.3	1
81	Environmental DNA in human and veterinary parasitology - Current applications and future prospects for monitoring and control. <i>Food and Waterborne Parasitology</i> , 2022, 29, e00183.	1.1	4
82	Detection of Fish Pathogens in Freshwater Aquaculture Using eDNA Methods. <i>Diversity</i> , 2022, 14, 1015.	0.7	3

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83	DNA Barcoding of <i>Trichobilharzia</i> (Trematoda: Schistosomatidae) Species and Their Detection in eDNA Water Samples. <i>Diversity</i> , 2023, 15, 104.	0.7	4
84	Aquatic environmental DNA: A review of the macro-organismal biomonitoring revolution. <i>Science of the Total Environment</i> , 2023, 873, 162322.	3.9	45
85	The proof is in the poo: Non-invasive method to detect endoparasitic infection. <i>Molecular Ecology Resources</i> , 0, , .	2.2	0
86	MALDI-TOF: A new tool for the identification of <i>Schistosoma cercariae</i> and detection of hybrids. <i>PLoS Neglected Tropical Diseases</i> , 2023, 17, e0010577.	1.3	3
87	Examining ecosystem (dis-)services on liver fluke infection in rural Northeast Thailand. <i>Infectious Diseases of Poverty</i> , 2023, 12, .	1.5	3
92	The long road to schistosomiasis elimination in Zanzibar: A systematic review covering 100 years of research, interventions and control milestones. <i>Advances in Parasitology</i> , 2023, , .	1.4	0