

Toshifumi Minamoto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

4,332
citations

32
h-index

63
g-index

147
ext. papers

6,181
ext. citations

3.6
avg, IF

5.93
L-index

#	Paper	IF	Citations
129	Seasonal changes in the distribution of black sea bream <i>Acanthopagrus schlegelii</i> estimated by environmental DNA. <i>Fisheries Science</i> , 2022 , 88, 91-107	1.9	
128	Autumn dispersal and limited success of reproduction of the deepbody bitterling (<i>Acheilognathus longipinnis</i>) in terrestrialized floodplain. <i>Knowledge and Management of Aquatic Ecosystems</i> , 2022 , 4	1.4	
127	Detection of multiple mycetoma pathogens using fungal metabarcoding analysis of soil DNA in an endemic area of Sudan.. <i>PLoS Neglected Tropical Diseases</i> , 2022 , 16, e0010274	4.8	0
126	Estimating fish population abundance by integrating quantitative data on environmental DNA and hydrodynamic modelling. <i>Molecular Ecology</i> , 2021 , 30, 3057-3067	5.7	8
125	Prevalence of Antimicrobial-Resistant <i>Escherichia coli</i> in Migratory Greater White-Fronted Geese (<i>Anser albifrons</i>) and their Habitat in Miyajimanuma, Japan. <i>Journal of Wildlife Diseases</i> , 2021 , 57, 954-958	1.3	1
124	STUDY ON AN ENVIRONMENTAL DNA ANALYSIS PROTOCOL FOR SEAGRASS BED MONITORING. <i>Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering)</i> , 2021 , 77, 1_895-1_900	0.1	
123	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	8.4	4
122	Compilation of real-time PCR conditions toward the standardization of environmental DNA methods. <i>Ecological Research</i> , 2021 , 36, 379-388	1.9	2
121	Spatiotemporal distribution of <i>Flavobacterium psychrophilum</i> and ayu <i>Plecoglossus altivelis</i> in rivers revealed by environmental DNA analysis. <i>Fisheries Science</i> , 2021 , 87, 321-330	1.9	0
120	Molecular detection of giant snakeheads, <i>Channa micropeltes</i> (Cuvier, 1831), one of the most troublesome fish species. <i>Scientific Reports</i> , 2021 , 11, 9943	4.9	2
119	Environmental DNA detection of an invasive ant species (<i>Linepithema humile</i>) from soil samples. <i>Scientific Reports</i> , 2021 , 11, 10712	4.9	1
118	Utility of environmental DNA analysis for effective monitoring of invasive fish species in reservoirs. <i>Ecosphere</i> , 2021 , 12, e03643	3.1	2
117	Application of environmental DNA metabarcoding in a lake with extensive algal blooms. <i>Limnology</i> , 2021 , 22, 363-370	1.7	2
116	Characterizing the spatial and temporal occurrence patterns of the endangered botiid loach <i>Parabotia curtus</i> by environmental DNA analysis using a newly developed species-specific primer set. <i>Ichthyological Research</i> , 2021 , 68, 152-157	0.8	2
115	Broad-scale detection of environmental DNA for an invasive macrophyte and the relationship between DNA concentration and coverage in rivers. <i>Biological Invasions</i> , 2021 , 23, 507-520	2.7	4
114	Determining an effective sampling method for eDNA metabarcoding: a case study for fish biodiversity monitoring in a small, natural river. <i>Limnology</i> , 2021 , 22, 221-235	1.7	12
113	Messenger RNA typing of environmental RNA (eRNA): A case study on zebrafish tank water with perspectives for the future development of eRNA analysis on aquatic vertebrates. <i>Environmental DNA</i> , 2021 , 3, 14-21	7.6	12

112	An illustrated manual for environmental DNA research: Water sampling guidelines and experimental protocols. <i>Environmental DNA</i> , 2021 , 3, 8-13	7.6	26
111	Revealing an Invasion Risk of Fish Species in Qingdao Underwater World by Environmental DNA Metabarcoding. <i>Journal of Ocean University of China</i> , 2021 , 20, 124-136	1	0
110	eDNA-based detection of a vulnerable crocodile newt (<i>Tylototriton uyenoi</i>) to influence government policy and raise public awareness. <i>Diversity and Distributions</i> , 2021 , 27, 1958-1965	5	2
109	Simultaneous absolute quantification and sequencing of fish environmental DNA in a mesocosm by quantitative sequencing technique. <i>Scientific Reports</i> , 2021 , 11, 4372	4.9	4
108	Continuous prevalence of VEB-3 extended-spectrum β -lactamase-producing <i>Aeromonas hydrophila</i> in a local river in gifu city, Japan. <i>Microbiology and Immunology</i> , 2021 , 65, 99-100	2.7	1
107	Environmental DNA preserved in marine sediment for detecting jellyfish blooms after a tsunami. <i>Scientific Reports</i> , 2021 , 11, 16830	4.9	0
106	Effects of sampling seasons and locations on fish environmental DNA metabarcoding in dam reservoirs. <i>Ecology and Evolution</i> , 2020 , 10, 5354-5367	2.8	13
105	Detection of herbivory: eDNA detection from feeding marks on leaves. <i>Environmental DNA</i> , 2020 , 2, 627-634	6.8	1
104	Selective collection of long fragments of environmental DNA using larger pore size filter. <i>Science of the Total Environment</i> , 2020 , 735, 139462	10.2	3
103	Sedimentary eDNA provides different information on timescale and fish species composition compared with aqueous eDNA. <i>Environmental DNA</i> , 2020 , 2, 505-518	7.6	27
102	Comparing the efficiency of open and enclosed filtration systems in environmental DNA quantification for fish and jellyfish. <i>PLoS ONE</i> , 2020 , 15, e0231718	3.7	10
101	Estimations of Riverine Distribution, Abundance, and Biomass of Anguillid Eels in Japan and Taiwan Using Environmental DNA Analysis. <i>Zoological Studies</i> , 2020 , 59, e17	0.6	6
100	Environmental DNA revealed the fish community of Hokkaido Island, Japan, after invasion by rainbow trout. <i>Biodiversity Data Journal</i> , 2020 , 8, e56876	1.8	3
99	A molecular survey based on eDNA to assess the presence of a clown featherback () in a confined environment. <i>PeerJ</i> , 2020 , 8, e10338	3.1	3
98	Projection range of eDNA analysis in marshes: a suggestion from the Siberian salamander () inhabiting the Kushiro marsh, Japan. <i>PeerJ</i> , 2020 , 8, e9764	3.1	1
97	SEASONAL CHANGES IN ENVIRONMENTAL DNA IN SEAGRASS BEDS AND EXAMINATION OF WATER SAMPLING PROCEDURE. <i>Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering)</i> , 2020 , 76, 1_943-1_948	0.1	
96	Evaluating intraspecific genetic diversity using environmental DNA and denoising approach: A case study using tank water. <i>Environmental DNA</i> , 2020 , 2, 42-52	7.6	26
95	Environmental DNA monitoring for short-term reproductive migration of endemic anadromous species, Shishamo smelt (<i>Spirinchus lanceolatus</i>). <i>Environmental DNA</i> , 2020 , 2, 130-139	7.6	9

94	Estimating shedding and decay rates of environmental nuclear DNA with relation to water temperature and biomass. <i>Environmental DNA</i> , 2020 , 2, 140-151	7.6	17
93	Suppression of environmental DNA degradation in water samples associated with different storage temperature and period using benzalkonium chloride. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 437-445	2.6	5
92	Sedimentary DNA tracks decadal-centennial changes in fish abundance. <i>Communications Biology</i> , 2020 , 3, 558	6.7	10
91	Multiplex real-time PCR enables the simultaneous detection of environmental DNA from freshwater fishes: a case study of three exotic and three threatened native fishes in Japan. <i>Biological Invasions</i> , 2020 , 22, 455-471	2.7	8
90	Environmental DNA analysis shows high potential as a tool for estimating intraspecific genetic diversity in a wild fish population. <i>Molecular Ecology Resources</i> , 2020 , 20, 1248-1258	8.4	11
89	Effect of water temperature and fish biomass on environmental DNA shedding, degradation, and size distribution. <i>Ecology and Evolution</i> , 2019 , 9, 1135-1146	2.8	76
88	Habitat selection and migration of the common shrimp, <i>Palaemon paucidens</i> in Lake Biwa, Japan. An eDNA-based study. <i>Environmental DNA</i> , 2019 , 1, 54-63	7.6	6
87	The life history with seasonal migration of the lacustrine shrimp <i>Palaemon paucidens</i> in an ancient lake in Japan. <i>Ecosphere</i> , 2019 , 10, e02628	3.1	3
86	Environmental DNA metabarcoding to detect pathogenic <i>Leptospira</i> and associated organisms in leptospirosis-endemic areas of Japan. <i>Scientific Reports</i> , 2019 , 9, 6575	4.9	18
85	Seasonal change in environmental DNA concentration of a submerged aquatic plant species. <i>Freshwater Science</i> , 2019 , 38, 654-660	2	4
84	Biomass-dependent emission of environmental DNA in jack mackerel <i>Trachurus japonicus</i> juveniles. <i>Journal of Fish Biology</i> , 2019 , 95, 979-981	1.9	10
83	Particle Size Distribution of Environmental DNA from the Nuclei of Marine Fish. <i>Environmental Science & Technology</i> , 2019 , 53, 9947-9956	10.3	15
82	Discovery of an unrecorded population of Yamato salamander (<i>Hynobius vandenburghi</i>) by GIS and eDNA analysis. <i>Environmental DNA</i> , 2019 , 1, 281-289	7.6	8
81	Analysis of Environmental DNA and Edaphic Factors for the Detection of the Snail Intermediate Host. <i>Pathogens</i> , 2019 , 8,	4.5	5
80	First use of oceanic environmental DNA to study the spawning ecology of the Japanese eel <i>Anguilla japonica</i> . <i>Marine Ecology - Progress Series</i> , 2019 , 609, 187-196	2.6	15
79	Environmental DNA detection and quantification of invasive red-eared sliders, , in ponds and the influence of water quality. <i>PeerJ</i> , 2019 , 7, e8155	3.1	7
78	STUDY ON SEASONAL, DAILY AND MORPHOLOGICAL CHANGE OF ENVIRONMENTAL DNA FOR SEAGRASS BED. <i>Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering)</i> , 2019 , 75, I_1075-I_1080 ¹	0.1	1
77	Environmental DNA analysis reveals the spatial distribution, abundance, and biomass of Japanese eels at the river-basin scale. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019 , 29, 361-373	2.6	32

76	Using environmental DNA to estimate the seasonal distribution and habitat preferences of a Japanese basket clam in Lake Shinji, Japan. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 221, 15-20	2.9	11
75	Comparison of inhibition resistance among PCR reagents for detection and quantification of environmental DNA. <i>Environmental DNA</i> , 2019 , 1, 359-367	7.6	12
74	Detection of <i>Schistosoma japonicum</i> and <i>Oncomelania hupensis quadrasi</i> environmental DNA and its potential utility to schistosomiasis japonica surveillance in the Philippines. <i>PLoS ONE</i> , 2019 , 14, e0224617	2.7	11
73	Dispersion and degradation of environmental DNA from caged fish in a marine environment. <i>Fisheries Science</i> , 2019 , 85, 327-337	1.9	46
72	Real-time polymerase chain reaction assays for environmental DNA detection of three salmonid fish in Hokkaido, Japan: Application to winter surveys. <i>Ecological Research</i> , 2019 , 34, 237-242	1.9	18
71	Comparing local- and regional-scale estimations of the diversity of stream fish using eDNA metabarcoding and conventional observation methods. <i>Freshwater Biology</i> , 2018 , 63, 569-580	3.1	45
70	Environmental DNA reveals nonmigratory individuals of <i>Palaemon paucidens</i> overwintering in Lake Biwa shallow waters. <i>Freshwater Science</i> , 2018 , 37, 307-314	2	13
69	Usefulness of environmental DNA for detecting <i>Schistosoma mansoni</i> occurrence sites in Madagascar. <i>International Journal of Infectious Diseases</i> , 2018 , 76, 130-136	10.5	20
68	Effects of water pH and proteinase K treatment on the yield of environmental DNA from water samples. <i>Limnology</i> , 2017 , 18, 1-7	1.7	25
67	Application of environmental DNA analysis for the detection of <i>Opisthorchis viverrini</i> DNA in water samples. <i>Acta Tropica</i> , 2017 , 169, 1-7	3.2	22
66	Environmental DNA metabarcoding reveals local fish communities in a species-rich coastal sea. <i>Scientific Reports</i> , 2017 , 7, 40368	4.9	203
65	Isopropanol precipitation method for collecting fish environmental DNA. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 212-218	2.6	13
64	Rapid degradation of longer DNA fragments enables the improved estimation of distribution and biomass using environmental DNA. <i>Molecular Ecology Resources</i> , 2017 , 17, e25-e33	8.4	73
63	A simple method for preserving environmental DNA in water samples at ambient temperature by addition of cationic surfactant. <i>Limnology</i> , 2017 , 18, 233-241	1.7	78
62	Water sampling for environmental DNA surveys by using an unmanned aerial vehicle. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 939-944	2.6	21
61	Environmental DNA method for estimating salamander distribution in headwater streams, and a comparison of water sampling methods. <i>PLoS ONE</i> , 2017 , 12, e0176541	3.7	37
60	Water temperature-dependent degradation of environmental DNA and its relation to bacterial abundance. <i>PLoS ONE</i> , 2017 , 12, e0176608	3.7	87
59	Identifying a breeding habitat of a critically endangered fish, <i>Acheilognathus typus</i> , in a natural river in Japan. <i>Die Naturwissenschaften</i> , 2017 , 104, 100	2	16

58	Distinct seasonal migration patterns of Japanese native and non-native genotypes of common carp estimated by environmental DNA. <i>Ecology and Evolution</i> , 2017 , 7, 8515-8522	2.8	18
57	Effect of different personal histories on valuation for forest ecosystem services in urban areas: A case study of Mt. Rokko, Kobe, Japan. <i>Urban Forestry and Urban Greening</i> , 2017 , 28, 110-117	5.4	8
56	Nuclear internal transcribed spacer-1 as a sensitive genetic marker for environmental DNA studies in common carp <i>Cyprinus carpio</i> . <i>Molecular Ecology Resources</i> , 2017 , 17, 324-333	8.4	32
55	Environmental DNA analysis for estimating the abundance and biomass of stream fish. <i>Freshwater Biology</i> , 2017 , 62, 30-39	3.1	179
54	Random Mutagenesis by Error-Prone Polymerase Chain Reaction Using a Heavy Water Solvent. <i>Methods in Molecular Biology</i> , 2017 , 1498, 491-495	1.4	1
53	Environmental DNA reflects spatial and temporal jellyfish distribution. <i>PLoS ONE</i> , 2017 , 12, e0173073	3.7	56
52	Use of environmental DNA to survey the distribution of an invasive submerged plant in ponds. <i>Freshwater Science</i> , 2016 , 35, 748-754	2	40
51	Use of a Filter Cartridge for Filtration of Water Samples and Extraction of Environmental DNA. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	25
50	A novel environmental DNA approach to quantify the cryptic invasion of non-native genotypes. <i>Molecular Ecology Resources</i> , 2016 , 16, 415-22	8.4	88
49	Techniques for the practical collection of environmental DNA: filter selection, preservation, and extraction. <i>Limnology</i> , 2016 , 17, 23-32	1.7	64
48	The use of environmental DNA of fishes as an efficient method of determining habitat connectivity. <i>Ecological Indicators</i> , 2016 , 62, 147-153	5.8	83
47	Environmental DNA as a Snapshot of Fish Distribution: A Case Study of Japanese Jack Mackerel in Maizuru Bay, Sea of Japan. <i>PLoS ONE</i> , 2016 , 11, e0149786	3.7	121
46	Evaluation of the Environmental DNA Method for Estimating Distribution and Biomass of Submerged Aquatic Plants. <i>PLoS ONE</i> , 2016 , 11, e0156217	3.7	25
45	On-site filtration of water samples for environmental DNA analysis to avoid DNA degradation during transportation. <i>Ecological Research</i> , 2016 , 31, 963-967	1.9	28
44	MiFish, a set of universal PCR primers for metabarcoding environmental DNA from fishes: detection of more than 230 subtropical marine species. <i>Royal Society Open Science</i> , 2015 , 2, 150088	3.3	395
43	Monitoring fish pathogenic viruses in natural lakes in Yunnan, China. <i>Limnology</i> , 2015 , 16, 69-77	1.7	5
42	Droplet digital polymerase chain reaction (PCR) outperforms real-time PCR in the detection of environmental DNA from an invasive fish species. <i>Environmental Science & Technology</i> , 2015 , 49, 5601-8	10.3	126
41	Detection of periodic patterns in microarray data reveals novel oscillating transcripts of biological rhythms in <i>Ciona intestinalis</i> . <i>Artificial Life and Robotics</i> , 2015 , 20, 347-352	0.6	

40	A basin-scale application of environmental DNA assessment for rare endemic species and closely related exotic species in rivers: a case study of giant salamanders in Japan. <i>Journal of Applied Ecology</i> , 2015 , 52, 358-365	5.8	128
39	Effects of sample processing on the detection rate of environmental DNA from the Common Carp (<i>Cyprinus carpio</i>). <i>Biological Conservation</i> , 2015 , 183, 64-69	6.2	53
38	Use of droplet digital PCR for estimation of fish abundance and biomass in environmental DNA surveys. <i>PLoS ONE</i> , 2015 , 10, e0122763	3.7	165
37	Effects of daily temperature fluctuation on the survival of carp infected with Cyprinid herpesvirus 3. <i>Aquaculture</i> , 2014 , 433, 208-213	4.4	10
36	The release rate of environmental DNA from juvenile and adult fish. <i>PLoS ONE</i> , 2014 , 9, e114639	3.7	177
35	Seasonal reactivation enables Cyprinid herpesvirus 3 to persist in a wild host population. <i>FEMS Microbiology Ecology</i> , 2014 , 87, 536-42	4.3	20
34	Differences between domesticated Eurasian and Japanese indigenous strains of the common carp (<i>Cyprinus carpio</i>) in cortisol release following acute stress. <i>Ichthyological Research</i> , 2014 , 61, 165-168	0.8	5
33	An emerging infectious pathogen endangers an ancient lineage of common carp by acting synergistically with conspecific exotic strains. <i>Animal Conservation</i> , 2013 , 16, 324-330	3.2	13
32	Using environmental DNA to estimate the distribution of an invasive fish species in ponds. <i>PLoS ONE</i> , 2013 , 8, e56584	3.7	253
31	Reservoirs of Cyprinid herpesvirus 3 (CyHV-3) DNA in sediments of natural lakes and ponds. <i>Veterinary Microbiology</i> , 2012 , 155, 183-90	3.3	19
30	A new method for random mutagenesis by error-prone polymerase chain reaction using heavy water. <i>Journal of Biotechnology</i> , 2012 , 157, 71-4	3.7	13
29	Nationwide Cyprinid herpesvirus 3 contamination in natural rivers of Japan. <i>Research in Veterinary Science</i> , 2012 , 93, 508-14	2.5	21
28	Spatial-temporal analysis of water temperatures during spring in Lake Erhai, China: implications for fisheries. <i>Inland Waters</i> , 2012 , 2, 129-136	2.4	1
27	Surveillance of fish species composition using environmental DNA. <i>Limnology</i> , 2012 , 13, 193-197	1.7	150
26	Expression of spliced variants of period mRNA in the Japanese honeybee <i>Apis cerana japonica</i> . <i>Biological Rhythm Research</i> , 2012 , 43, 125-135	0.8	1
25	Estimation of fish biomass using environmental DNA. <i>PLoS ONE</i> , 2012 , 7, e35868	3.7	441
24	Detection of cyprinid herpesvirus-3 DNA in lake plankton. <i>Research in Veterinary Science</i> , 2011 , 90, 530-22.5		34
23	Transmission dynamics of an emerging infectious disease in wildlife through host reproductive cycles. <i>ISME Journal</i> , 2011 , 5, 244-51	11.9	34

22	Stress response to daily temperature fluctuations in common carp, <i>Cyprinus carpio</i> L.. <i>Hydrobiologia</i> , 2011 , 675, 65-73	2.4	17
21	Environment-human linkage as a model for environmental diseases. <i>Ecological Research</i> , 2011 , 26, 1011-1016	1.9	0
20	Circadian clock in <i>Ciona intestinalis</i> revealed by microarray analysis and oxygen consumption. <i>Journal of Biochemistry</i> , 2010 , 147, 175-84	3.1	14
19	Quantification of cyprinid herpesvirus 3 in environmental water by using an external standard virus. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 161-8	4.8	35
18	<i>Apis cerana japonica</i> discriminates between floral color phases of the oriental orchid, <i>Cymbidium floribundum</i> . <i>Zoological Science</i> , 2010 , 27, 901-6	0.8	6
17	Spatial variation and temporal stability of littoral water temperature relative to lakeshore morphometry: environmental analysis from the view of fish thermal ecology. <i>Limnology</i> , 2010 , 11, 71-76	1.7	7
16	Seasonal distribution of cyprinid herpesvirus 3 in Lake Biwa, Japan. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 6900-4	4.8	25
15	Detection of cyprinid herpesvirus 3 DNA in river water during and after an outbreak. <i>Veterinary Microbiology</i> , 2009 , 135, 261-6	3.3	44
14	Molecular cloning of cone opsin genes and their expression in the retina of a smelt, Ayu (<i>Plecoglossus altivelis</i> , Teleostei). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005 , 140, 197-205	2.3	29
13	Molecular cloning and characterization of rhodopsin in a teleost (<i>Plecoglossus altivelis</i> , Osmeridae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 134, 559-70	2.3	10
12	A novel isoform of vertebrate ancient opsin in a smelt fish, <i>Plecoglossus altivelis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 280-6	3.4	36
11	Molecular cloning of lysozyme-encoding cDNAs expressed in the salivary gland of a wood-feeding termite, <i>Reticulitermes speratus</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2002 , 32, 1615-24	4.5	32
10	Cloning of genes encoding the visual pigments in the silkworm, <i>Bombyx mori</i> . <i>Applied Entomology and Zoology</i> , 1998 , 33, 199-204	1.5	3
9	Development of environmental DNA detection assays for snakes in paddy fields in Japan. <i>Landscape and Ecological Engineering</i> , 1	2	0
8	Environmental DNA emission by two carangid fishes in single and mixed-species tanks. <i>Fisheries Science</i> , 1	1.9	0
7	Quantitative monitoring of multispecies fish environmental DNA using high-throughput sequencing		19
6	Effects of species traits and ecosystem characteristics on species detection by eDNA metabarcoding in lake fish communities		1
5	Evaluating intraspecific genetic diversity of a fish population using environmental DNA: An approach to distinguish true haplotypes from erroneous sequences		2

4	Estimating fish population abundance by integrating quantitative data on environmental DNA and hydrodynamic modelling		2
3	Pre-centrifugation before DNA extraction mitigates extraction efficiency reduction of environmental DNA caused by the preservative solution (benzalkonium chloride) remaining in the filters. <i>Limnology</i> ,1	1.7	0
2	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> ,	7.6	2
1	Development of primer/probe sets for environmental DNA-based monitoring of pond smelt <i>Hypomesus nipponensis</i> and Japanese icefish <i>Salangichthys microdon</i> . <i>Landscape and Ecological Engineering</i> ,1	2	1