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MOLECULAR ECOLOGY RESOURCES PRIMER DEVELOPMENT CONSORTIUM,¹ DOUKARY ABDOULLAYE,² I. ACEVEDO,³ ABISOLA A. ADEBAYO,⁴ JASMINCA BEHRMANN-GODEL,⁵ R. C. BENJAMIN,⁶ DAN G. BOCK,⁴ CÉLINE BORN,⁷ CARINE BROUAT,⁸ ADALGISA CACCONE,⁹ LING-ZHEN CAO,¹⁰ P. CASADO-AMEZÚA,³ J. CATANÉO,¹¹ M. M. CORREA-RAMIREZ,^{12,13} MELANIA E. CRISTESCU,⁴ GAUTHIER DOBIGNY,^{8,14} EMMANUEL E. EGBOSIMBA,⁴ LIANNA K. ETCHBERGER,¹⁵ BIN FAN,¹⁶ PETER D. FIELDS,¹⁷ D. FORCIOLI,¹¹ P. FURLA,¹¹ F. J. GARCIA DE LEON,¹² R. GARCÍA-JIMÉNEZ,³ PHILIPPE GAUTHIER,⁸ RENÉ GERGS,⁵ CLEMENTINA GONZÁLEZ,^{18,19} LAURENT GRANJON,^{2,8} CARLA GUTIÉRREZ-RODRÍGUEZ,¹⁸ NATHAN P. HAVILL,²⁰ P. HELSEN,²¹ TYLER D. HETHER,²² ERIC A. HOFFMAN,²² XIANGYANG HU,²³ PÄR K. INGVARSSON,²⁴ S. ISHIZAKI,²⁵ HEYI JI,²⁶ X. S. JI,²⁷ M. L. JIMENEZ,¹³ R. KAPIL,⁶ R. KARBAN,²⁸ STEPHEN R. KELLER,¹⁷ S. KUBOTA,²⁵ SHUZHEN LI,²⁶ WANSHA LI,²³ DOUGLAS D. LIM,²⁹ HAORAN LIN,¹⁶ XIAOCHUN LIU,¹⁶ YAYAN LUO,¹⁶ A. MACHORDOM,³ ANDREW P. MARTIN,²⁹ E. MATTHYSEN,²¹ MAXWELL N. MAZZELLA,²⁹ MÉLODIE A. McGE- OCH,^{30,31} ZINING MENG,¹⁶ M. NISHIZAWA,²⁵ PATRICIA O'BRIEN,³² M. OHARA,²⁵ JUAN FRANCISCO ORNELAS,¹⁸ M. F. ORTU,¹¹ AMY B. PEDERSEN,³³ L. PRESTON,⁶ QIN REN,¹⁰ KARL-OTTO ROTHHAUPT,⁵ LOREN C. SACKETT,²⁹ QING SANG,¹⁶ G. M. SAWYER,⁶ K. SHIOJIRI,³⁴ DOUGLAS R. TAYLOR,¹⁷ S. VAN DONGEN,²¹ BETTINE JANSEN VAN VUUREN,^{7,31} S. VANDEWOESTIJNE,³⁵ H. WANG,²⁷ J. T. WANG,²⁷ LEWANG,¹⁶ XIANG-LI XU,¹⁰ GUANG YANG,²⁶ YONGPING YANG,²³ Y. Q. ZENG,²⁷ QING-WEN ZHANG,¹⁰ YONGPING ZHANG,¹⁶ Y. ZHAO²⁷ and YAN ZHOU,²³
¹6270 University Blvd, Vancouver, BC, V6T 1Z4, Canada; ²I.R.D., Centre de Biologie et de Gestion des Populations, BP 2528, Bamako, Mali; ³Departamento de Biodiversidad y Biología Evolutiva, Museo Nacional de Ciencias Naturales (CSIC), José Gutiérrez Abascal, 2, 28006, Madrid, Spain; ⁴University of Windsor – Great Lakes Institute for Environmental Research, Windsor, ON, N9B 3P4, Canada; ⁵Limnological Institute, University of Konstanz, D-78467 Konstanz, Germany; ⁶Department of Biological Sciences, University of North Texas, 1155 Union Circle, #305220, Denton, TX 76203-5017, USA; ⁷Evolutionary Genomics Group, Department of Botany and Zoology, Stellenbosch University, Private Bag, X1, Matieland 7602, South Africa; ⁸Institut de Recherche pour le Développement (I.R.D.), Centre de Biologie et de Gestion des Populations (UMR IRD/INRA/Cirad/SupAgro), Campus International de Baillarguet CS30016, 34988 Montpellier-sur-Lez, France; ⁹Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT 06520, USA; ¹⁰College of Agronomy and Biotechnology, China Agricultural University, 100193, Beijing, China; ¹¹E.A. 4228 ECOMERS, Université de Nice-Sophia Antipolis, Faculté de Sciences, Parc Valrose, BP 71, F-06108 Nice Cedex, France; ¹²Laboratorio de Genética de la Conservación, Centro de Investigaciones Biológicas del Noroeste Mar Bermejo 195, Col. Playa Palo de Santa Rita; La Paz, B.C.S. 23090, Mexico; ¹³Laboratorio de Aracnología y Entomología, Centro de Investigaciones Biológicas del Noroeste Mar Bermejo 195, Col. Playa Palo de Santa Rita; La Paz, B.C.S. 23090, Mexico; ¹⁴I.R.D., Centre Régional Agrhymet, Rive droite, BP11011, Niamey, Niger; ¹⁵Department of Biology, Utah State University, Uintah Basin Regional Campus, 1680 West Highway 40, Vernal, UT 84078, USA; ¹⁶State Key Laboratory of Biocontrol, Institute of Aquatic Economic Animals and the Guangdong Province Key Laboratory for Aquatic Economic Animals, School of Life Sciences, Sun Yat-Sen University, Guangzhou, China; ¹⁷Department of Biology, University of Virginia, Charlottesville, VA 22904, USA; ¹⁸Departamento de Biología Evolutiva, Instituto de Ecología, A.C. Km 2.5 Carretera Antigua a Coatepec No. 351, Congregación El Haya, Xalapa, Veracruz 91070, México; ¹⁹Doctorado en Ciencias Biomédicas, Universidad Nacional Autónoma de México (UNAM), México, D. F. 04510, México; ²⁰USDA Forest Service Northern Research Station, Hamden, CT 06514, USA; ²¹University of Antwerp, Evolutionary Ecology Group, Groenenborgerlaan 171, 2020 Antwerp, Belgium; ²²Department of Biology, University of Central Florida, 4000 Central Florida Blvd., Orlando, FL 32816, USA; ²³Kunming Institute of Botany, Institute of Tibet Plateau Research at Kunming, Chinese Academy, Kunming, China; ²⁴Department of Ecology and Environmental Science, Umeå Plant Science Centre, Umeå University, SE-901 87 Umeå, Sweden; ²⁵Graduate School of Environmental Science, Hokkaido University, Sapporo, Hokkaido, 060-0810, Japan; ²⁶Jiangsu Key Laboratory for Biodiversity and Biotechnology, College of Life Sciences, Nanjing Normal University, Nanjing 210046, China; ²⁷College of Animal Science and Technology, Shandong Agricultural University, Taian 271018, China; ²⁸Department of Entomology, University of California, Davis, CA 95616, USA; ²⁹Department of Ecology and Evolutionary Biology, University of Colorado, N122 Ramaley, UCB 334, Boulder, CO 80309, USA; ³⁰Cape Research Centre, South

African National Parks, P.O. Box 216, Steenberg 7947, South Africa; ³¹Department of Botany and Zoology, Centre for Invasion Biology, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa; ³²Center of Veterinary Science, FISH Lab, Madingley Road, Cambridge CB3 0ES, UK; ³³Centre for Infection, Immunity and Evolution, Institute of Evolutionary Biology, University of Edinburgh, Ashworth Laboratories, Kings Buildings, Edinburgh EH10 5HN, UK; ³⁴Center of Ecological Research, Kyoto University, Otsu 520-2113, Japan; ³⁵Université catholique de Louvain, Biodiversity Research Centre, Place Croix du Sud 4-5, 1348 Louvain-la-Neuve, Belgium

Abstract

This article documents the addition of 238 microsatellite marker loci and 72 pairs of Single Nucleotide Polymorphism (SNP) sequencing primers to the Molecular Ecology Resources Database. Loci were developed for the following species: *Adelges tsugae*, *Artemisia tridentata*, *Astroides calycularis*, *Azorella selago*, *Botryllus schlosseri*, *Botrylloides violaceus*, *Cardiocrinum cordatum* var. *glehnii*, *Campylopterus curvipennis*, *Colocasia esculenta*, *Cynomys ludovicianus*, *Cynomys leucurus*, *Cynomys gunnisoni*, *Epinephelus coioides*, *Eunicella singularis*, *Gammarus pulex*, *Homoeosoma nebulella*, *Hyla squirella*, *Lateolabrax japonicus*, *Mastomys erythroleucus*, *Pararge aegeria*, *Pardosa sierra*, *Phoenicopterus ruber ruber* and *Silene latifolia*. These loci were cross-tested on the following species: *Adelges abietis*, *Adelges cooleyi*, *Adelges piceae*, *Pineus pini*, *Pineus strobi*, *Tubastrea micrantha*, three other *Tubastrea* species, *Botrylloides fuscus*, *Botrylloides simodensis*, *Campylopterus hemileucurus*, *Campylopterus rufus*, *Campylopterus largipennis*, *Campylopterus villaviscensio*, *Phaethornis longuemareus*, *Florisuga mellivora*, *Lampornis amethystinus*, *Amazilia cyanocephala*, *Archilochus colubris*, *Epinephelus lanceolatus*, *Epinephelus fuscoguttatus*, *Symbiodinium temperate-A* clade, *Gammarus fossarum*, *Gammarus roeselii*, *Dikerogammarus villosus* and *Limnomysis benedeni*. This article also documents the addition of 72 sequencing primer pairs and 52 allele specific primers for *Neophocaena phocaenoides*.

This article documents the addition of 238 microsatellite marker loci and 72 pairs of Single Nucleotide Polymorphism (SNP) genotyping primers to the Molecular Ecology Resources Database. Table 1 contains information on the focal species, the number of loci developed, any other species the loci were tested in and the accession numbers for the loci in both the Molecular Ecology Resources Database and GenBank. The authors responsible for each set of loci are listed in the final column. Table 2 presents information on

SNP genotyping resources added to the MER database, and presents data on the focal species, the number of sequencing primer pairs, the observed number of SNPs, other species the loci were tested in, and the number of allele specific primers or probes. The MER database and Genbank accession numbers and the authors responsible are also listed. A full description of the development protocol for the loci presented here can be found on the Molecular Ecology Resources Database (<http://tomato.biol.trinity.edu/>).

Table 1 Information on the focal species, the number of loci developed, any other species the loci were tested in and the accession numbers for the loci in both the Molecular Ecology Resources Database and GenBank. The authors responsible for each set of loci are listed in the final column

Species	No. of primers developed	Other species tested	MER database no.	GenBank Accession no.	Authors
<i>Adelges tsugae</i>	16	<i>A. abietis</i> , <i>A. cooleyi</i> , <i>A. piceae</i> , <i>Pinus pini</i> , <i>P. strobi</i>	37980–37995	GQ368549– GQ368564	Nathan P. Havil Adalgisa Caccone
<i>Artemisia tridentata</i>	8	n/a	41279–41286	AB488553– AB488560	S. Ishizaki S. Kubota K. Shiojiri R. Karban M. Ohara
<i>Astroides calycularis</i>	13	<i>Tubastrea micrantha</i> , <i>Tubastrea</i> sp. 1, <i>Tubastrea</i> sp. 2, <i>Tubastrea</i> sp. 3	41292–41304	GQ292717– GQ292725, GQ496302– GQ496305	P. Casado-Amezúa I. Acevedo R. García-Jiménez A. Machordom
<i>Azorella selago</i>	8	n/a	42478–42485	GQ3651674– GQ3651681	Céline Born Mélodie A. McGeoch Bettine Jansen van Vuuren
<i>Botryllus schlosseri</i> , <i>Botrylloides violaceus</i>	28	<i>Botrylloides fuscus</i> , <i>Botrylloides simodensis</i>	38070–38097	GQ272527– GQ272554	Dan G. Bock Abisola A. Adebayo Emmanuel E. Egboimba Melania E. Cristescu
<i>Cardiocrinum cordatum</i> var. <i>glehnii</i>	13	n/a	41315–41327	AB512096– AB512108	M. Nishizawa S. Kubota M. Ohara
<i>Campylopterus curvipennis</i>	10	<i>C. hemileucurus</i> , <i>C. rufus</i> , <i>C. largipennis</i> , <i>C. villaviscensio</i> , <i>Phaethornis longuemareus</i> , <i>Florisuga mellivora</i> , <i>Lampornis amethystinus</i> , <i>Amazilia cyanocephala</i> , <i>Archilochus colubris</i>	41305–41314	GQ294539– GQ294550	Clementina Gonzalez Carla Gutierrez-Rodriguez Juan Francisco Ornelas
<i>Colocasia esculenta</i>	19	n/a	38144–38162	FJ895330– FJ895348	Wansha Li Yan Zhou Yongping Yang Xiangyang Hu
<i>Cynomys ludovicianus</i> , <i>C. leucurus</i> , <i>C. gunnisoni</i>	9	n/a	38175–38184	FJ971631– FJ971639, FJ997263, FJ980459– FJ980464	Loren C. Sackett Lianna K. Etchberger Maxwell N. Mazzella Douglas D. Lim Andrew P. Martin
<i>Epinephelus coioides</i>	14	<i>Epinephelus lanceolatus</i> , <i>Epinephelus fuscoguttatus</i>	37966–37979	GQ267993– GQ267993 GQ381271, GQ429007– GQ429009	Le Wang Zining Meng Bin Fan Qing Sang Yayan Luo Yong Zhang Xiaochun Liu Haoran Lin

Table 1 (Continued).

Species	No. of primers developed	Other species tested	MER database no.	GenBank Accession no.	Authors
<i>Eunicella singularis</i>	12	<i>Symbiodinium</i> temperate-A clade	41272–41291	FJ917540–FJ917550, FJ919777	J. Cataneo M. F. Ortu P. Furla D. Forcioli
<i>Gammarus pulex</i>	8	<i>Gammarus fossarum</i> , <i>Gammarus roeselii</i> , <i>Dikerogammarus villosus</i> , <i>Limnomysis benedeni</i>	41336–41343	EH268406, EH269344, EH271322, EH271465, EH271889, EH272785, EH274528, EH275159	René Gergs Karl-Otto Rothhaupt Jasminca Behrmann-Godel
<i>Homoeosoma nebulella</i>	9	n/a	38098–38106	GQ150803– GQ150811	Ling-Zhen Cao Qin Ren Xiang-Li Xu Qing-Wen Zhang
<i>Hyla squirella</i>	11	n/a	42486–42496	GQ438807– GQ438817	Tyler D. Hether Eric A. Hoffman
<i>Lateolabrax japonicus</i>	11	n/a	42459–42469	GQ455996 GQ455997 GQ456002 GQ456006 GQ456007 GQ456013 GQ456018 GQ456019 GQ456022 GQ456032 GQ456037	Y. Zhao X. S. Ji H. Wang Y. Q. Zeng J. T. Wang
<i>Mastomys erythroleucus</i>	12	n/a	38163–38174	GQ406216– GQ406227	Philippe Gauthier Patricia O'Brien Laurent Granjon Doukary Abdoullaye Carine Brouat Gauthier Dobigny
<i>Pararge aegeria</i>	10	n/a	41344–41353	FJ899644–FJ899647, FJ899649–FJ899651, GQ847528– GQ847530	P. Helsen S. Vandewoestijne S. Van Dongen E. Matthysen
<i>Pardosa sierra</i>	10	n/a	37996–38005	EU580603– EU580608, FJ975139– FJ975142	M. M. Correa-Ramirez F. J. Garcia de Leon M. L. Jimenez
<i>Phoenicopterus ruber ruber</i>	9	n/a	38108–38116	GQ219786– GQ219790, GQ379053– GQ379055, GQ221667	R. Kapil G. M. Sawyer L. Preston R. C. Benjamin
<i>Silene latifolia</i>	8	n/a	41328–41335	FJ573199, FJ573200, FJ573202– FJ573204, FJ573206, FJ573207, FJ573209	Peter D. Fields Stephen R. Keller Pär K. Ingvarsson Amy B. Pedersen Douglas R. Taylor

Table 2 Information on the focal species, the sequencing primer pairs developed, the number of single nucleotide polymorphisms observed and any other species the loci were tested in. The next columns contain the number of allele specific primers and probes developed, and the Molecular Ecology Resources database and GenBank accession numbers, respectively. The authors responsible for each set of loci are listed in the final column

Species	No. of primer pairs	No. of SNPs in sequence	No. of allele specific primers/probe	MER database no.	Genbank Accession no.	Authors
<i>Neophocaena phocaenoides</i>	72	137	52	38006–38040	FI592654, FI592658–FI592662, FI592665, FI592667, FI592668, FI592670, FI592671, FI592673, FI592678, FI592680–FI592688, FI592690, FI592691, FI592693–FI592697, FI592699–FI592704, FI592706–FI592711, FI592713, FI592714, FI592717	Shuzhen Li Heyi Ji Guang Yang