

PERMANENT GENETIC RESOURCES NOTE

Permanent Genetic Resources added to Molecular Ecology Resources Database 1 October 2012–30 November 2012

MOLECULAR ECOLOGY RESOURCES PRIMER DEVELOPMENT CONSORTIUM,¹ SERAP AKSOY,² VERA MARIA F. ALMEIDA-VAL,³ V. C. R. AZEVEDO,⁴ REGINA BAUCOM,⁵ PILAR BAZAGA,⁶ L. B. BEHEREGARAY,⁷ JEFFREY L. BENNETZEN,⁸ RICARDO A. BRASSALOTI,⁹ TREENA I. BURGESS,¹⁰ ADAGISA CACCONE,¹¹ SHU-MEI CHANG,¹² A. Y. CIAMPI,⁴ S. CIANCALEONI,¹³ GISELE T. CLÍMACO,³ CÉCIL CLOUET,¹⁴ MARIA R. M. COIMBRA,¹⁵ LUIZ L. COUTINHO,⁹ HOZANA L. DANTAS,¹⁵ CLARA DE VEGA,⁶ RICHARD ECHODU,¹⁶ JOHN ENYARU,¹⁷ ANTONIO FIGUEIRA,¹⁸ MANOEL A. G. FILHO,¹⁹ BRITNIE FOLTZ,¹² L. FRESSIGNÉ,⁷ MATEUSZ GADOMSKI,²⁰ NATHALIE GAUTHIER,²¹ CARLOS M. HERRERA,⁶ CHAZ HYSENI,¹¹ ERIKA C. JORGE,²² DARIUSZ KACZMARCZYK,²⁰ EMILY KNOTT,²³ ADAM KUESTER,⁵ ANA P. S. LIMA,^{15,19} MAÍRA A. LIMA,¹⁵ MARCOS P. LIMA,²⁴ ANA LUIZA B. LONGO,⁹ GRANT LOR,¹² RODRIGO MAGGIONI,²⁵ THIAGO S. MARQUES,²⁶ ALINE R. MARTINS,²⁷ DANIELE A. MATOSO,²⁸ MÓNICA MEDRANO,⁶ M. A. C. MENDONÇA,²⁹ RAEANN METTLER,³⁰ PRISCILA ROBERTA M. NASCIMENTO,³ V. NEGRI,¹³ KARINE K. C. OLIVEIRA,¹⁵ L. O. OLIVEIRA,²⁹ IRINA OVCARENKO,³¹ MARIA N. PAULA-SILVA,³ L. RAGGI,¹³ J. SANDOVAL-CASTILLO,⁷ CARLOS HENRIQUE DOS ANJOS SANTOS,³ H. MARTIN SCHAEFER,³⁰ GERNOT SEGELBACHER,³² MIYUKI M. SEINO,⁶ MARK SISTROM,¹¹ MATSEPO M. TAOLE,³³ P. R. TESKE,⁷ ANASTASIA TSAGKARAKOU,³⁴ LUCIANO M. VERDADE,²⁶ PRISCILLA M. S. VILLELA,⁹ C. C. VINSON,²⁹ BRENDA D. WINGFIELD³⁵ and MICHAEL J. WINGFIELD³³

¹Molecular Ecology Resources Editorial Office, 6270 University Blvd, Vancouver, BC V6T 1Z4, Canada, ²Department of Epidemiology of Microbial Diseases, Yale University School of Public Health, New Haven, CT, USA, ³Laboratório de Ecofisiologia e Evolução Molecular, Instituto Nacional de Pesquisas da Amazônia, Manaus, AM 69060-001, Brazil, ⁴Laboratório de Genética Vegetal, Embrapa Recursos Genéticos e Biotecnologia, C.P. 02372 Brasília, DF 70770-900, Brazil, ⁵Biological Sciences Department, University of Cincinnati, 721 Rieveschl Hall, Cincinnati, OH, USA, ⁶Estación Biológica de Doñana, CSIC, Avda. Américo Vespucio s/n, 41092 Sevilla, Spain, ⁷Molecular Ecology Lab, School of Biological Sciences, Flinders University, Adelaide, SA 3001, Australia, ⁸C426a Life Sciences Building, Department of Genetics, University of Georgia, Athens, GA, USA, ⁹Departamento de Zootecnia, Escola Superior de Agricultura Luiz de Queiroz, Universidade de São Paulo, Piracicaba, Estado de São Paulo, 13418-900 Brazil, ¹⁰CRC for Forestry, School of Biological Sciences and Biotechnology, Murdoch University, Murdoch 6150, Australia, ¹¹Department of Ecology and Evolutionary Biology, Yale University, 21 Schem Street, New Haven, CT 06511, USA, ¹²Plant Biology Department, University of Georgia, 2502 Plant Sciences Building 120 Carlton St, Athens, GA, USA, ¹³Dipartimento di Biologia Applicata, Università degli Studi di Perugia, Borgo XX Giugno 74, Perugia 06121, Italy, ¹⁴INRA, UMR (INRA, IRD, CIRAD, SupaGro), CBGP (Centre de Biologie pour la Gestion des Populations), Campus international de Baillarguet, CS 30016, Montpellier-sur-Lez Cedex F-34988, France, ¹⁵Departamento de Pesca e Aquicultura, Universidade Federal Rural de Pernambuco, Rua Dom Manoel de Medeiros, Recife, Pernambuco Brazil, ¹⁶Faculty of Science, Gulu University, Gulu, Uganda, ¹⁷School of Biological Sciences Makerere University, Uganda, ¹⁸Laboratório de Melhoramento de Plantas, Centro de Energia Nuclear na Agricultura, Universidade de São Paulo, Piracicaba, Estado de São Paulo 13418-900, Brazil, ¹⁹Departamento de Morfologia e Fisiologia Animal, Universidade Federal Rural de Pernambuco, Rua Dom Manoel de Medeiros, Recife, Pernambuco Brazil, ²⁰Department of Environmental Biotechnology, University of Warmia and Mazury, Olsztyn, Poland, ²¹IRD, UMR (INRA, IRD, CIRAD, SupaGro), CBGP (Centre de Biologie pour la Gestion des Populations), Campus international de Baillarguet, CS 30016, Montpellier-sur-Lez Cedex F-34988, France, ²²Departamento de Morfologia, Universidade Federal de Minas Gerais, Belo Horizonte, MG 31270-901, Brazil, ²³Department of Biological and Environmental Science, University of Jyväskylä, P.O. Box 35, FI-40014, Finland, ²⁴Instituto de Ciência e Tecnologia das Águas, Universidade Federal do Oeste do Pará, Santarém, PA 68135-110, Brazil, ²⁵Instituto de Ciências do Mar, Universidade Federal do Ceará, Av. Abolição, Fortaleza, Ceará, Brazil, ²⁶Laboratório de Ecologia Isotópica, Centro de Energia Nuclear na Agricultura, Universidade de São Paulo, Piracicaba, Estado de São Paulo 13416-000, Brazil, ²⁷Departamento de Ciências Biológicas, Universidade de São Paulo, Escola Superior de Agricultura Luiz de Queiroz, Piracicaba, Estado de São Paulo 13418-900, Brazil, ²⁸Departamento de Biologia, Universidade Federal do Amazonas, Manaus, AM 69077-000, Brazil, ²⁹Laboratório de Biologia Molecular e Filogeografia, Instituto de Biotecnologia Aplicada à Agropecuária,

Correspondence: Molecular Ecology Resources Primer Development Consortium, E-mail: editorial.office@molecol.com

Universidade Federal de Viçosa, Viçosa, MG 36570-000, Brazil, ³⁰Department of Evolutionary Biology and Animal Ecology, University of Freiburg, Freiburg, Germany, ³¹Centre of Excellence in Biological Interactions, Department of Biological and Environmental Science, P.O. Box 35, University of Jyväskylä, FI-40014, Jyväskylä, Finland, ³²Department of Wildlife Ecology and Management, University of Freiburg, Freiburg, Germany, ³³Department of Microbiology and Plant Pathology, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria 0002, South Africa, ³⁴Hellenic Agricultural Organization-Demeter, Plant Protection Institute of Heraklion, Laboratory of Entomology and Agricultural Zoology, 71003 Heraklion, Greece, ³⁵Department of Genetics, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria 0002, South Africa

Abstract

This article documents the addition of 153 microsatellite marker loci to the Molecular Ecology Resources Database. Loci were developed for the following species: *Brassica oleracea*, *Brycon amazonicus*, *Dimorphandra wilsonii*, *Eupallasella percunurus*, *Helleborus foetidus*, *Ipomoea purpurea*, *Phrynops geoffroanus*, *Prochilodus argenteus*, *Pyura* sp., *Sylvia atricapilla*, *Teratosphaeria suttonii*, *Trialeurodes vaporariorum* and *Trypanosoma brucei*. These loci were cross-tested on the following species: *Dimorphandra coccicinea*, *Dimorphandra cuprea*, *Dimorphandra gardneriana*, *Dimorphandra jorgei*, *Dimorphandra macrostachya*, *Dimorphandra mollis*, *Dimorphandra parviflora* and *Dimorphandra pennigera*.

This article documents the addition of 153 microsatellite marker loci 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. 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. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Brassica oleracea</i>	9	n/a	50283, 50285, 50286, 50288, 50289, 50292-50295	AM231517, AJ344565, AY178440, AY306125, FJ529019, FJ848914, GQ177484, JF318402, U67456	Raggi, L.; Ciancaleoni, S.; Negri, V.
<i>Brycon amazonicus</i>	8	n/a	50160, 50170-50172, 50174-50177	JQ993449-JQ993451, JQ993453, JQ993454, JQ993457, JQ993459, JQ993462	Clímaco, Gisele T.; Santos, Carlos Henrique dos Anjos; Nascimento, Priscila Roberta M.; Lima, Marcos P.; Paula-Silva, Maria N.; Matoso, Daniele A.; Almeida-Val, Vera Maria F.
<i>Dimorphandra wilsonii</i>	9	<i>D. coccicinea</i> , <i>D. cuprea</i> , <i>D. gardneriana</i> , <i>D. jorgei</i> , <i>D. macrostachya</i> , <i>D. mollis</i> , <i>D. parviflora</i> , <i>D. pennigera</i>	50216-50222, 50224, 50225	JX045934-JX045942	Vinson, C. C.; Azevedo, V. C. R.; Mendonça, M. A. C.; Ciampi, A. Y.; Oliveira, L. O.
<i>Eupallasella percunurus</i>	11	n/a	50226-50236	JQ937245-JQ937250, JQ937252, JQ937253, JX424297-JX424299	Kaczmarczyk, Dariusz; Gadomski, Mateusz

Table 1 (Continued)

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Helleborus foetidus</i>	26	n/a	50237-50240, 50242-50246, 50248-50262, 50371, 50372	JX905360-JX905372, JX905373, JX905385	Seino, Miyuki M.; de Vega, Clara; Bazaga, Pilar; Medrano, Mónica; Herrera, Carlos M.
<i>Ipomoea purpurea</i>	20	n/a	50263-50282	KC122206-KC122225	Kuester, Adam; Foltz, Britnie; Lor, Grant; Chang, Shu-Mei; Bennetzen, Jeffrey L.; Baucom, Regina
<i>Phrynops geoffroanus</i>	8	n/a	50208-50215	JX402861-JX402867, JX402869	Villela, Priscilla M. S.; Longo, Ana Luiza B.; Jorge, Erika C.; Brassaloti, Ricardo A.; Martins, Aline R.; Marques, Thiago S.; Verdade, Luciano M.; Figueira, Antonio; Coutinho, Luiz L.
<i>Prochilodus argenteus</i>	8	n/a	50161-50168	JX629288-JX629295	Lima, Ana P. S.; Oliveira, Karine K. C.; Lima, Máira A.; Dantas, Hozana L.; Maggioni, Rodrigo; Filho, Manoel A. G.; Coimbra, Maria R. M.
<i>Pyura</i> sp.	10	n/a	50198-50207	JX993115-JX993124	Teske, P. R.; Sandoval-Castillo, J.; Fressigné, L.; Beheregaray, L. B.
<i>Sylvia atricapilla</i>	9	n/a	50330-50338	JQ283445-JQ283453	Mettler, Raeann; Schaefer, H. Martin; Segelbacher, Gernot
<i>Teratosphaeria suttonii</i>	11	n/a	46749-46759	JN133903- JN133913	Taole, Matsepo M.; Wingfield, Brenda D.; Burgess, Treena I.; Wingfield, Michael J.
<i>Trialeurodes vaporariorum</i>	13	n/a	50317-50329	GF112015-GF112022, GF112024, GF112025, GF112027-GF112029	Ovcarenko, Irina; Clouet, Cécile; Knott, Emily; Tsagkarakou, Anastasia; Gauthier, Nathalie
<i>Trypanosoma brucei</i>	11	n/a	50306-50316	See ms for details.	Sistrom, Mark; Echodu, Richard; Hyseni, Chaz; Enyaru, John; Aksoy, Serap; Caccone, Adagisa