



PERMANENT GENETIC RESOURCES NOTE

Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2011–30 September 2011

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Abstract

This article documents the addition of 299 microsatellite marker loci and nine pairs of single-nucleotide polymorphism (SNP) EPIC primers to the Molecular Ecology Resources (MER) Database. Loci were developed for the following species: *Alosa pseudoharengus*, *Alosa aestivalis*, *Aphis spiraecola*, *Argopecten purpuratus*, *Coreoleuciscus splendidus*, *Garra gotyla*, *Hippodamia convergens*, *Linnaea borealis*, *Menippe mercenaria*, *Menippe adina*, *Parus major*, *Pinus densiflora*, *Portunus trituberculatus*, *Procontarinia mangiferae*, *Rhynchophorus ferrugineus*, *Schizothorax richardsonii*, *Scophthalmus rhombus*, *Tetraponera aethiops*, *Thaumetopoea pityocampa*, *Tuta absoluta* and *Ugni molinae*. These loci were cross-tested on the following species: *Barilius bendelisis*, *Chiromantes haematocheir*, *Eriocheir sinensis*, *Eucalyptus camaldulensis*, *Eucalyptus cladocalix*, *Eucalyptus globulus*, *Garra litaninsis vishwanath*, *Garra para lissorhynchus*, *Guindilla trinervis*, *Hemigrapsus sanguineus*, *Luma chequen*, *Guayaba*, *Myrceugenia colchagiensis*, *Myrceugenia correifolia*, *Myrceugenia exsucca*, *Parasarma plicatum*, *Parus major*, *Portunus pelagicus*, *Psidium guayaba*, *Schizothorax richardsonii*, *Scophthalmus maximus*, *Tetraponera latifrons*, *Thaumetopoea bonjeani*, *Thaumetopoea ispartensis*, *Thaumetopoea libanotica*, *Thaumetopoea pinivora*, *Thaumetopoea pityocampa ena clade*, *Thaumetopoea solitaria*, *Thaumetopoea wilkinsoni* and *Tor putitora*. This article also documents the addition of nine EPIC primer pairs for *Euphaea decorata*, *Euphaea formosa*, *Euphaea ornate* and *Euphaea yayeyamana*.

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This article documents the addition of 299 microsatellite marker loci and nine pairs of single-nucleotide polymorphism (SNP) genotyping primers to the Molecular Ecology Resources Database. Table 1 contains information on

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 (MER) 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>Alosa pseudoharengus</i> , <i>Alosa aestivalis</i>	18	n/a	47166–47201	JN383992–JN384009	Labbe, Ellen M.; Argo, Emily E.; Schultz, Thomas F.; Palkovacs, Eric P.; Willis, Theodore V.
<i>Aphis spiraecola</i>	9	n/a	47081–47089	HM854169–HM854171, JN214382–JN214384, JN214386–JN214388	Mezghani-Khemakhem, M.; Kharrat, I.; Casse, N.; Bouktila, D.; Makni, M.; Makni H.

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

Table 1 (Continued)

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Argopecten purpuratus</i>	8	n/a	47373–47380	JN674552–JN674559	Haye, P. A.; Segovia, N. I.; Gallardo-Escárate, C.
<i>Coreoleuciscus splendidus</i>	13	n/a	47143–47155	JF972368–JF972380	Kwan, Ye-Seul; Lee, Wan-Ok; Won, Yong-Jin
<i>Garra gotyla</i>	28	<i>G. para lissorhynchus</i> , <i>G. litaninsis vishwanath</i> , <i>Barilius bendelisis</i> , <i>Schizothorax richardsonii</i> , <i>Tor putitora</i>	47345–47372	HQ288484, HQ288485, HQ288489–HQ288499, HQ288501, HQ288502, HQ288504, HQ288506, HQ288507, HQ288510, HQ288511, HQ288517, HQ288526, HQ288661, JF268657, JF268662, JF268664, JF268665	Matura, Rakesh; Sharma, Suresh; Barat, Ashoktaru; Pande, Veena; Mahanta, Prabin Chandra
<i>Hippodamia convergens</i>	12	n/a	47397–47408	JN565049–JN565060	Michel, Andy P.; Zhang, W.; Gardiner, Mary M.
<i>Linnaea borealis</i>	10	n/a	47156–47165	JN674504–JN674512	A'Hara, S. W.; Scobie, A. R.; Broome, A.; Long, D.; Cottrell, J. E.
<i>Menippe mercenaria</i> , <i>M. adina</i>	22	n/a	46925–46968	GU970048–GU970069	Seyoum, Seifu; Bert, Theresa M.; Puchulutegui, Cecilia; Davis, Michelle C.; Muriel-Cunha, Janice; Crawford, Charles R.; McMillen-Jackson, Anne L.; Barbieri, Luiz
<i>Parus major</i>	15	n/a	47128–47142	HQ263118–HQ263132	Saladin, Verena; Richner, Heinz
<i>Pinus densiflora</i>	16	n/a	47381–47396	JN634766–JN634781	Lee, Kyung Mi; Kim, Yong Yul; Kim, Ki Hwan; Jeon, Ji Hyun; Cho, Kyung Jin
<i>Portunus trituberculatus</i>	11	<i>P. pelagicus</i> , <i>Eriocheir sinensis</i> , <i>Hemigrapsus sanguineus</i> , <i>Chiromantes haematocheir</i> , <i>Parasesarma plicatum</i>	46914–46924	JF505633–JF505643	Li, H.; Ye, N. H.; Liu, Y. G.; Zhang, Y. X.; Liu, S. S.
<i>Procontarinia mangiferae</i>	11	n/a	47057–47067	JF746879–JF746889	Amouroux, P.; Normand, F.; Nibouche, S.; Delatte H.
<i>Rhynchophorus ferrugineus</i>	15	n/a	47113–47127	JN374673–JN374687	Capdevielle-Dulac, C.; El-Mergawy, R. A. A. M.; Avand-Faghih, A.; Rochat, D.; Silvain, J.-F.

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Table 1 (Continued)

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Schizothorax richardsonii</i>	34	n/a	47292–47325	HM591233–HM591236, HM591238, HM591240–HM591242, HM591244, HM591246–HM591256, HM591258, HM591260, HM591264–HM591266, HM591270–HM591272, HM591276, HM591278, HM591279, HM591281, HM591283	Barat, Ashoktaru; Chandra, Suresh; Matura, Rakesh
<i>Scophthalmus rhombus</i>	15	<i>S. maximus</i>	47090–47104	JF900344–JF900358	Vandamme, S. G.; Maes, G. E.; Van Houdt, J. K. J.; Hellemans, B.; Robbens, J.; Parmentier, K.; Volckaert, F. A. M.
<i>Tetraponera aethiops</i>	14	<i>T. latifrons</i>	46982–47009	JN190035–JN190048	Piatscheck, F.; Djipto-Lordon, C.; Garcia, M.; Sauve, M.; Peccoud, J.; Dubois, M. P.; McKey, D.; Blatrix, R.
<i>Thaumetopoea pityocampa</i>	13	<i>T. p. ena clade</i> , <i>T. wilkinsoni</i> , <i>T. pinivora</i> , <i>T. libanotica</i> , <i>T. bonjeani</i> , <i>T. ispartensis</i> , <i>T. solitaria</i>	46969–46981	JN400258–JN400270	Burban, C.; Magnoux, E.; Rousselet, J.; Kerdelhué, C.
<i>Tuta absoluta</i>	19	n/a	47326–47344	JN680765–JN680783	Guillemaud, Thomas; Legoff, Isabelle; Blin, Aurélie; Tabone, Elisabeth; Desneux, Nicolas; Malausa, Thibaut
<i>Ugni molinae</i>	16	<i>Myrceugenia correifolia</i> , <i>M. colchagiensis</i> , <i>M. exsucca</i> , <i>Guindilla trinervis</i> , <i>Luma chequen</i> , <i>Guayaba</i> , <i>Psidium guayaba</i> , <i>Eucalyptus cladocalix</i> , <i>E. camaldulensis</i> , <i>E. globulus</i>	46809–46824	HQ917086–HQ917101	Ramos, R.; Ravest, G.; Méndez, M.A.; Hinrichsen, P.

Table 2 Information on the focal species, the sequencing primer pairs developed, the number of single-nucleotide polymorphisms (SNPs) 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 (MER) database and GenBank accession numbers, respectively. The authors responsible for each set of loci are listed in the final column

Species	No. primer pairs	No. SNPs in sequence	Other species tested	No. Allele specific primers/probe	Target gene(s)	MER database numbers	Genbank Accession no.	Authors
<i>Euphaea formosa</i> , <i>E. yayeyamana</i> , <i>E. ornate</i> , <i>E. decorata</i>	9	See Table 2 in text for details.	n/a	n/a	See Table 1 in text for details.	47048–47056	JN246927–JN247002, JN389796–JN390424	Lee, Yat-Hung; Lin, Chung-Ping

Table 3 Information on other resources recently uploaded to the Molecular Ecology Resources program wiki (<http://tomato.biol.trinity.edu/programs/>). The authors are listed in the final column

Species	Category	Type of resource	Authors
<i>Oncorhynchus tshawytscha</i>	Technique	Microsatellite allele ladder-based standardization	LaHood, Eric; Schlei, Ora; Wenburg, John; Moran, Paul

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/>).

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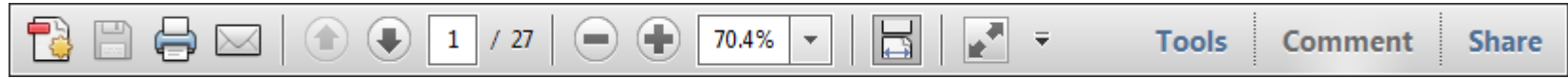
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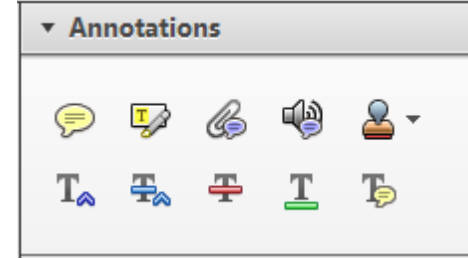
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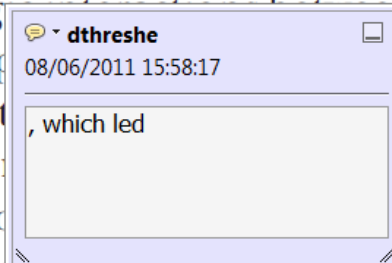


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standard framework for the analysis of microeconomics. Nevertheless, it also led to the emergence of strategic behavior in the number of competitors in an industry. This is that the structure of an industry, its main components, and the level, are exogenous to the industry. An important work on this by Shirasaka (henceforth) we open the 'black b



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Strikes a red line through text that is to be deleted.

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there is no room for extra profits and the number of competitors are zero and the number of firms (net) values are not determined by the number of firms. Blanchard and ~~Kiyotaki~~ (1987), perfect competition in general equilibrium. The effects of aggregate demand and supply in the classical framework assuming monopoly power are an exogenous number of firms

3. Add note to text Tool – for highlighting a section to be changed to bold or italic.



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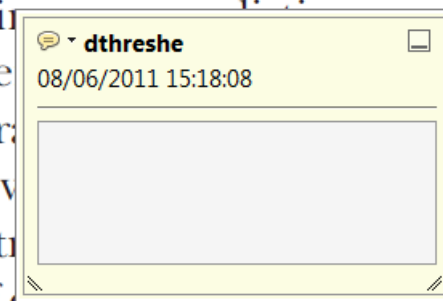


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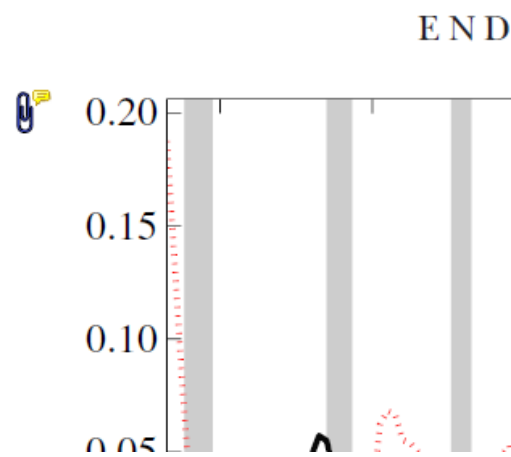
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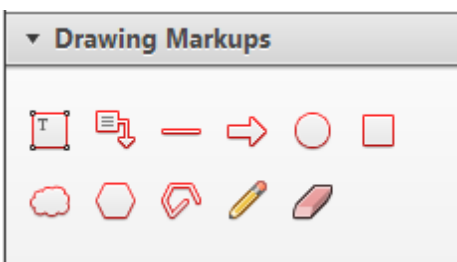


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of the business cycle, starting with the
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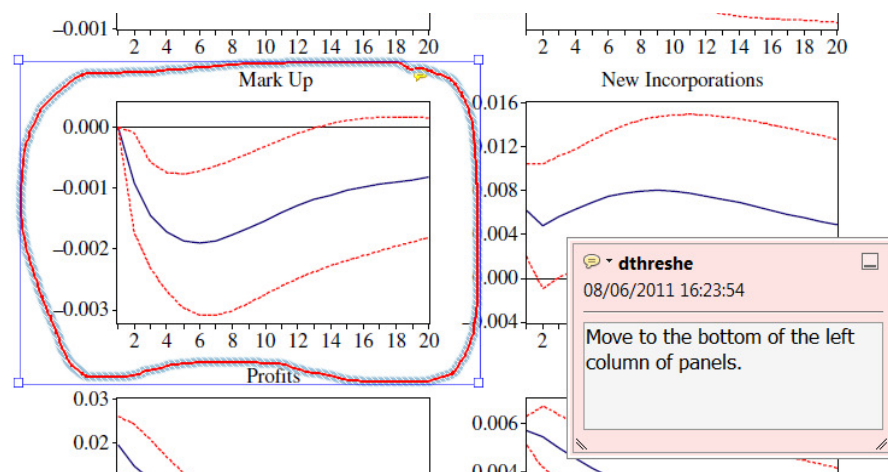


7. Drawing Markups Tools – for drawing shapes, lines and freeform annotations on proofs and commenting on these marks.

Allows shapes, lines and freeform annotations to be drawn on proofs and for comment to be made on these marks..

How to use it

- Click on one of the shapes in the [Drawing Markups](#) section.
- Click on the proof at the relevant point and draw the selected shape with the cursor.
- To add a comment to the drawn shape, move the cursor over the shape until an arrowhead appears.
- Double click on the shape and type any text in the red box that appears.



For further information on how to annotate proofs, click on the [Help](#) menu to reveal a list of further options:

