

International Cocoa Quarantine Centre (ICQC, R) Newsletter



June 2012

Welcome to the latest edition of the ICQC, R Newsletter. In this issue we focus on the latest releases of material from quarantine and the release of the new version of ICGD. We also highlight the availability of enhanced breeding programme materials for black pod resistance.

Releases from Quarantine

Recent releases from quarantine include enhanced breeding material for black pod resistance developed at CRU, Trinidad (GEBP series, see below), clones that have been screened for witches' broom disease at CRU and one clone from the CFC/ICCO/Bioversity Collection. All of these clones were selected for superior yield traits and/ or disease resistance.

The full list of accessions held at ICQC, R is available at the link below:-

<http://www.icgd.rdg.ac.uk/accession.php>

Table 1: Recent releases of accessions from quarantine, which are now available for budwood export. Click on clone name to access further information from ICGD where available (underlined)

Clone	Reading Accession Number	Donor Genebank
<u>AMAZ 11 [CHA]</u>	RUQ 1600	ICG, T
<u>CRU 269¹</u>	RUQ 1632	ICG, T
<u>EET 19 [ECU]¹</u>	RUQ 1630	ICG, T
<u>GEBP 123/A-M [ADI]²</u>	RUQ 1648	ICG, T
<u>GEBP 211/A-F [ADI]²</u>	RUQ 1644	ICG, T
<u>GEBP 338/B-F [ADI]²</u>	RUQ 1652	ICG, T
<u>GEBP 403/A-F [ADI]²</u>	RUQ 1653	ICG, T
<u>GEBP 426/A-F [ADI]²</u>	RUQ 1653	ICG, T
<u>GEBP 450/A-F [ADI]²</u>	RUQ 1651	ICG, T
<u>GEBP 463/A-F [ADI]²</u>	RUQ 1668	ICG, T
<u>GEBP 509/A-F [ADI]²</u>	RUQ 1675	ICG, T
<u>GEBP 565/A-F [ADI]²</u>	RUQ 1625	ICG, T
<u>GEBP 584/A-F [ADI]²</u>	RUQ 1643	ICG, T
<u>GEBP 589/A-F [ADI]²</u>	RUQ 1657	ICG, T

<u>IMC 33</u>	RUQ 1679	ICG, T
<u>IMC 58¹</u>	RUQ 1666	ICG, T
<u>LCT EEN 212/S-4</u>	RUQ 1665	ICG, T
<u>LP 4/24 [POU]¹</u>	RUQ 1673	ICG, T
<u>LP 4/8 [POU]¹</u>	RUQ 1601	ICG, T
<u>M 8 [SUR]</u>	RUQ 1672	ICG, T
<u>MOQ 5/5¹</u>	RUQ 1669	ICG, T
<u>NA 70¹</u>	RUQ 1649	ICG, T
<u>POUND 10/B [POU]¹</u>	RUQ 1618	ICG, T
<u>UF 168³</u>	RUQ 1677	ICG, T

¹Clones screened for witches' broom disease resistance at CRU

²Enhanced breeding material for black pod resistance (Trinidad)

³CFC/ICCO/Bioversity Collection

New Releases of ICGD

A new CD-ROM version of the International Cocoa Germplasm Database, **ICGD 2012**, has been released and copies have been posted to research institutes and individuals working on cocoa. The **ICGD Online** website (www.icgd.reading.ac.uk) has also been updated.

ICGD allows you to search for germplasm based on origin, location and a wide range of character data. You can enter your own clone lists, or use those generated from searches. All available data can be viewed for each clone, including photographs and microsatellite (SSR) profiles, where available. All information is referenced to its original source.

Both the CD and online versions of ICGD also include the Genetic Resources Evaluation and Selection Tool, **GRest**, which can be accessed from the home pages. GRest allows accessions to be impartially and unambiguously ranked, based on information on the traits the individuals possess and the genetic diversity they represent. The help files provide more information about the program and how to use it.

Availability of Enhanced Breeding Programme Materials

Between 1998 and 2002 the Cocoa Research Unit (CRU) in Trinidad carried out a pre-breeding programme with the objective of accumulating genes for resistance to black pod. Progeny from these individuals were then screened for black pod resistance and the most promising individuals planted in field trials. Subsequently, more detailed evaluations were made of performance both in terms of BP resistance and also agronomic characteristics.

A selection of the best performing individuals (the GEBP series) has subsequently been sent to ICQC, R for quarantine and onward distribution worldwide. The ICQC, R has received 24 of these clones, of which 18 have now passed through quarantine. Budwood cuttings from these clones have already been sent to a number of institutes in cocoa-growing countries.

CacaoNet Safe Movement Working Group

The CacaoNet Safe Movement Working Group was established in 2006 with a remit of initially updating the Safe Movement Guidelines for Cacao and then to review future developments in relation to the distribution, detection and knowledge base of pests and diseases of cocoa. As reported previously the updated Safe Movement Guidelines have been published on-line and are available from the information resources of the CacaoNet website (<http://www.cacaonet.org/>).

We intend to use the forthcoming COPAL conference in Cameroon in October to convene a meeting of the Cacao Safe Movement Working Group in order to review any changes that have occurred since the publication of this document.

Imports of New Material

It would be useful if you could let us know if there are any specific clones needed by your Institute that are not currently held at ICQC, R. We will then endeavour to make the necessary arrangements for them to be imported.

Feedback Please

We are always interested in receiving feedback from germplasm recipients at an early stage on the success rate in establishing imported material and any comments on how we can make our service better. We are also interested to hear whether clones provided by ICQC, R have been used in breeding trials, local evaluations or as planting material.

Enquiries

Enquires or further information on ICQC, R and how to receive germplasm should be directed to: Andrew Daymond. (a.j.daymond@reading.ac.uk).

Enquiries on ICGD should be directed to Chris Turnbull (c.j.turnbull@reading.ac.uk).

To Receive Budwood

Cocoa budwood is supplied free of charge. Please provide as much advanced warning of your requirements as possible and send us an import permit *at least two weeks* before the date of shipment. This should state that you wish to import cocoa as budwood and any treatment of the budwood required (e.g. pesticide and/ or fungicide treatment, if applicable). Please fax the permit to: 00 44 118 378 7468 or send as an e-mail attachment.

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Acronyms and Abbreviations

ICG, T: International Cocoa Genebank, Trinidad
CRU: Cocoa Research Unit

