

International Cocoa Quarantine Centre, Reading (ICQC, R) Newsletter



Edition 07-3,
June 2007

Welcome to the third edition of the International Cocoa Quarantine Centre (ICQC, R) Newsletter, which is being distributed regularly in order to keep members of the cocoa community informed of developments at ICQC, R. In this issue, we report on the latest releases of accessions from quarantine, the availability of potentially disease resistant material at ICQC, R and measures to update the working procedures for the international movement of cocoa germplasm.

Releases from Quarantine

A total of 18 clones have been released from quarantine since the previous Newsletter and are now available for budwood export (Table 1). Four of these clones are from the CFC/ICCO/Bioversity Collection. The full list of clones available at ICQC, R can be found at the project website:

<http://www.icgd.reading.ac.uk/data/ruglist.doc>

Table 1: Recent releases of accessions from quarantine, which are now available for budwood export.

Clone	Reading Accession number	Donor Genebank
ARF 12	RUQ 1364	CATIE
ARF 22	RUQ 1366	CATIE
CC 222	RUQ 1207	CIRAD-CP
CCN 51**	RUQ 1347	INIAP
EBC 10/S-401	RUQ 1173	CIRAD-CP
EBC 6/S-401	RUQ 1208	CIRAD-CP
ICS 40	RUQ 1432	ICG, T
ICS 41	RUQ 1218	ICG, T
MATINA 1/7**	RUQ 1333	ICG, T
NA 26	RUQ 1230	ICG, T
NA 670	RUQ 1238	ICG, T
PA 194 [PER]	RUQ 966	ICG, T
SCA 10**	RUQ 1329	ICG, T
SILECIA 5 [ECU]**	RUQ 1394	INIAP
TARS 31	RUQ 1394	USDA-PR
TRD 109	RUQ 1234	ICG, T
TRD 44	RUQ 1235	ICG, T
WA 40	RUQ 1283	CIRAD-CP

**CFC/ICCO/Bioversity Collection

Availability of Clones with Potential Disease Resistance

A particular focus for us is to bring in material into ICQC, R that has been shown to have a degree of resistance to cocoa diseases. Over the past year a number of clones have been imported from the Cocoa Research Unit (CRU), Trinidad that have been screened for witches' broom disease resistance using the methods described by Umaharan *et al.* (2005)¹. This material is currently in quarantine, but in the meantime a number of the clones that have

Biscuit Cake Chocolate &
Confectionery Association



United States Department of Agriculture

been demonstrated to have a degree of resistance to witches' broom disease at CRU are already available at ICQC, R. These are summarised in Table 2.

A number of clones held in CATIE, Costa Rica have been shown to have some resistance to *Moniliophthora* (Phillips, personal com.). Two of these clones are available at ICQC, R for budwood distribution (see Table 3). Additional material that has some resistance to *Moniliophthora* is being transferred from CATIE and will become available upon completion of quarantine procedures.

Table 2: Clones with a level of resistance to witches' broom disease (screened at the Cocoa Research Unit, Trinidad) that are available for international distribution from ICQC, R (information supplied by David Butler, CRU).

Clone name	ICQC, R Accession number
AMAZ 12 [CHA]	RUQ 334
ICS 46	RUQ 938
IMC 55	RUQ 836
MAN 15/60 [BRA]	RUQ 87
PA 67 [PER]	RUQ 590
PA 169 [PER]	RUQ 915
PA 279 [PER]	RUQ 1119
PA 289 [PER]	RUQ 942
PA 303 [PER]	RUQ 1372
POUND 16/B [POU]	RUQ 804
UF 667	RUQ 346

Table 3: Clones with a level of resistance to *Moniliophthora* (screened at CATIE, Costa Rica) that are available for international distribution from ICQC, R (Information supplied by Wilbert Phillips, CATIE).

Clone name	ICQC, R Accession number
ICS 95	RUQ 1144
PA 169 [PER]	RUQ 915

Updating the Working Procedures for the International Movement of Cocoa Germplasm

As part of the *CacaoNet* initiative, a Working Group of experts, coordinated by Paul Hadley, is in the process of revising and updating the FAO/Bioversity (previously IPGRI) Technical Guidelines for the Safe Movement of Cocoa Germplasm. This initiative is in response to the fact that a number of changes have occurred since the

guidelines were last updated in 2000; the distribution and prevalence of particular pest and disease problems have changed and technologies for moving plant material and disease detection have been improved. It is anticipated that the new guidelines will be available by the end of the year.

To Receive Budwood

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 8160 or send as an e-mail attachment.

Feedback on Establishment Rates

We would be grateful if germplasm recipients could provide feedback on the establishment rate of clones received from ICQC, R. This allows us monitor the international movement of germplasm and to report this information back to the original donor genebanks.

Enquires

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

Funding

The International Cocoa Quarantine Centre is funded by the Biscuit, Cake, Chocolate and Confectionery Association (BCCCA) and the United States Department of Agriculture (USDA) with additional funding from the Common Fund for Commodities (CFC).

¹Umaharan, R., Thévenin, J-M., Holder, A. and Bholia, J. (2005). Evaluation of cocoa germplasm for resistance to witches' broom disease. Pages 44-47 in: Annual Report 2004. St. Augustine, Trinidad and Tobago: Cocoa Research Unit, The University of the West Indies.