

**Summary Minutes of 3rd PCGIN Management Meeting
at Nickerson-Advanta, Docking, Norfolk on 6th December 2006**

Present:

JIC	Noel Ellis
JIC	Claire Domoney
JIC	Mike Ambrose
Nickerson-Advanta	Keith Fox (Host)
Nickerson-Advanta	Simon Berry
PGRO	Anthony Biddle
PGRO	Barrie Smith
NIAB	Jane Thomas
NIAB	Haidee Philpott
NIAB	Simon Kightley
NIAB	Donal O'Sullivan
Birds Eye	Milika Buurman
Unilever	Frances Bligh
JIC	Mary Wade

Chair:

Noel Ellis (JIC)

Noel Ellis welcomed everyone to the meeting and thanked Keith Fox for hosting the meeting.

The following areas were discussed:

1. Plots for 2007 (changes of lines, seed availability from 2006)
2. Disease testing at NIAB
3. *Vicia* germplasm & crosses
4. Crosses of chosen parents
5. New mutants and crosses (Stiff straw & blb)
6. Markers & web-site access
7. Seed quality traits & crosses
8. General review of progress/problems by objective and potential changes to plans
9. AOB

1. Plots for 2007 (changes of lines, seed availability from 2006)

Mike Ambrose reported:

Analysis of the plot data is not yet completed especially for disease resistance. Plenty of seed has been collected – over 1 kg so there is enough for 3 sites but JT and AB have also got plenty for 2007. The Plan for next season is to include *Vicia faba* lines some of which are from Australia.

2. Disease testing at NIAB

Jane Thomas reported:

Downy Mildew and *Mycosphaerella* have been tested at NIAB.

Anthony Biddle reported:

Foot and Root rot testing at PGRO has been performed and analysis continuing.

MA has a list of Australian pedigree lines and will circulate by end of the week. They have provided Fiesta, a recommended variety. (These lines are not all from one breeding site).

All agreed a meeting to be arranged at the end of January - after MA given out a report of results.

3. Vicia germplasm & crosses

Noel Ellis reported:

The role of faba bean in both the food and feed sector was discussed, and it was generally recognised that there is a need to get hold of a range of UK cultivars (+ some non UK) in order to look at patterns of cultivars and growth characteristics.

4. New Mutants and crosses (Stiff straw & Bulbous base)

MA reported that crosses have been made recently, involving the stiff straw line identified in the plot trials (3 sites) and the fast-neutron blb mutant; in both cases, crosses have been made with JIC parent test lines. F₁ seed has taken.

5. Markers & web-site access

Noel Ellis reported:

SB queried access to markers.

NE – put basic maps on web (these were acknowledged as needing more work).

Large numbers of markers are available and need to be collated. Preparing a list with respect to sequences is starting at JIC. Also a set of microsatellite primers is available. Large set of primers available from Hungary (not public on web) but available to PCGIN through GL-TTP.

6. Crosses of chosen parents

Noel Ellis reported:

The selected pea lines (Brutus, Enigma and Kahuna) – with target traits and measured genetic diversity – have been crossed and F₂ seeds are now available. The parents are diverse for both trait characters and genetic markers and had been selected in consultations involving NIAB, JIC, Unilever and Advanta. Also a similar exercise is going ahead with vining type material from FB – planted and to be sampled.

7. Seed quality traits & Crosses

Claire Domoney reported:

Traits were identified from discussions with animal feed companies and producers, as discussed in the annual report '06 and at stakeholders' meetings. Targets for animal feed are the protease inhibitor proteins, for which promising mutants have been identified by TILLING. For food use, bleaching was identified as a major problem affecting colour stability for a range of end-uses: marrowfats, canning, and vining, where 'blondes' are occasionally observed. Candidate genes for colour stability have been identified.

8. General Review of Progress/Problems by Objective and Potential changes to Plans

Noel Ellis reported:

Review of the progress against the S&T outcome.

List of objectives:

Month 22 – meetings done.

Obj. 1: Communication.

NE asked the opinions and usefulness of stakeholders meeting at PGRO. It was generally considered that refocusing the stakeholder meeting on discussion of outcomes rather than project content would be useful.

Obj 2: Phenotyping

Up to date with target.

Obj 3: Genotyping

NE – collated NIAB datasets and made crosses.

Obj 4: Reverse Genetics

NE – Some of this work had been completed while the PCGIN negotiations were ongoing. CD reported on TILLING re Obj. 6 – this is less engaged with stakeholders and more genetic but has the potential to provide novel material for breeders.

Obj 5: Maps by month 24 – not yet completed. The issue of faba bean maps was discussed and plans to develop a UK cultivar mapping population initiated.

Obj. 6: Quality Traits – on track.

9. AOB:

- Next meeting should be arranged for the end of January – selection of lines
- TTP survey forms – request to NIAB, PGRO, Unilever/Birds Eye to provide TTP with what information they can. TTP will use the information to organise a meeting in April re: breeders target, markers, etc.

The full minutes are available on request