

**MBGP Steering Committee**  
**1/10/2006 Crucifer Genetics Workshop, WICC, Wageningen, NL.**

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Apologies: A. Paterson; B.Weisshaar

Notes of previous meeting (Jan 2006) are available at  
<http://www.brassica.info/meetings.htm>

**1. *B. rapa* sequencing: chromosome assignment as of 1/10/06**

R3 and R9 being sequenced by Korea.

R7 Australia commenced

R1 and R8 assigned to UK and China (Chinese funding approved, UK awaiting decision)

R6 USA (application submitted Oct 2006)

R2 and R10 assigned to Canada

*Other contributions:*

Netherlands: possible submission as part of a new programme (G. Bonemma)

France: to submit proposal March 2007 to sequence 250 BACS as part of their National programme (MR)

India: unknown status

**2. Update on progress of *B. rapa* sequencing**

- Both *B. rapa* libraries are now fully end sequenced and data from all laboratories submitted to GenBank/EMBL. 200,553 end sequences are now in GenBank/EMBL
- SnapShot high resolution fingerprinting by NIAB Korea, being carried out on 100,000 clones, will be finished Sept 2006. A report on this will be submitted at PAG in January 2007. Data will be released in FPC format.
- 500 Phase 2 BAC sequences have either been submitted or are in progress. The lists of these and their status are available at [http://www.brassica-rapa.org/brgp\\_main/jsp/public\\_seq.jsp](http://www.brassica-rapa.org/brgp_main/jsp/public_seq.jsp). 200 have been completed and are submitted to Genbank.
- Estimated dates for completion:
  - R3 end 2007
  - R9 end 2008
  - R7 end 2007

**3. *B. rapa* linkage group assignment**

- 390 of the seed BACs have been genetically mapped (JWF3 and/or CKDH populations). 250 by SSR; 50 RFLP; 20 CAPS; 70 Ctg
- Screening carried out initially in JWF3p then sent to YPL (CNU, Korea) for mapping in CKDH. DNA from JWF3p is available - will be sent to DE (AgVic, Australia) asap. Information on mapping genotype strings will be made available to individual labs through personal communication. Publication aimed to be finished by end of year then full release.
- SSRs from 'Suwabe' map have been used to identify and associate *B. rapa* linkage maps
- Further markers to be assigned by AAFC Saskatoon to JW map to help confirm any ambiguities in linkage group assignment.

**4. EST update**

In addition to the approx 120,000 Brassica ESTs currently in Genbank:

- NRC (PBI) in Canada has undertaken to release all its 250,000+ ESTs by June 30 2007. 30,000 already deposited
- AAFC are also prepared to release to this timescale.
- The NIAB group in Korea are also now amenable to releasing their *B. rapa* ESTs in a similar time-frame and under equivalent conditions (embargo until June 2007).
- The AgVic Australia group will also deposit 20,000 ESTs in this timeframe.

**5. Brassica micro-arrays**

• **Update on Affymetrix Brassica GeneChip (R).**

Discussions led to decision to delay design until EST data from NRC Canada and Korea becomes available - this would greatly increase gene coverage. The planned release date would be now be June 2007, dependent upon confirmation from Affymetrix.

**Other arrays**

Nimblegen chip 23K array now available from Korea  
- contact Myung-Ho Lim (NIAB, Korea)  
e-mail: [mlim312@rda.go.kr](mailto:mlim312@rda.go.kr) (Tel : +82-31-299-1675)

AAFC 1 5K double spotted oligo array available

NRC 10K cDNA array will be released when ESTs are (July 2007)

AAFC and NRC are in discussion on production of CombiMatrix oligo array

**6. MBGP TILLING Consortium**

- Lars Ostergaard (JIC, Norwich UK) is leading this consortium with a sub-committee, and has collated information from different groups worldwide. (Table below)
- Discussion to be held at PAG after MBGP meeting to discuss any potential difficulties creation of a TILLING network may present. This will include discussion of reciprocal access charges from non-members, balance of private versus public, *etc.* Michel Renard suggested that maybe too many *B. napus* populations being made as number of lines required small due to mutational load. Circulate report on population size required.

**7. Diversity sets**

*B. oleracea*, C genome and *B. napus* sets are well under way (WHRI).  
*B. rapa* design to be circulated for comment by GK G.Bon and XW - aiming for 200 lines.

**8. Informatics and Data Standards**

A sub-committee of MBGP was initiated led by Dave Edwards (Agvic, Australia). A brief initial meeting was established in Wageningen with the aim to provide a means to harmonise data sources, and provide clear minimal sets of information, especially relating to the *B. rapa* sequencing project. It was agreed that regular summary spreadsheets of current sequencing status would be made available and posted on <http://www.brassica.info/meetings.htm>.

**9. Next meeting**

Sun Jan 14th 2007, PAG San Diego - room to be announced. Also a meeting of *B. rapa* Sequencing Steering Group to be held after MBGP SC meeting, and meeting of MBGP TILLING consortium before or after the MBGP SC meeting.