

Minutes
Oilseed Rape Genetic Improvement Network Management Meeting
Friday 25th February 2022 (month 49, M76)

Zoom meeting

Meeting ID: 933 6847 7709

Passcode: 289924

9:00 Meeting starts

Present:

ADAS: Kate Storer (**KS**)

AHDB Dhan Bandari (**DB**)

DEFRA: Helen Riordan (**HR**)

Elsoms: Mark Nightingale (**MN**)

NIAB: Tom Wood (**TW**)

RRes: Fred Beaudoin (**FB**), Jon West (**JW**)

UoH: Bruce Fitt (**BF**), Yongju Huang (**YH**)

UoW Graham Teakle (**GT**)

UoY: Ian Bancroft (**IB**), Lenka Havlickova (**LH**),

Apologies: UoR: John Hammond (**JH**), Rachel Wells (**RW**) Neil Graham (**NG**)

Organiser: **IB** (UoY), **LH** (UoY)

Chair: **IB**

Minutes: **LH**

Minutes and action points from previous meeting (Ian Bancroft)

IB opens the meeting, offers the apologies for the missing members. Everyone is happy with previous minutes circulated before the meeting.

AP19: everybody knows about the template (ongoing). **IB** reminding to send any new data to **LH**. - *ongoing*

AP42: All: any publications including old ones related to OREGIN funding should be sent to Jamie.

AP45&AP48: **IB** no info from Rachel, but should be sorted soon

AP49: **GT** list is nearly ready and will send it through after the meeting. **GT** asking if there are any GMO? **IB** -:there are no restoters but material wasn't checked for other GM.

AP50: **IB** thanked for all reports sent to him

AP51 –**LH** to contact **NGI**

AP52 – dialogue between **IB** and **GM**, they have sent all F1 hybrid material. Currently growing in the glasshouse and will be scored for heterosis and expression. Now waiting for new contact because **GM** is leaving Limagrain.

AP53 – done

AP54: Meeting set up for 25th February

Project management and administrative matters (Ian Bancroft)

IB – between contacts with Limagrain, waiting for info who is taking over.

Updates on work programme OREGIN 5

GIN Activity 1 – Stakeholder network

WP1. Maintain & expand interactions between UK stakeholders and academic researchers

WP1.1 Direct interactions between stakeholders and academic project partners. Activity throughout; Milestones 1, 5, 15, 20, 33, 38, 56, 62, 76, 81, 87 (Ian Bancroft)

IB: Nothing to report during the last three months period.

WP1.2 Facilitated interactions between stakeholders and the wider academic community. Activity throughout; Milestones 3, 9, 17, 27, 36, 49, 59, 69, 78, 86 (Ian Bancroft, Lenka Havlickova, Georgia Mitroussia)

IB: Nothing to report during the last three months period.

GIN Activity 2 – Genetic tools and resources to address challenges

WP2. Provide physical resources to underpin rapeseed breeding

WP2.1 Maintain and make available for cost-recovered distribution core pathogen sets. Activity throughout; Milestone 13, 31, 54, 74, 91 (Bruce Fitt/Yongju)

JY – 13 new isolates *L. maculans* obtained from OREGIN 2020/2021 field experiment. Seven *L. maculans* isolates selected and sub-cultured for whole genome sequencing. Also 15 *L. biglobosa* isolates selected for screening for the presence of mycovirus (it's affecting pathogenicity). 7 *L. maculans* isolates provided to industry partner for screening for host resistance. *P. brassicace* – 10 new isolates obtained from OREGIN 2020/2021 field experiment and 13 isolates were selected for sequencing.

DB – what microviruses are?

JY – explained that microvirus can increase or decrease the pathogenicity of fungi

BF – we have also screened brassica isolates without finding microviruses. In general it's RNA virus enhancing pathogenicity of *L. biglobosa*.

WP2.2 Maintain and make available for cost-recovered distribution *B. napus* DFFS lines. Activity throughout; Milestones 14, 23, 32, 55, 75, 92 (Graham Teakle)

GT – 25 accessions WOSR growing and will sow around 17 SpOSR in couple of weeks. One small and one big request – will report the numbers to Ian.

WP2.3 Amplify panel of reference *B. napus* varieties for trialling. Activity in months 9-44; Milestones 21, 40, 63 (Neil Graham)

IB – growing 250 lines to top up the lines where was not enough seeds for the field trial.

WP3. Develop novel pre-breeding material for trait assessment

WP3.1 Agree target traits and genes 2 (All) completed

WP3.2-3.4 Develop pre-breeding lines. Activity in months 3-44; Milestones 6+7+8, 24+25+26, 41+42+43, 45+46+47, 64+65+66 (Lenka Havlickova)

LH – no much change for last three months. Pre-breeding material sent to UoN for multiplication. The restorer material is lost – the restorer plants never produced seeds. Now only last option we are considering is to re-sequenced two other candidate restorer plants which didn't show change in size of radish introgression by DNAseq (but was identified via PCR markers).

WP3.5 Develop pre-breeding F₁ hybrids between winter and spring oilseed rape. Activity in months 1-32; Milestones 22, 39 (Georgia Mitroussia)

IB – covered as part of AP52.

WP4. Conduct pre-breeding assessment of novel winter oilseed rape lines

WP4.1 Establishment, management and phenotyping of field trials. Activity Q7-Q19; Milestones 29, 44, 51, 67, 71, 82 (Tom Wood, Mark Nightingale, John Hammond, Kate Storer)

TW – update on pathology trials 2021-22, established quite well, little bit of flea beetle damage and pigeondamage. Scoring: Phoma leaf spot assessments 16th Dec 2021, incidence 10 plants, severity 0-5 scale, early signs of light leaf spot.

GT – do you see difference between high and low N treatment? **IW** – not yet but will look into it.

KS – not much happened since we last spoke, but the trial is looking good

MN – all good, trouble with pigeons, plants growing, traits scored in autumn will send the table to **IB** & **LH**

WP4.2 Assessment of heterosis in spring x winter hybrid oilseed rape. Activity Q7-Q18; Milestone 35, 58, 61, 79 (Georgia Mitroussia)

WP4.3 Assessment of the impact of modified leaf wax composition in disease and pest interactions. Activity Q15-Q19; Milestone 83 (John West, Sam Cook)

JW – Sam apologies, but she will send her CBSF data and we will analyse them

WP4.4 Interpretation of trial data. Activity Q11 – Q19; Milestones 48, 68, 84

GIN Activity 3 – Develop and exploit opportunities for further research

WP5. Promote spin-off projects (all)

IB – noting to report for the last three months

GIN Activity 4 – Dissemination and knowledge exchange

WP6. Provide information resources to underpin rapeseed breeding

WP6.1 Provision of molecular data from current phase of OREGIN. Activity Q1-Q20; Milestones 10, 12, 18, 30, 53, 73, 89 (Bruce Fitt/Yongju)

WP6.2 Provision of trait data from current phase of OREGIN. Activity Q9-Q20; Milestones 49, 68, 86 (Bruce Fitt/Yongju)

JY - Oregin website updated on regular bases. New published paper has been added. Please contact Jamie to add any other paper related to OREGIN. Request from Australia etc. for pathogen collection.

Reporting to the authority

AOB

Date for next meeting

AP55: Doodle Poll for next meeting including INQoRO people in August