**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 **NGl**

**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***

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| **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 Mitrousia)

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

***GIN Activity 2 – Genetic tools and resources to address challenges***

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| **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.

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| **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 Mitrousia)

**IB** – covered as part of AP52.

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| **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 Mitrousia)

**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***

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| **WP5. Promote spin-off projects (all)** |

IB – noting to report for the last three months

***GIN Activity 4 – Dissemination and knowledge exchange***

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| **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.

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| **Reporting to the authority** |

**AOB**

**Date for next meeting**

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