

DELIVERING SUSTAINABLE WHEAT

MAY 2025



We are pleased to present the May 2025 edition of our newsletter. The main highlights from across DSW this month include:



[Equipping the next generation of female leaders in wheat research](#)



[Starship discovery reveals new frontiers of fungal genome evolution](#)



[Sugar signalling applications could boost wheat yields by up to 12%](#)

ACTIVITIES, ACHIEVEMENTS & AWARDS

This year Monogram was hosted at Prifysgol Aberystwyth University 7th-10th April. We heard some brilliant talks and fantastic posters presented by DSW members including MECEA Winners [Isabel Faci-Gomez](#) and [Katie Long](#). Congratulations to poster award winners Adam Giegier, Anisa Blower, Becca Testa, Bernice Waweru, Jack Walker & Miguel Gonzalez-Sanchez - [LinkedIn](#).

RECENT PUBLICATIONS

[Burrows et al. 2025](#). Partial redundancy buffers deleterious effects of mutating *DNA methyltransferase 1-1 (MET1-1)* in polyploid wheat.

[Grey et al. 2025](#). Improved Extraction Methods to Isolate High Molecular Weight DNA From Magnaporthaceae and Other Grass Root Fungi for Long-Read Whole Genome Sequencing.

[Griffiths et al. \(2025\)](#). Membrane-permeable trehalose 6-phosphate precursor spray increases wheat yields in field trials.

[Hill et al. 2025](#). Evolutionary genomics reveals variation in structure and genetic content implicated in virulence and lifestyle in the genus *Gaeumannomyces*.

[Hill et al. 2025](#). Starship giant transposable elements cluster by host taxonomy using *k*-mer-based phylogenetics .

[Phillips et al. 2025](#). *GIBBERELLIN 3-OXIDASE* genes regulate height and grain size in bread wheat .

[Raza et al. 2025](#). Future crop breeding needs to consider future soils.

[Rickard et al. 2025](#). Field plants strategically regulate water uptake from different soil depths by spatiotemporally adjusting their radial root hydraulic conductivity.

DATES FOR YOUR DIARY

May-June 2025

22 May 2025

3 June 2025

5 June 2025

11-12 June 2025

1-3 July 2025

8 July 2025

[NIAB Open Days](#)

[DSW Online Talk—Annis Richardson](#)

[DSW Online Talk—Christophe Lambing](#)

[DSW Mini-symposium](#)

[Cereals \(Leadenham, Lincs\)](#)

[Breeders Toolkit trial site visits](#)

[DSW Online Talk—Anna Backhaus](#)

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