

GxExM Symposium

A symposium to share understanding and approaches to predict crop performance, accounting for Genotype by Environment by Management (GxExM) Interactions: Considering Breeder, Agronomist and Farmer Perspectives



Thursday 3 and Friday 4
November, 2022



9:00am - 5:00pm



The University of
Queensland, St Lucia,
Brisbane and online



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EVENT INFORMATION

Following on from a series of project-focused meetings, a working group self-organized with the objective to host a two-day symposium designed to encourage an open and shared understanding of the importance of GxExM interactions for improving the sustainability of cropping system productivity.

The symposium will be hosted in a hybrid mode, with a combination of limited on-site participation and free online participation.

The symposium directly follows the [TropAg 2022](#) meeting, also in Brisbane. The presentations and discussions during the symposium will be recorded (whenever permission is granted) and made available online, until the end of 2022, to improve accessibility for all

participants to the contents of the meeting, wherever time zone differences limit live and real-time participation.

The organizers encourage anyone with an interest in any topics relevant to the investigation of GxExM interactions to consider participating.

If you have any questions about the format of the meeting or your potential for involvement, please [contact Mark Cooper](#).

REGISTER TO ATTEND

bit.ly/PS-GEM

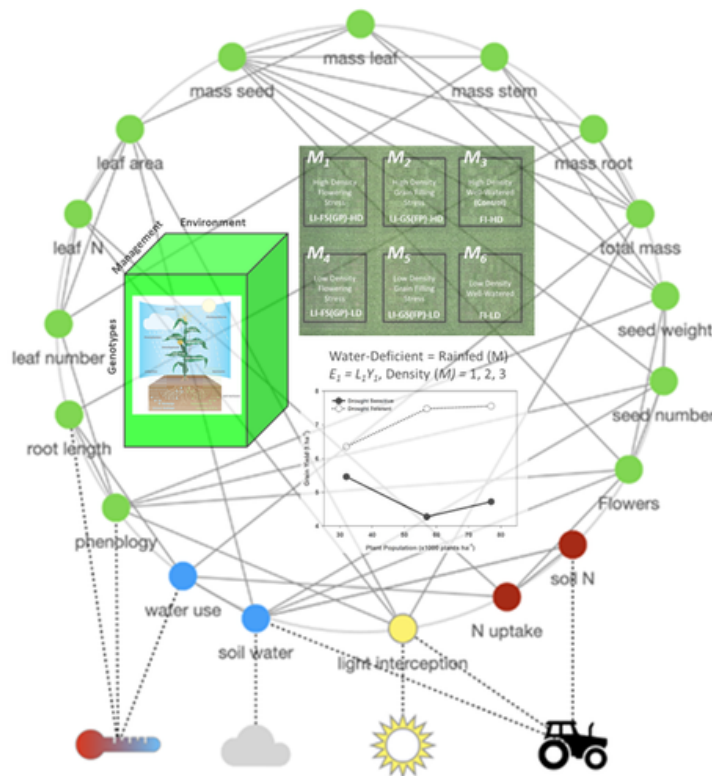
GxExM BACKGROUND

The potential importance of GxExM interactions has been considered for many performance properties of agricultural systems. There are complex and growing pressures acting upon the global crop systems on which we depend for our livelihoods.

Universally, significant yield gaps have been identified between potential and realised on-farm crop productivity for most crop systems. Further, the sustainability of the current and required levels of crop productivity to meet the expectations of future needs are continually questioned.

The challenges are diverse, complex and multi-faceted. Crop breeders seek to utilise available genetic resources to develop improved cultivars.

Crop agronomists seek to define agronomic management practices that will work for the improved cultivars.



Farmers seek to combine the improved cultivars with appropriate agronomic practices to achieve a target on-farm productivity while balancing short and long-term risks and rewards.

There have been and continue to be many calls for integrated efforts.

There are successful examples of integrated efforts between breeders, agronomists in partnership with farmers. A number of such efforts have emphasised the importance of considering the potential influences of GxExM interactions at multiple levels within the crop systems.

Local Organizers: Professor Mark Cooper, Professor Graeme Hammer

International Organizers: Professor Carlos Messina (University of Florida), Professor Fred van Eeuwijk (Wageningen University)

Supported by:

