



Finding a name for your new baby wheat gene

07 June 2023

Q&A session

Presenter: Scott Boden, Group Leader and ARC Future Fellow, University of Adelaide, Australia

The webinar recording is available on the IWGSC YouTube channel at: <https://youtu.be/OkARP5NPkcc>

Q: How to do nomenclature of peliotropic genes?

Timestamp: 48:55

Q: Can we use the gene naming style in GWAS QTL naming?

Timestamp: 50:00

Q: Do you have any additional suggestions to help the adoption of these guidelines?

Timestamp: 51:02

Q: Now a days a lot of publications are being reported on genome-wide identification. An usually gene names are being used based upon homology with model plants. If someone doesn't know the total number of genes and their sub-families in a specific gene family, what name should be used for a newly identified gene?

Timestamp: 52:30

Q: Congratulations for so great initiative and many thanks for your nice presentation. Do the WI plan to revise and give specific recommendations on some earlier cases of confuse naming? Are you interested on being noticed about particular examples that we may have found during our research?

Thanks for the kind words. Unfortunately, this would be too much work for any individual to complete, so we don't think it is possible. We recommend using your future papers to highlight cases where genes being named incorrectly or in multiple ways, particularly for genes that are important for your own research. Any correction should be driven by the community, rather than through the WI.

Q: Does guidelines for updating the wheat gene align with guideline used for naming other model plant organism such as Arabidopsis. ?

We did consult the guidelines for naming genes in rice and maize when drafting this update, and tried to make them as consistent as possible with these other species. In most cases, the guidelines are consistent with rice, maize has its own recommendations. Importantly, we had to consider historical nomenclature guidelines, and the complexity that comes with wheat having hexaploid, tetraploid and diploid species.

Q: IWGSC should consider about establishing a database for conversion of gene names according to these guidelines.

This could be something for IWGSC to consider, but I cannot speak on their behalf. One needs to consider how much work this would be, and it might be more appropriate for the community to sort it out themselves through publications.