



Cold Spring Harbor Laboratory

Doreen Ware, Ph.D.

USDA ARS

Adjunct Assistant Professor

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Dear Andrew and Alan,

I am writing this letter on behalf of the Gramene project for support of the continuation project on sorghum genome function and evolution that you and your colleagues are planning to submit to the NSF Plant Genome Research Program.

It is my understanding that you will be generating the following data sets:

(1) Photos and descriptive information for about 3200 M3 lines that will be used in TILLING. We will set up a system in which the photos are physically stored at your site and you send the URLs to the pictures, along with the trait terms, to Gramene. This way people will be able to search for traits at Gramene, get a report that includes the image (which is coming to them from your site), and then link to your site for more details. Your use of Gramene 'Trait Ontology' descriptors for these, to the degree possible, will facilitate integration of this information with other trait-related data in Gramene. It is anticipated that this resource will be brought on line in late 2011 and that updates will be warranted annually.

(2) Genome-wide large-scale SNP diversity data for a small sampling of sorghum genotypes, and locus-specific data for a few dozen additional genes across a diversity panel of about 400 genotypes. Your use of the GDPDM schema will simplify the incorporation of these data into the Gramene Genetic Diversity database. As you are aware Gramene currently host a diversity module for Sorghum. As part of this project you will be responsible for integrating your with the existing sorghum diversity data hosted at the site. Because we have been involved with the curation of diversity data and sequence data on a global scale we look forward to your results and placing them in the context of genomic data and the comparative framework Gramene provides.

We are interested in making all of this data available to the public via Gramene. As you know, Gramene already contains genetic maps as well as the Sorghum bicolor sequence resulting from your prior work. We also are happy to include the physical map from Sorghum currently available from your WebFPC site and look forward to your support for providing the curation resources to bring this into the Gramene set of resources.

We are pleased that your co-PI Alan Gingle, the curator of the Saccharinae-specific database that you have created and propose to expand on, will facilitate the data transfer, curation and integration with Gramene. Alan will be responsible for assuring the quality of the data and generation of copies, generating the file format requested by Gramene, and coordinating upload and curation with a Gramene staff member; and assuring that the integrity of the data is reproduced in the Gramene database, working with appropriate members of your group to make any corrections or modifications.

We will also be pleased for you to include a link to Gramene in the "Sorghum Portal" that you propose. Please be aware that we can only commit to serving the data for the length of the current Gramene grant that will be ending in October of 2011. If our grant is refunded we will be happy to continue to serve the data as long as funding for Gramene exists.

I wish you the best of luck with your submission.

Sincerely,

A handwritten signature in cursive script, reading "Doreen Ware". The ink is dark and the signature is fluid, with the first name and last name clearly distinguishable.

Doreen Ware