

FY22 Performance Progress Report

Due date: July 26, 2023

Cover Page

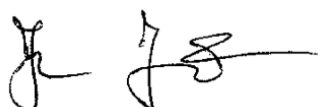
USDA-ARS Agreement ID:	N/A
USDA-ARS Agreement Title:	Database and Analysis Tools to Improve Data Management and Crossing Decision Support
Principle Investigator (PI):	Jean-Luc Jannink
Institution:	USDA-Agricultural Research Service
Institution UEI:	N/A
Fiscal Year:	2022
FY22 USDA-ARS Award Amount:	\$10,250
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Period of Performance:	May 1, 2022 - April 30, 2023
Reporting Period End Date:	April 30, 2023

USWBSI Individual Project(s)

USWBSI Research Category*	Project Title	ARS Award Amount
EC-HQ	USWBSI Networking and Facilitation Office	\$10,250
FY22 Total ARS Award Amount		\$10,250

I am submitting this report as an: Annual Report

I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.



Principal Investigator Signature

August 10th 2023
Date Report Submitted

† BAR-CP – Barley Coordinated Project
 DUR-CP – Durum Coordinated Project
 EC-HQ – Executive Committee-Headquarters
 FST-R – Food Safety & Toxicology (Research)
 FST-S – Food Safety & Toxicology (Service)
 GDER – Gene Discovery & Engineering Resistance
 HWW-CP – Hard Winter Wheat Coordinated Project

MGMT – FHB Management
 MGMT-IM – FHB Management – Integrated Management Coordinated Project
 PBG – Pathogen Biology & Genetics
 TSCI – Transformational Science
 VDHR – Variety Development & Uniform Nurseries
 NWW – Northern Soft Winter Wheat Region
 SPR – Spring Wheat Region
 SWW – Southern Soft Red Winter Wheat Region

Project 1: USWBSI Networking and Facilitation Office

1. What are the major goals and objectives of the research project?

Curate and upload to The Triticeae Toolbox (T3) data from wheat and barley trials in which FHB was measured.

2. What was accomplished under these goals or objectives? (For each major goal/objective, address these three items below.)

a) What were the major activities?

The Research Support Specialist contacts wheat and barley breeders to help them format their data for upload to T3.

b) What were the significant results?

Barley:

T3 hosts data from the:

Western Regional Spring Barley Nursery

NABSEN

Winter Malting Barley Trials

We have a total of 342 trials in the database (trial = unique location x year combination).

However, we have not uploaded new data since 2021 and will need to contact the trial coordinators to organize getting that data. In addition, we should also find out if there are other trials whose data we should host.

Wheat:

T3 hosts data from the:

Five State Cooperative Nursery

Hard Winter Wheat Fusarium Head Blight Nursery

Regional Scab Nursery

Soft Red Winter Wheat Nursery

Soft White Winter Wheat Nursery

Winter Wheat Scab Nursery

We have a total of 632 trials in the database, spanning 1998 to 2022. Five of these trials are from 2022.

c) List key outcomes or other achievements.

None.

3. What opportunities for training and professional development has the project provided?

We continue to provide training to graduate students and other researchers in the use of T3. We participated in the Scab Forum in Tampa, FL in Dec. 2022. We organized a four-day training workshop for WheatCAP students in Feb. 2023. This workshop was delivered virtually and we should advertise it to all USWBSI participants as there is no limit on the number of participants. We participated in a WheatCAP workshop on Genomic prediction in small grains breeding in July 2023. That workshop was organized by Gina Brown Guedira.

4. How have the results been disseminated to communities of interest?

See above

Publications, Conference Papers, and Presentations

Please include a listing of all your publications/presentations about your FHB work that were a result of funding from your FY22 grant award. Only citations for publications published (submitted or accepted) or presentations presented during the **award period** should be included.

Did you publish/submit or present anything during this award period May 1, 2022 – April 30, 2023?

Yes, I've included the citation reference in listing(s) below.

No, I have nothing to report.

Journal publications as a result of FY22 award

List peer-reviewed articles or papers appearing in scientific, technical, or professional journals. Include any peer-reviewed publication in the periodically published proceedings of a scientific society, a conference, or the like.

Identify for each publication: Author(s); title; journal; volume: year; page numbers; status of publication (published [include DOI#]; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

Books or other non-periodical, one-time publications as a result of FY22 award

Report any book, monograph, dissertation, abstract, or the like published as or in a separate publication, rather than a periodical or series. Include any significant publication in the proceedings of a one-time conference or in the report of a one-time study, commission, or the like.

Identify for each one-time publication: Author(s); title; editor; title of collection, if applicable; bibliographic information; year; type of publication (book, thesis, or dissertation, other); status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

Other publications, conference papers and presentations as a result of FY22 award

Identify any other publications, conference papers and/or presentations not reported above. Specify the status of the publication.