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AG2PI AT PAG CONFERENCE

The AG2PI team will be participating at the upcoming Plant and Animal Genome (PAG) Conference, Jan. 13-18, in San Diego, California. Dr. Christopher Tuggle (AG2PI co-PI) will be presenting on AG2PI, “Visualizing the Road to Genome to Phenome in Agriculture” during the US National Animal Genome Research Program (NRSP8) Workshop on January 15. Dr. Brenda Murdoch (AG2PI co-PI) will give an additional talk on AG2PI during the NRSP8 workshop. If you are planning to attend PAG, we look forward to seeing you there!

Also at PAG, AG2PI partner organization Breeding Insight will be offering a workshop on “Lessons Learned when Integrating New Technologies into Breeding” on January 13.

SEED GRANTS

Large Seed “Coconut” Grant RFP

Don’t let the name fool you, these Seed Grant are for more than just coconuts, but the scale fits the metaphor! Awards will be up to \$250,000 for projects that advance AG2P science, particularly research that has applications to both crops and livestock.

The following topic areas have been identified by USDA as special topics of interest, proposals in these three areas are especially encouraged:

1. Develop tools and datasets that can be used across multiple crop species to advance genome engineering tools for integrated optimization of crop yield and livestock feed for improved animal reproduction and nutrition.
2. Mitigate environmental impacts from crop and livestock production.
3. Encourage development of root stocks that increase carbon capture and can support grain crop cover.

See RFP for additional topic areas and for more information on eligibility, *etc.*:
<https://www.ag2pi.org/seed-grants/coconut-seed-grant-2022-10-28/>

This opportunity closes January 6, 2023!

Rolling Seed Grants for Community Activities/Working Groups

We are excited to share a new opportunity for funding community activities. This new type of grant was created in response to community needs and inquiries about supporting single events or working groups that do not otherwise meet the requirements of a regular “round” seed grant. Eligible events include conferences, workshops, educational programming, and transdisciplinary community gatherings.

In particular, AG2PI is seeking proposals for working groups that will organize around an issue that affects both plant and animal sciences. Examples include data management, data standards, cross-kingdom techniques, technology development, training & recruiting a diverse workforce, and AI in agriculture. These new grants will be awarded on a rolling basis. See details at our website: <https://www.ag2pi.org/seed-grants/>.

Did you know? Funded seed grant projects can be viewed on the AG2PI website, including project narratives and deliverables, like publications, data sets, and recordings of workshops. Visit <https://www.ag2pi.org/resources/ag2pi-funded-seed-grants/> for details.

CONCEPT PAPERS TO USDA NIFA AND COMMUNITY

Now available! Paper describing findings from 2020 and 2021 community surveys (DOI: [10.31219/osf.io/p89vk](https://doi.org/10.31219/osf.io/p89vk)).

Coming soon! Paper defining eight areas of agricultural genome to phenome research and infrastructure that should be addressed to move the entire field forward.

UPCOMING EVENTS

Save the Date!

AG2PI Conference: *Mapping the Future of Agricultural Genome to Phenome*

Kansas City, MO

June 15-16, 2023

This event will include talks by community thought leaders, stakeholder roundtables, small group discussions, and networking opportunities, all designed to map the future of AG2P research and develop recommendations concerning the research investments needed to achieve that future. These recommendations have been requested by USDA-NIFA.

No Field Day in December or January. Next Field Day will be February 8 (*note the new date*, which is meant to avoid overlapping with popular conferences). Topic is yet to be determined. Check the AG2PI website for details, once available.

Community Events: List your event with us! Submit information about a workshop, webinar, fellowship, or other event so we may share it on the AG2PI [Community Events](#) webpage. Complete the [submission form here](#).

UIUC Workshop: Applied Quantitative Genetics for Plant Breeders: University of Illinois at Urbana-Champaign is holding a two-day workshop (January 9-10, 2023) that will describe how to apply the principles and techniques of quantitative genetics to improve breeding efficiency. Topics covered will include Selection theory, Genomic Selection, GWAS, MAS, and how to put it all together in a breeding program. The workshop will be a combination of lectures and hands-on exercises, via Zoom or in person. Fill out this application form to apply:

<https://docs.google.com/forms/d/1CHGoNITnQhna1AP4rjXYdj5g82cs1mN-EoNAGbGiJkw/edit>.

PAST EVENTS

Recordings of previous field days, workshops, and conferences are accessible on the AG2PI website and YouTube channel. We encourage continuing the conversations begun in our field days by joining our Slack Workspace where each field day has its own channel. In Slack, you can review questions and answers discussed during the live session and ask your own questions through the field day channel.

Stay Connected!

AG2PI encourages community building and is committed to helping forge new connections between and among members and institutional partners. Follow us on Twitter ([@AG2PI](#)), LinkedIn ([AG2PI](#)) and YouTube ([@ag2pi89](#)).

The Agriculture Genome to Phenome Initiative (AG2PI) is a three-year project funded by the U.S. Department of Agriculture's (USDA) National Institute of Food and Agriculture (NIFA) awards 2020-70412-32615 and 2021-70412-35233 to build communities that address the challenges of genome to phenome (G2P) research across crops and livestock. AG2PI partners include Iowa State University, University of Nebraska, University of Arizona, University of Idaho, and the Iowa Corn Promotion Board.

Contact AG2PI: <https://www.ag2pi.org/contact-us/>
Social Media: Twitter [@AG2PI](#) [YouTube](#) [LinkedIn](#)