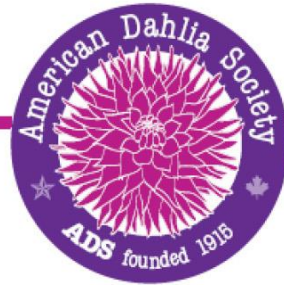


# The American Dahlia Society

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## ADS Genome Project Update 7/12/2022

Submitted by Zach Meharg

### Phylogeny:

I have collected herbarium sheets for 27 species of dahlias from Northern Illinois University, UT Austin, and Arizona State University. Of the 27 species collected, 3 of them are the isotype of the species (the plants used to describe the making of a new species) *D. mollis*, *D. atropurpurea*, and *D. parvibracteata*. Along with seeds collected by Dr. Walbot I currently have 28 dahlia species in hand that I am going to begin extracting DNA from. I am planning on reaching out to dahlia researchers in Mexico to try and source tissue for the 4 new dahlia species that have been recently described within the past 8 years, *D. mixtenca*, *D. wixarika*, *D. tamaulipana*, and *D. calzada*. With the hopes of having a 1st draft of the phylogeny to present at the ADS National Show in September.

Side note: I am still trying to get living plants for as many species as I can, do you think there are any other dahlia species that members of the ADS have access to? Currently I have seeds or living plants for: *D. apiculata* (living plant), *D. brevis* (seed), *D. coccinea* (seed), *D. campanulata* (seed), *D. mollis* (seed), *D. sorensenii* (seed), *D. pugana* (seed), *D. rudis* (seed), *D. imperialis* (live plant), and *D. rupicola* (live plant, but not looking very good).

### Genome:

I am currently growing 3 clones of Edna C in the greenhouse at HudsonAlpha, the plants have almost reached a size I feel comfortable collecting leaf tissue from for DNA extractions. I plan on doing these extractions no later than the end of July.