

Do flowers of a color bloom together?

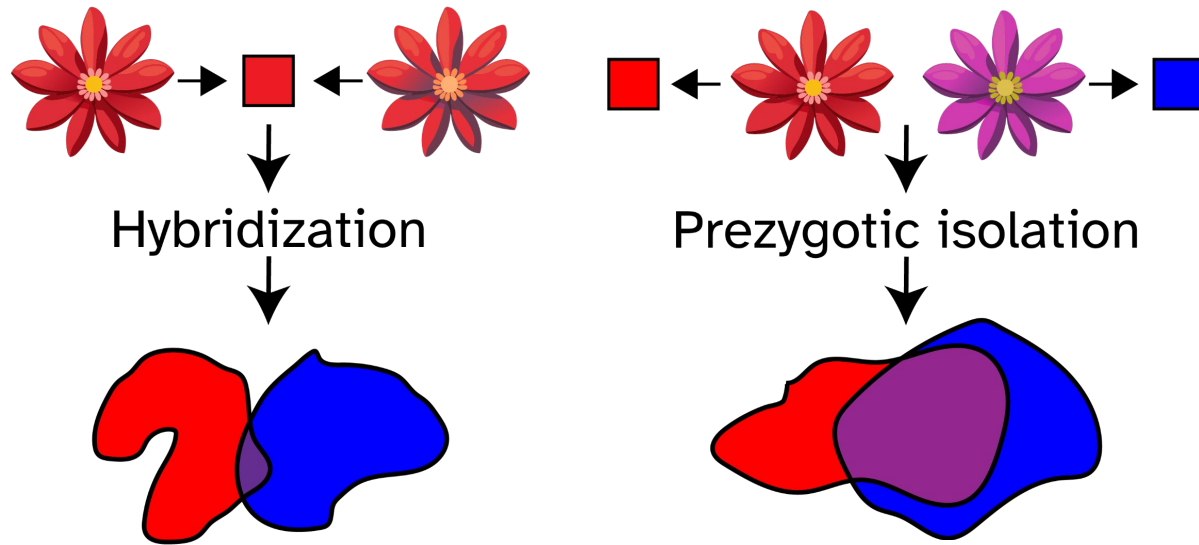
Exploring emergent patterns and drivers of floral color in Eastern North American wildflowers

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Co-occurrence may be impacted by floral color differentiation, thus shaping emergent floral color patterns, through myriad processes.

Close relatives



Overlap

Color similarity

All species

Reproductive interference?

Phylogenetic relatedness

Emergent patterns???

Hybridization

Prezygotic isolation

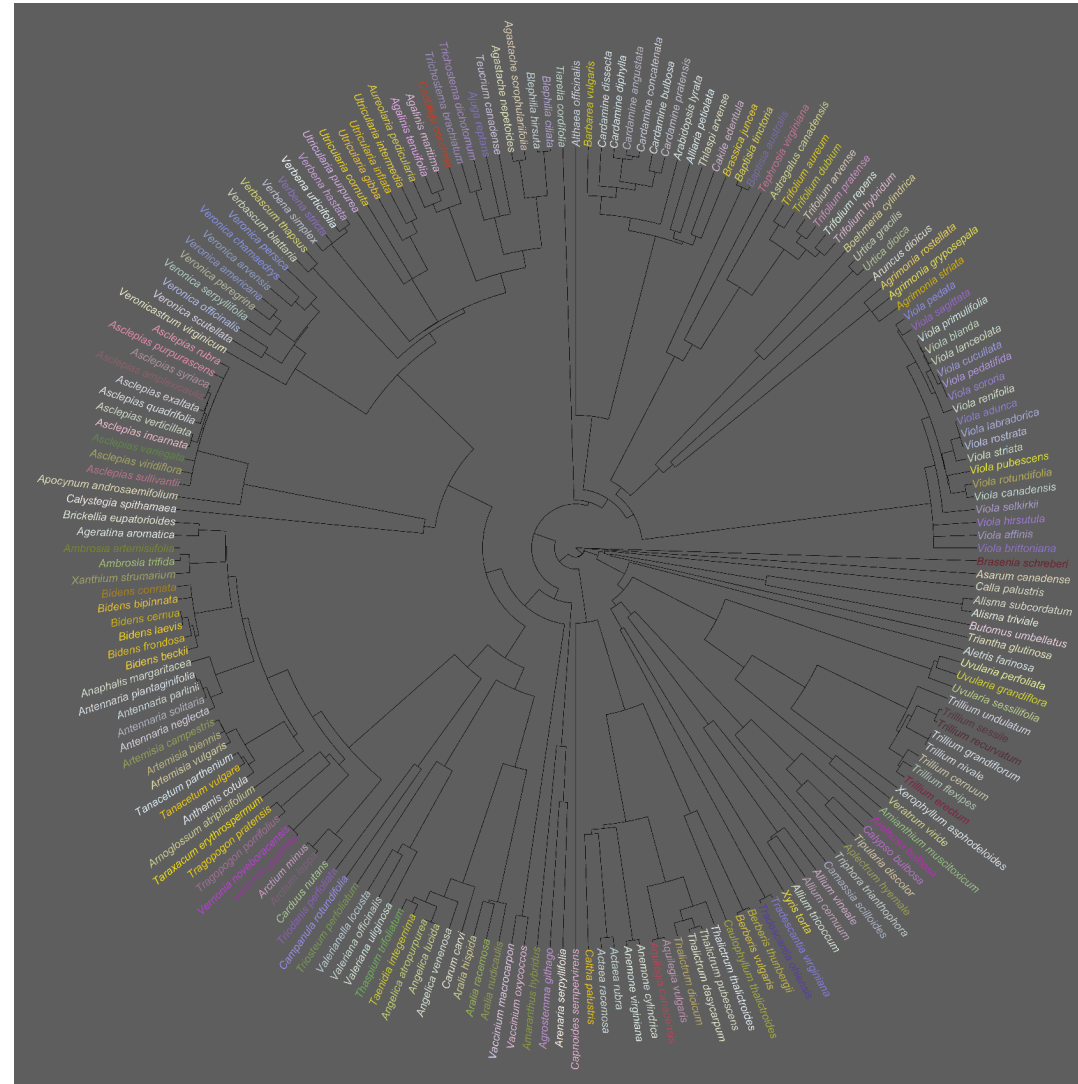
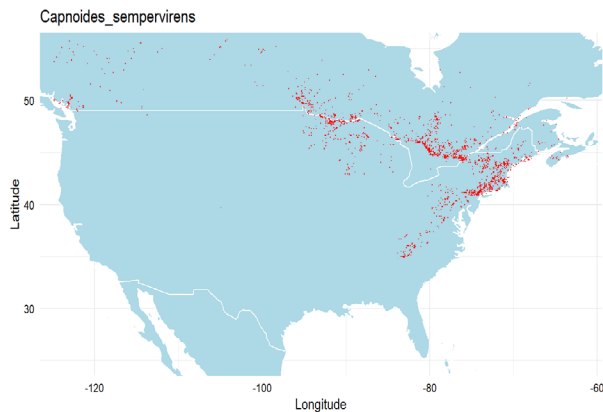
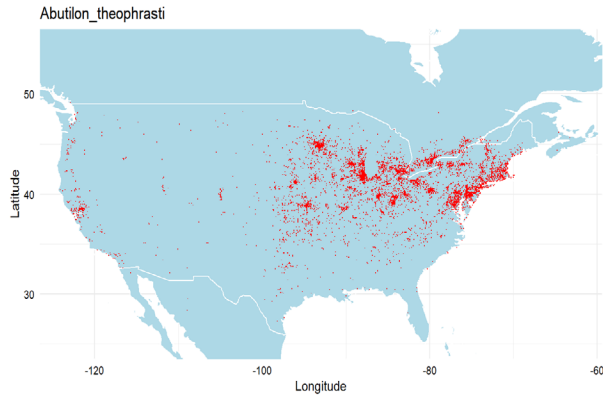
Competition for resources

Competition for pollinators?

We gathered data on range, phenology, phylogeny, and floral color for common Eastern North American wildflower species.

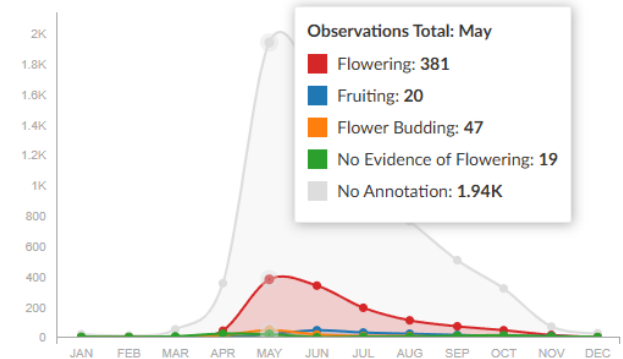
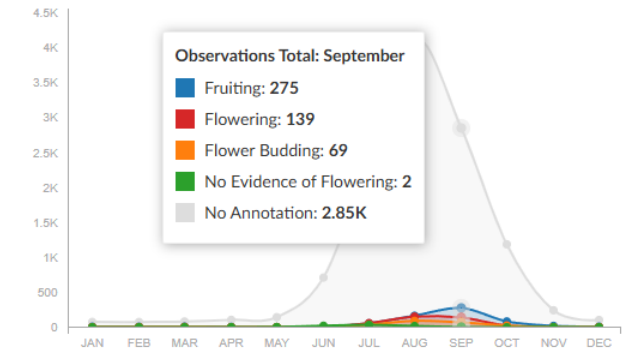
Phylogeny from Smith & Brown, 2018; Color from iNaturalist

10km² cells w/
GBIF presence data



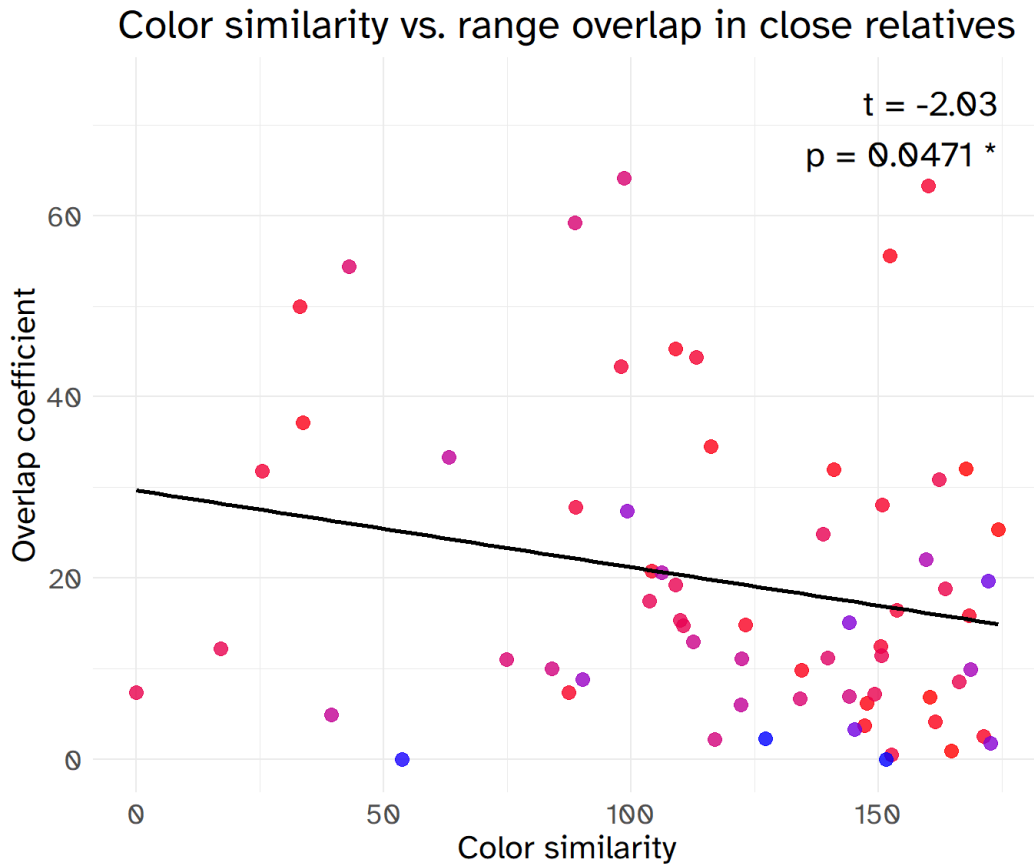
899 species in final data

Phenology from iNaturalist

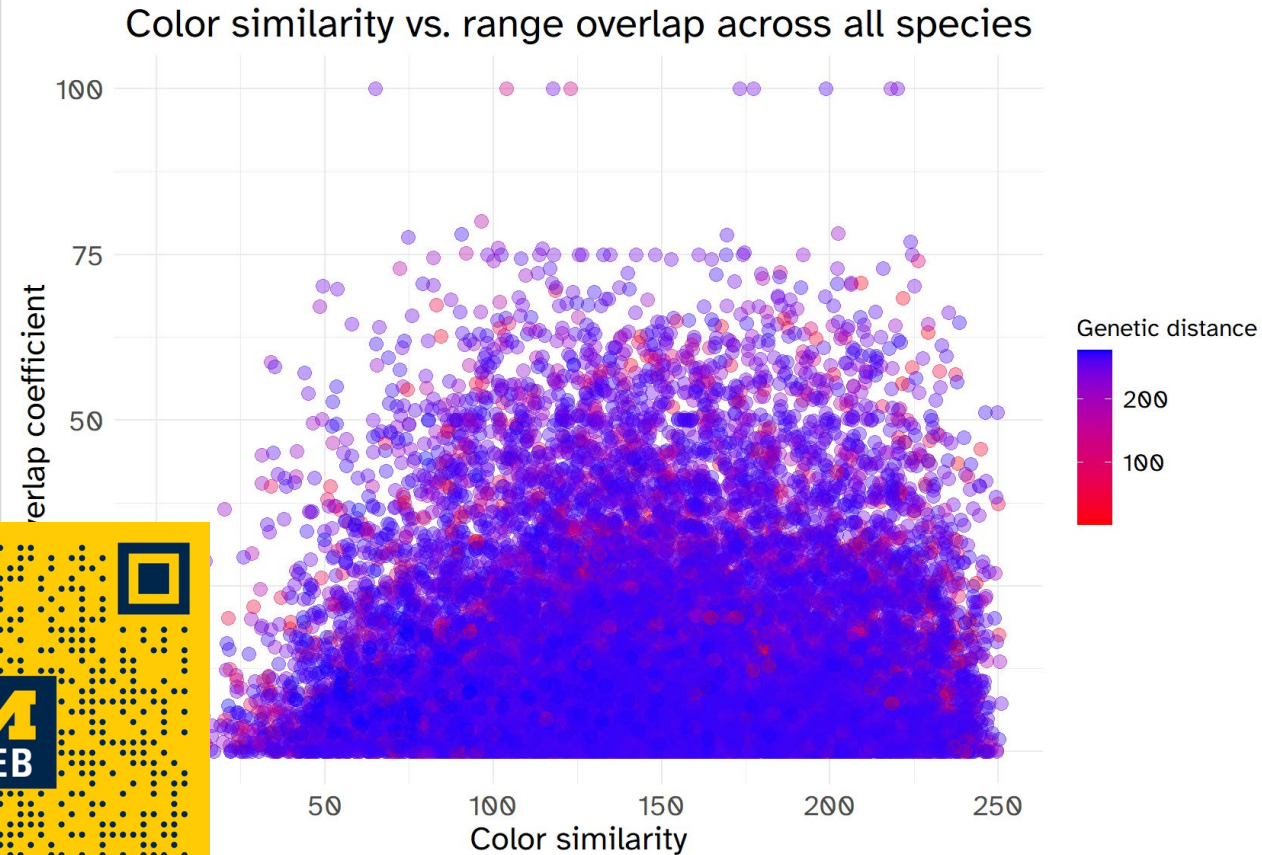


Color similarity is negatively correlated with overlap in close relatives, but the pattern breaks down across phylogenetic scales.

In close relatives:



Across all species:



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