

Masting associated functional traits and seed traits

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Question: What are some functional traits and seed traits associated with masting? How will that potentially change the reproduction success under the climate change context?

1 Traits selection

There are many hypotheses on mast seeding, including predator satiation, pollination efficiency, environmental prediction, weather cues and resource budget model. We could select traits that help them fit the hypothesis.

Predator satiation:

Size size
Seed nutrient content
Dispersal potential
Seed coat permeability
Seasonality of seed release
Seed defences

Pollination efficiency:

Flowering duration

Environmental prediction:

Seed nutrient content
Seed coat thickness

Resource matching, resource budget:

Longevity
Dormancy
Leaf phenology
leaf longevity

weather cues:

2 Literature Reviews

2.1 Overview

Give Context and brief argument for the need for progress in this research area and what you propose to do, in simple, non-technical terms (for the benefit of non-technical experts). Also briefly emphasize the impact and outcomes from this work in tangible terms, such as societal benefits

2.2 Annotated Bibliography

- fernandez2019nutrient
- journe2023evolution

- pearse2020biogeography
- qiu2023masting
- vacchiano2021natural