

Masting associated functional traits and seed traits

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Question: What are some functional traits and seed traits are 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

Pollinatoin 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 thus work in tangible terms, such as societal benefits

2.2 Annotated Bibliography

- fernandez2019nutrient
- journe2023evolution

- **pearse2020biogeography**
- **qiu2023masting**
- **vacchiano2021natural**