

Bilag 5

Projektbeskrivelse



Objective of project „Oppotunity“

Support in the EU the authorization of the CRISPR-CAS technology to increase the competitiveness and improve the sustainable cultivation of **starch potatoes** in Europe for the benefit of the farmers and the environment keeping most of the value creation in the value chain for reinvestment in the value chain.

Unite under an Agreement, starch potato farmers, potato starch industry, potato breeders, Universities & Institutions and NGO's to:

1. Support all efforts to make CRISPR CAS a none regulated technology (incl. no-labeling) in Europe and actively approach the decision makers in the EU
2. Create a new variety based on, for example Kuras with phytophthora (+....) resistance to proof the concept and create value immediately
3. Offer with this Agreement for the Parties a platform to develop new R&D cooperation's in the area of Gene Editing for starch potatoes

Time-line:

1. Aligned communication towards the E Commission and the relevant stakeholders regarding CRISPR-CAS and the importance of authorization for the potato starch industry from July 2022 onwards
2. Signature of a multi-party Agreement Oppotunity December 2022
3. Started gene editing to develop “SuperKuras” Q3 2023 (SuperKuras= Kuras+ Phytophthora resistance gene)
4. Have minitubers available of ~10 Events for Breeders and Industry for field trials in spring 2025
5. Individual companies can start the variety registration process for an event of “SuperKuras”

Funding

1. All lobbying/communication activities, “SuperKuras” development and the internal organization are funded by the parties
2. The “SuperKuras” minitubers are bought from the Service Provider at cost to grow the minitubers



What is in it for the main stakeholders?

- Farmers: new varieties with improved traits:
 - yield can grow
 - cost can be stabilized
 - environmental footprint can be improved
- Industry: more & better
 - more competitive raw material
 - improved or different ingredients (starches, proteins,...)
 - overall environmental footprint can be improved
- Breeders: an attractive market emerges:
 - smaller market segments become attractive as specific breeding cost can be reduced
 - shortened timelines
 - risk of failure can be reduced
 - potential to extend variety protection timelines
- Universities: interesting research targets
 - identify DNA - trait relations
 - better understand specific crop traits
- Tech companies: attractive market to serve breeders and Universities
- NGO's: a technology with little fear potential that can partly help to overcome sustainability challenges