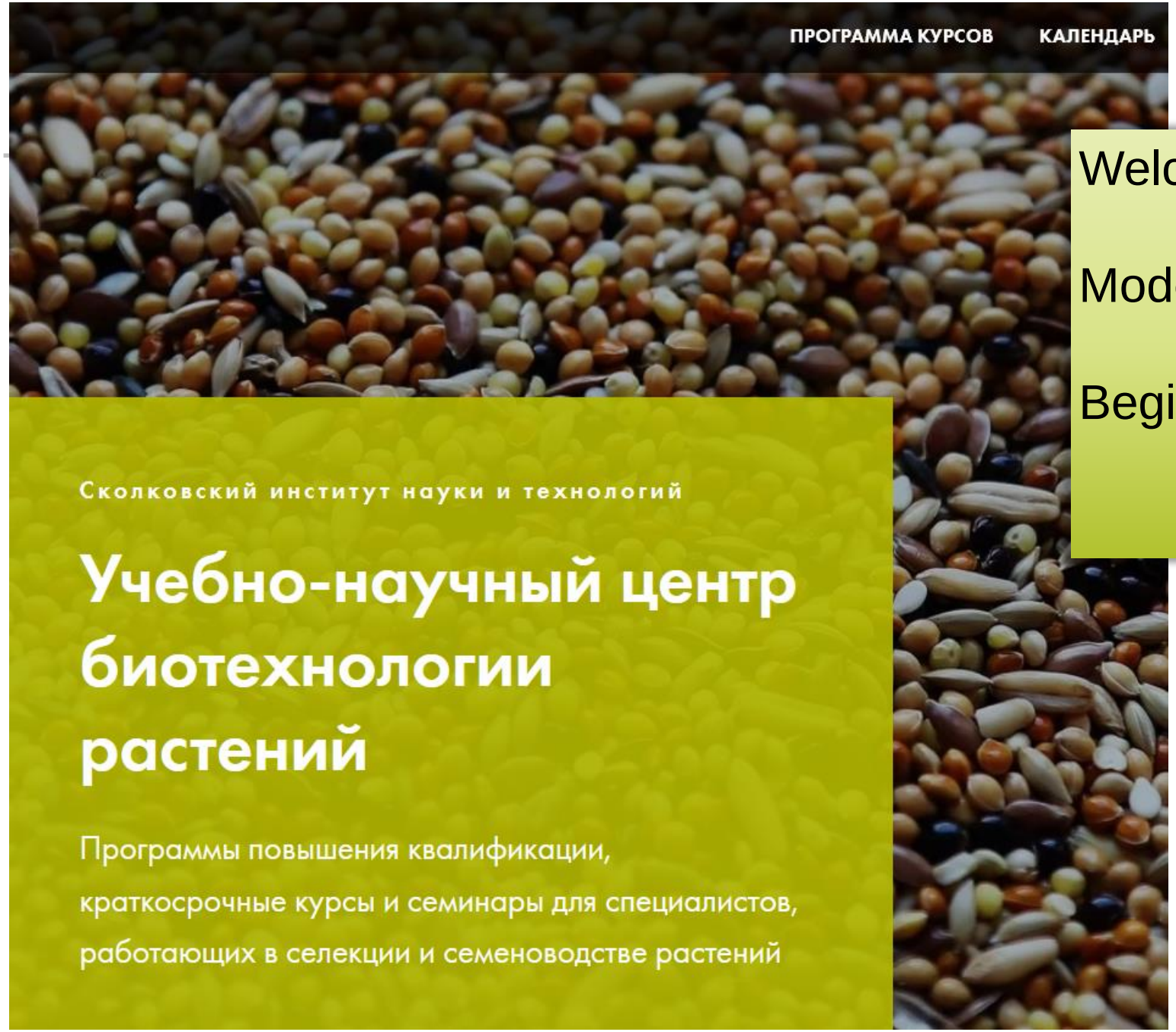

Welcome to our training session !

Modern Plant Breeding

Beginner level

December 2021

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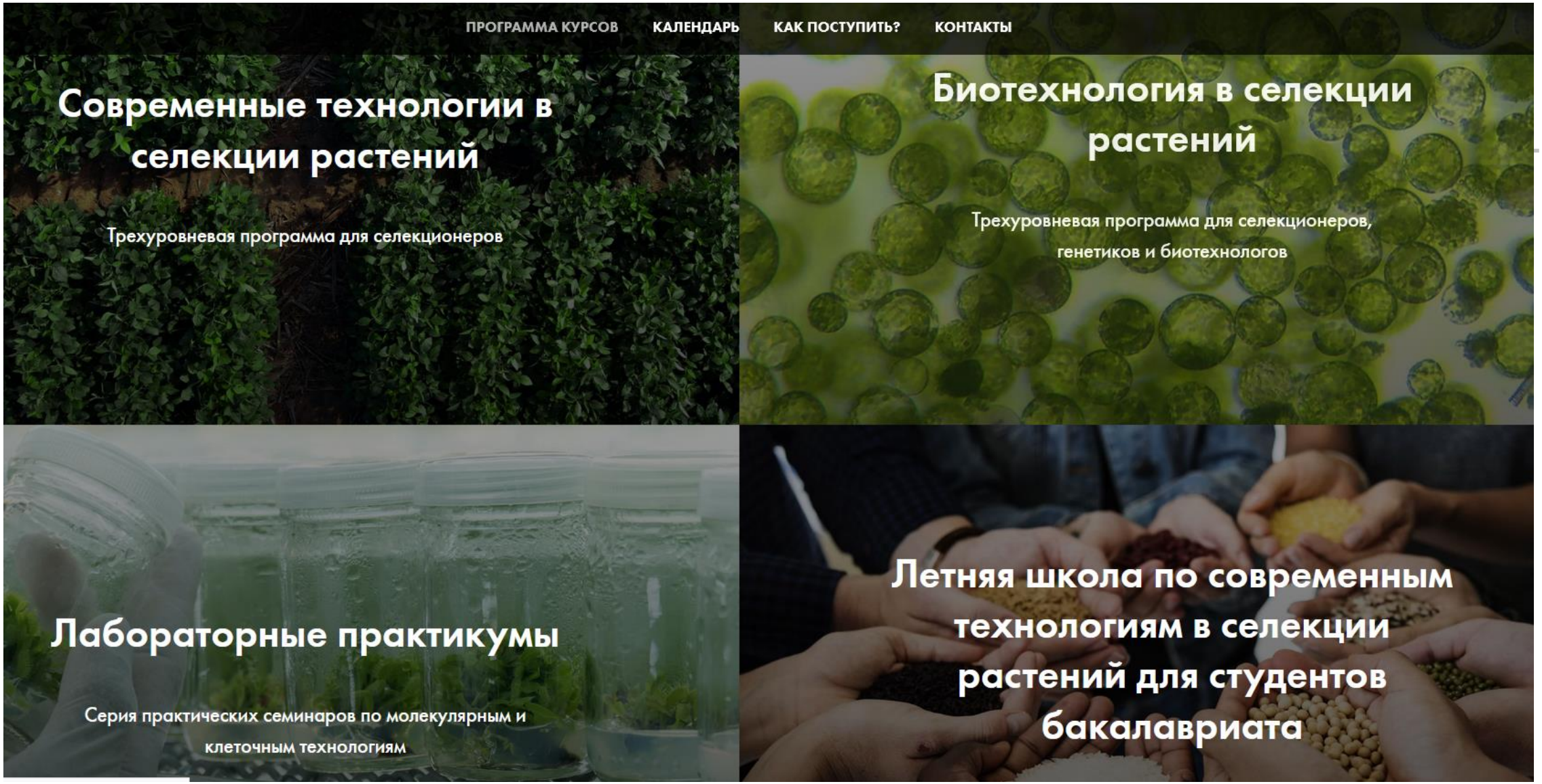

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ИЦГ

1865
РГАУ-МСХА

Белгородский ГАУ им. Майский

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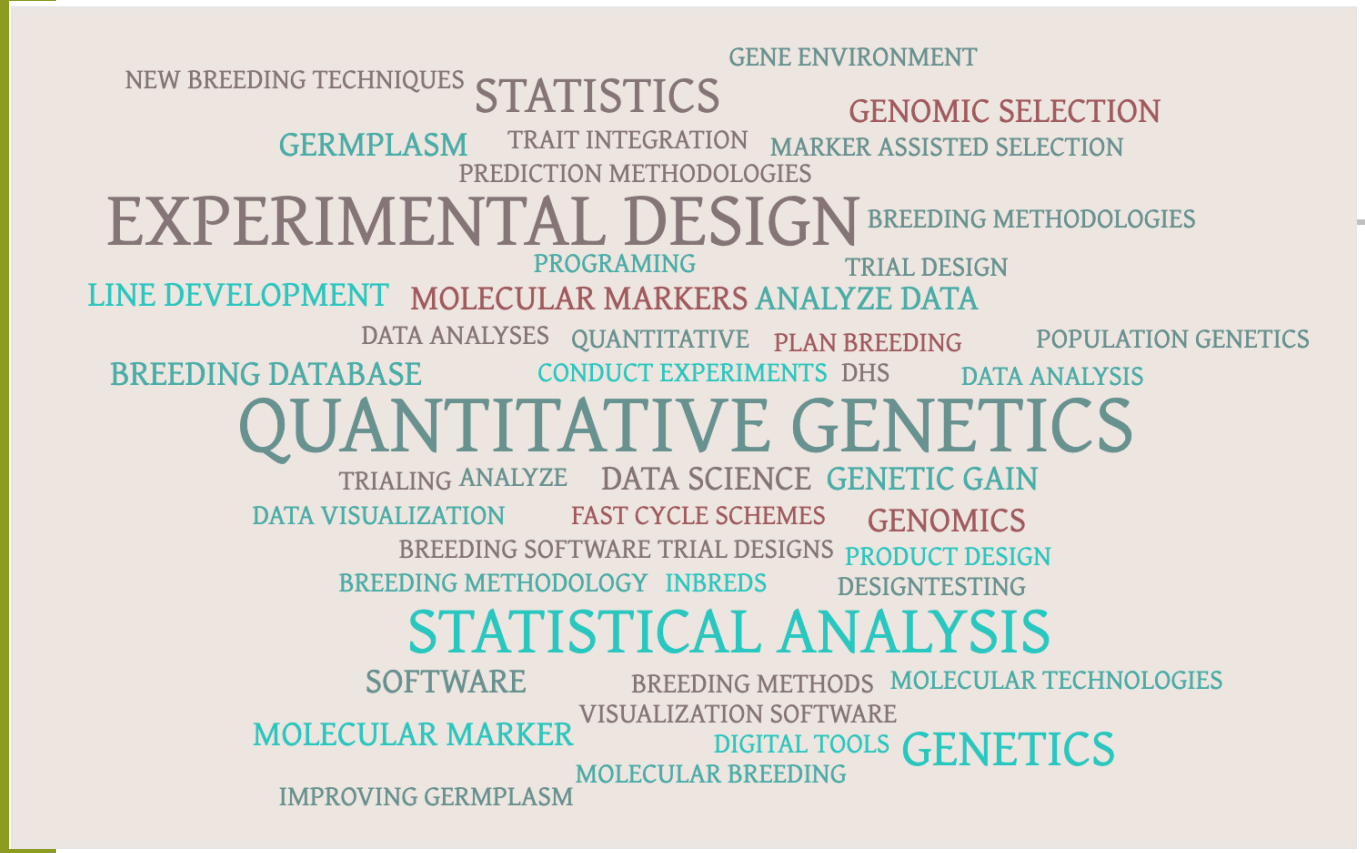
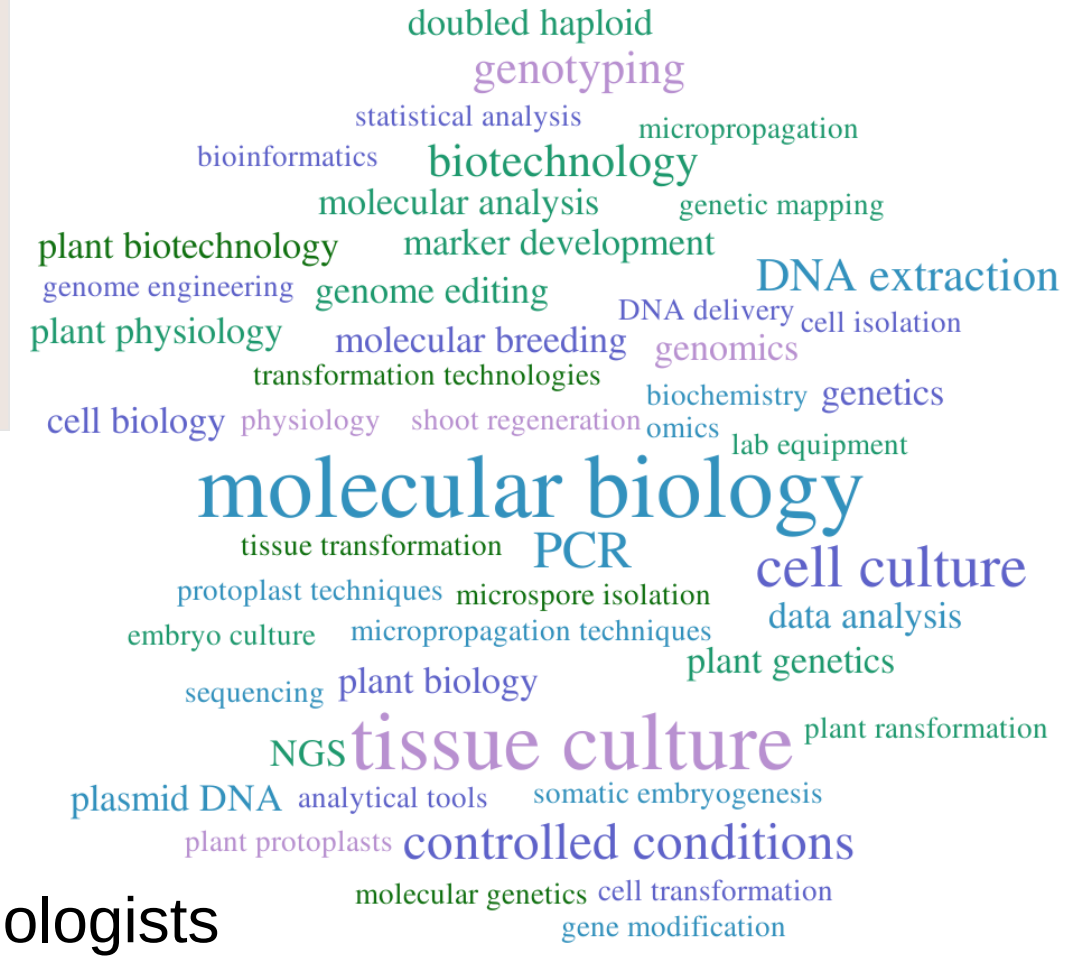


Breeders

Ratio 3 breeders :1 biotech

Expected skills for job offers LinkedIn June 2020

includes a survey of the needs of Russian companies

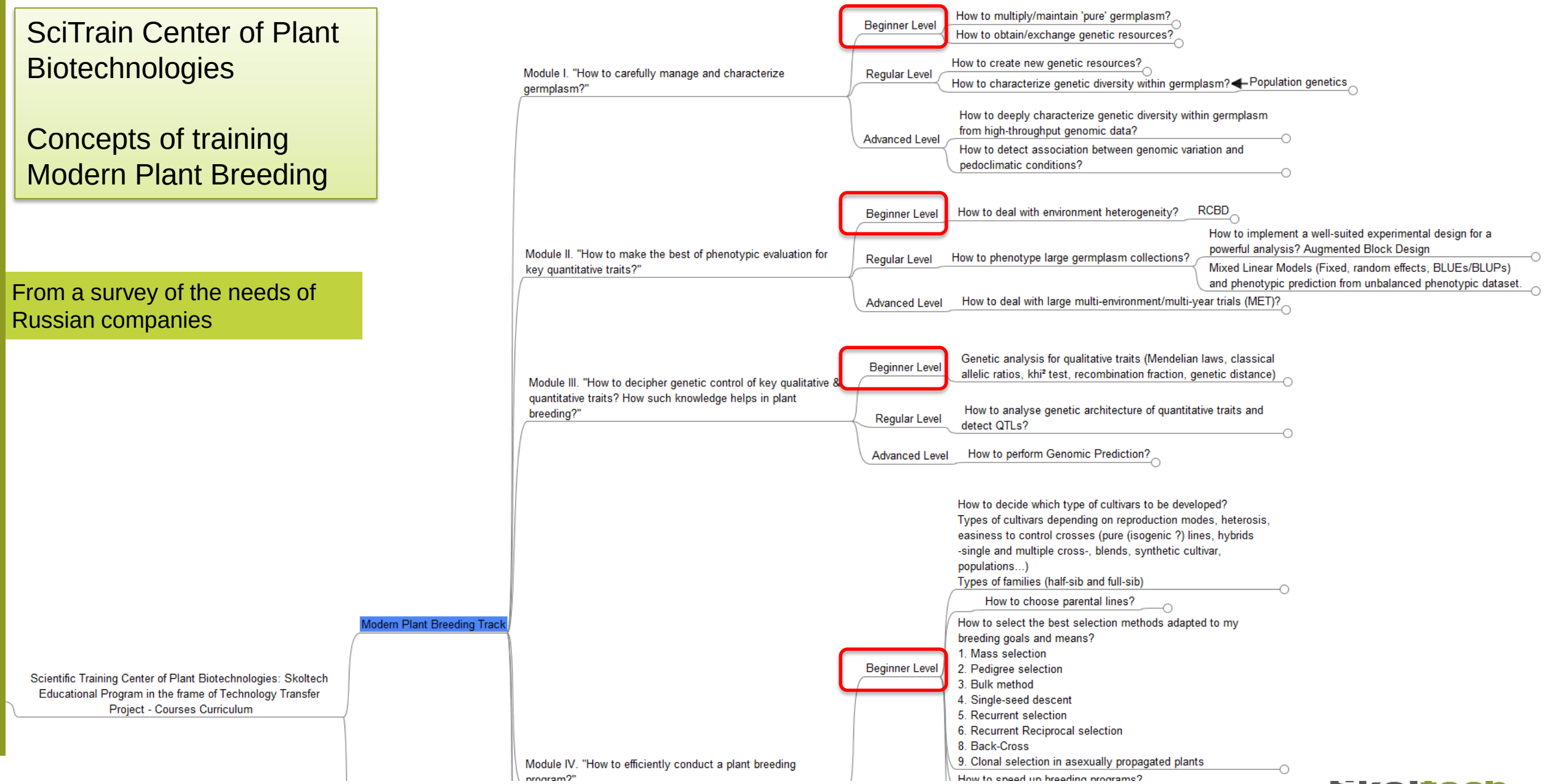


Plant Biotechnologists

SciTrain Center of Plant Biotechnologies

Concepts of training Modern Plant Breeding

From a survey of the needs of Russian companies



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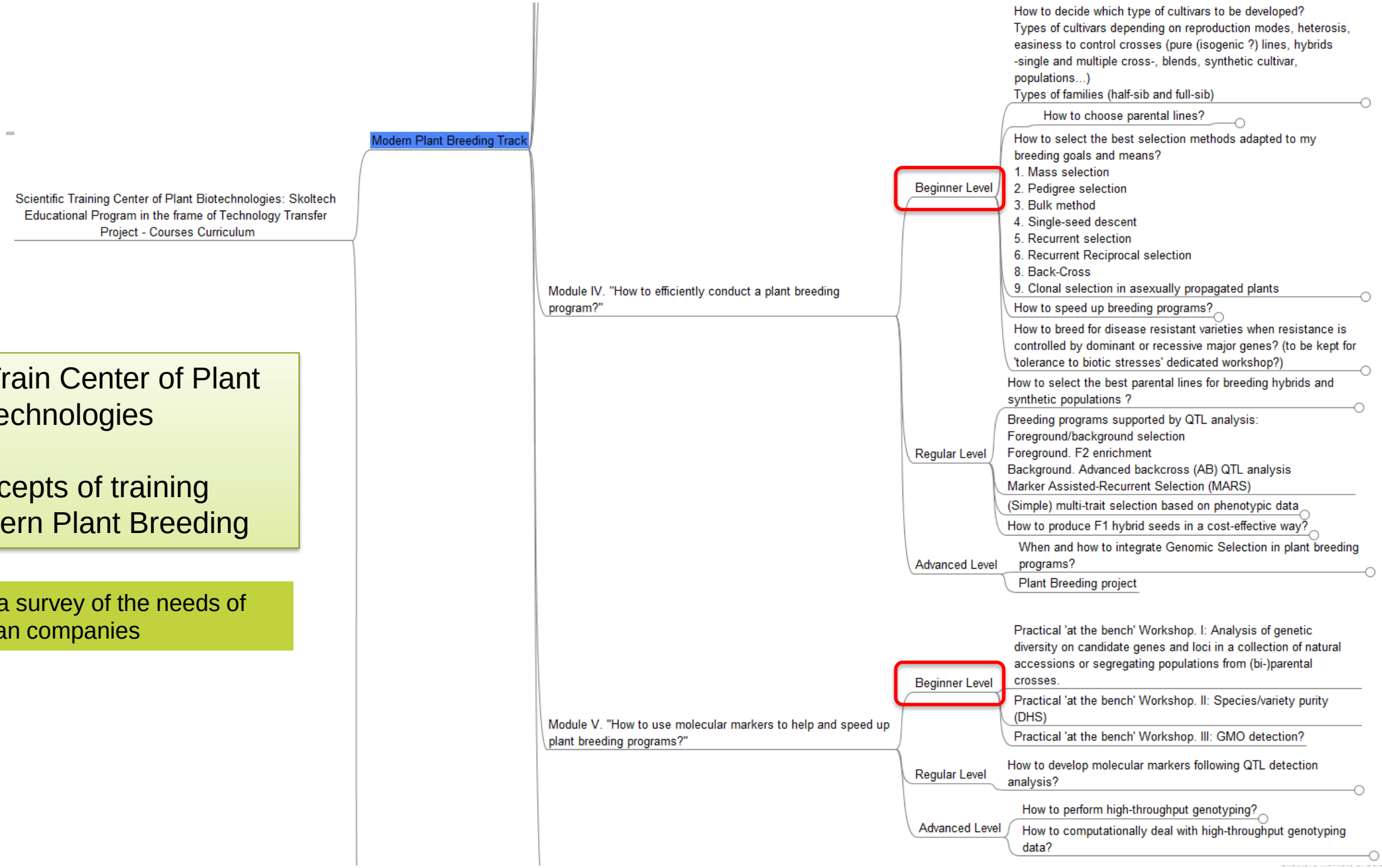
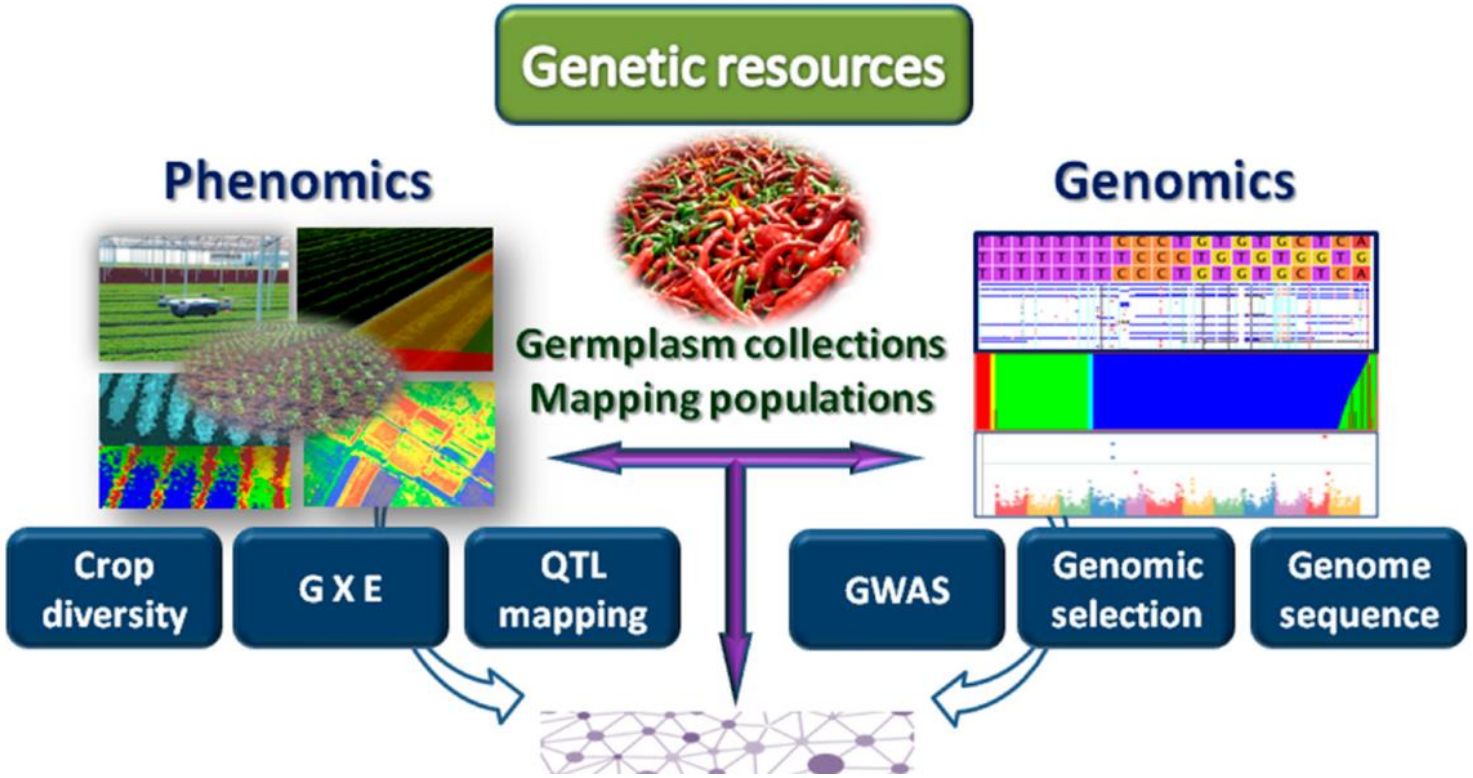


What will we talk about? What will we learn with M.P.B. ?



Adapted from: *Esposito et al. (2020). Plants, Applications and Trends of Machine Learning in Genomics and Phenomics for Next-Generation Breeding*

Project Center for AgroTechnologies, mission:

Mission	To provide new tools and techniques for implementing modern breeding techniques in plants and animals, to address the question of digital agriculture in optimizing decisions and practices in agriculture, and to contribute to secure the seed, semen, food and feed sectors in Russian Federation
Strategic goal	To establish at Skoltech a highly impactful interdisciplinary center of fundamental and problem-driven research aimed at advancing our knowledge and innovations in the agriculture sector in the broad sense, with particular dedication to the relationships with industrial partners
Main Objectives	• To design a coherent research structure through the combination of computational, big-data and experimental approaches in plant and animal sciences, and including economical analyses. • To build a sustainable system for continuous generation of **innovative and practically applicable tools** transferred into spin-off / start-ups for potential commercial exploitation. • To build a new **application-oriented model of education** for Masters and PhD students in Agronomy for training executives and specialists capable of leading and improving the food, feed and agro-supply sectors. • To **train current specialists** from the Russian leading research centers and agro companies, using a combination of online and innovative skills-based methods. • To **establish** formal **Joint Laboratories** between Skoltech and leading industries • To serve as a **focal point of international collaborations** with leading international initiatives and BRICS countries. • To lead **fundraising** activities for project on digital agriculture and implementation of new breeding technologies.

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