



New sequencing technologies in plant breeding

GenXPro

We help you to

- use the new sequencing possibilities in YOUR material
- identify beneficial genes for your trait of interest (e.g. resistance)
- identify genes that are beneficial from wild type lines
- reduce the time for breeding by several years

Our approach reduces the costs by a factor of 10-20 compared to other techniques. Therefore, the potential of the new technology is now also available to companies and breeders with a small research budget.

- No prior knowledge of sequencing or genetics needed
- No Bioinformatics needed
- Low costs

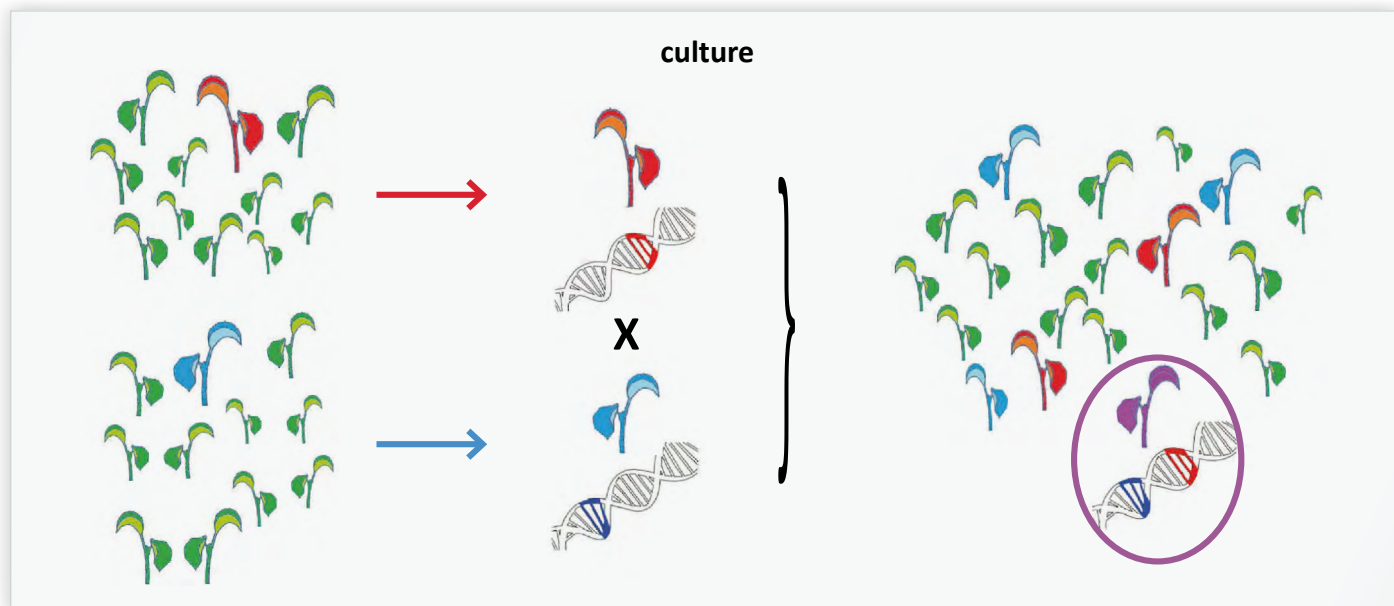
Simply send your material, we will do the rest!

Further Information

- New sequencing technologies have started a new era in plant breeding.
- For the first time, the most important genes of your breeding material can be identified in short time and at low costs.
- With the help of cost-efficient genetic markers these genes can be monitored and combined throughout the breeding process.
- Therefore, also genes from wild-type material can be efficiently included in your breeding program.

How?

- We use a technique called MACE “Massive Analysis of cDNA Ends” to detect the important genes and simultaneously identify markers for these genes.
- Unlike other markers which are located randomly in the genome (e.g. AFLPs or GBS-derived markers) MACE-derived markers are directly located within genes themselves and therefore much more valuable for the selection process.
- Our bioinformatics pipeline allows the identification of important loci in short time.



About us:

GenXPro-GmbH is specialized on High-throughput-Sequencing (HTS, NGS) technologies and data-analysis with a focus on plant- and animal genetics. Our techniques are based on reduced complexity approaches to obtain the relevant information at lowest possible costs. Our customers are breeding companies and research institutes world-wide. For further information please contact us under info@genxpro.de or visit our homepage: www.genxpro.de

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