



DNA BANK AND GENOTYPING SERVICES

AIT launched its internationally renowned DNA bank in 2003 providing long-time storage of and access to plant or animal related biological material (e.g. gDNA, tissue) and corresponding metadata in accordance with strict quality control standards. Supported by a high level of lab automation, the tailor-made laboratory information management system MAPS™ guarantees failure-free efficient sample and data management.

DNA BANK SERVICES

- High throughput DNA extraction using liquid handling systems (ISO 9001:2008)
- Development and application of tailor-made DNA extraction protocols for diverse tissues and organisms
- Centralized facility (DNA bank) for long-term storage and management of biological material
- Profound expertise in laboratory information management systems (MAPS™) and database integration

„AIT's DNA Bank & Genotyping Services team is a great partner to work with. They have been very detailed and organized on all orders and we have found them to be competitively priced. AIT has helped us to deepen our knowledge in the development of genetic markers and their possible application for our purpose. We look forward to working with the AIT team on future projects!“

AGRANA Research & Innovation Center GmbH
Dept. Sugar Technology

By focusing on non-model organisms, our expertise is ranging from tailor-made DNA/RNA extraction via genotyping to data interpretation. In particular, we are dedicated to the development and application of DNA-based genetic markers as tools for species identification (DNA barcoding), marker-trait association analysis, population genetics, diversity analysis, paternity testing, or for the proof of a sample's origin and authenticity.

GENOTYPING SERVICES

- Development of genetic marker systems by using state-of-the-art molecular technologies for individual research questions in the fields of genomics and transcriptomics
- Marker applications for various genotyping purposes and DNA fragment analysis based on several technologies:
 - KASP™
 - qPCR
 - Genotyping-by-sequencing (e.g. RADseq)
 - Microsatellites (STRs/SSRs)
- Bioinformatics analysis and data interpretation (genetic diversity, genotype-phenotype-environment associations)

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