

LABKEY

Research Resource Planning

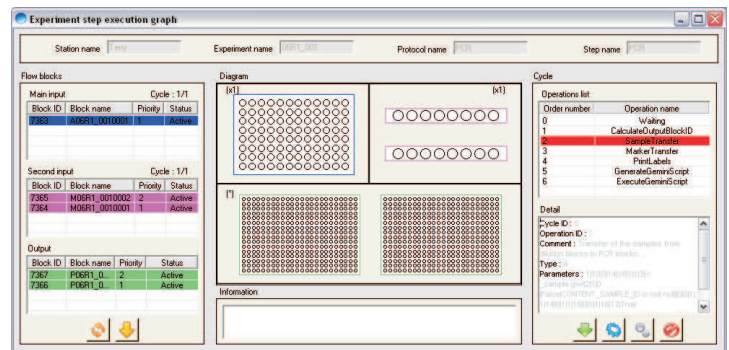
WORKFLOW MODULE

**ORGANISING AND MANAGING SAMPLE FLOWS AND ANALYSES
PILOTING OF AUTOMATONS AND LABORATORY EQUIPMENT
INSTANT ACCESS TO INFORMATION FOR DECISION-MAKING**

1 Flow organisation

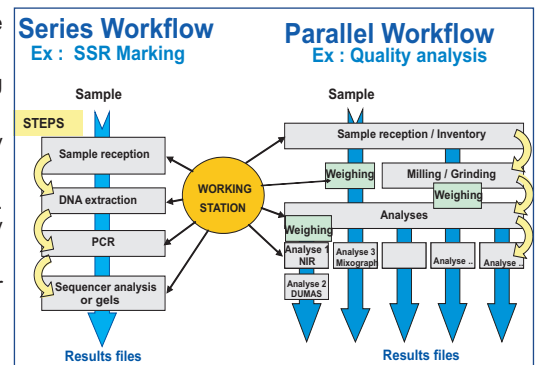
- Lab work structured around processes, experiments, protocols, stages and operations,
- Workstations are independent and transmit all tasks to one another,
- Genotypes, reagents and markers are managed,
- Media and containers entirely defined by process customisation.

Ergonomics are based on the notion of the "work station" where the stages are carried out. Each operator at his workstation has access to all pending tasks and can view the progress of each operation for each sample, if necessary.



2 Exemples of use

- Production of high-throughput markers in vegetal improvement. Able to manage several thousand genotypes and several hundred markers,
- Management of all sample flows from obtaining genotype samples to gel scoring and submitting to analysers,
- Detailed management of wells in blocks, manual arrangements, intermediary stages, dilution, calibration etc..
- Piloting ordering sequences for robots. Management of plate models.
- Connections to measuring apparatus. Rapid scoring of gel results and quality controls,
- Management of technical data: molecular marking, reagents and living matter for experiments ...

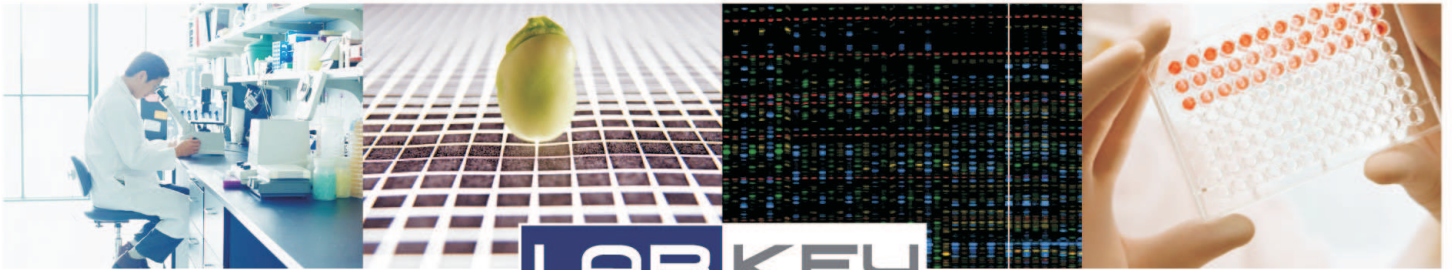


Management of sequences of analysis: management of flow type by series (all samples go from one work station to the next automatically) or in parallel (the user can choose whether or not to divide or group together the sample group manually).

3 General concepts

- Centralised data management and access control: for multi-projects, multi-laboratories, multi-sites, and in multilingual format, etc..
- Statistical analyses, calculation formulae, experiment schedules, reports, and labels etc..
- Requests for objects for experimentation and/or analysis recorded on a single system by the various teams,
- Dynamic frames,
- Identification, automatic data entry, and reading of bar codes etc..
- Interfaces with external markers data bases





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LABKEY LABORATORY SUITE

⇒ An integrated chain for the equipping of a marker production laboratory and for researchers exploiting the results



Integration with other Labkey modules

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