

Configuration Example

Open Platform Playground for Researchers



Challenge

- Flexible adaption to new tasks
- Identical processing times for all plates
- Modularity of the entire platform

Solutions

- Integration of highly flexible CyBio FeliX for changing liquid handling tasks
- Dual robotic workcell for modular or combined use depending on the workflow

Modular designed robotic system for the automation of molecular biological, biochemical, pharmacological and bioanalytical procedures

The system is engineered to facilitate the parallel and time-efficient execution of diverse and partially complex assays for drug discovery and characterization with high flexibility. The two sub-units are categorized into compound management, drug profiling, molecular biology and phenotypic assays.

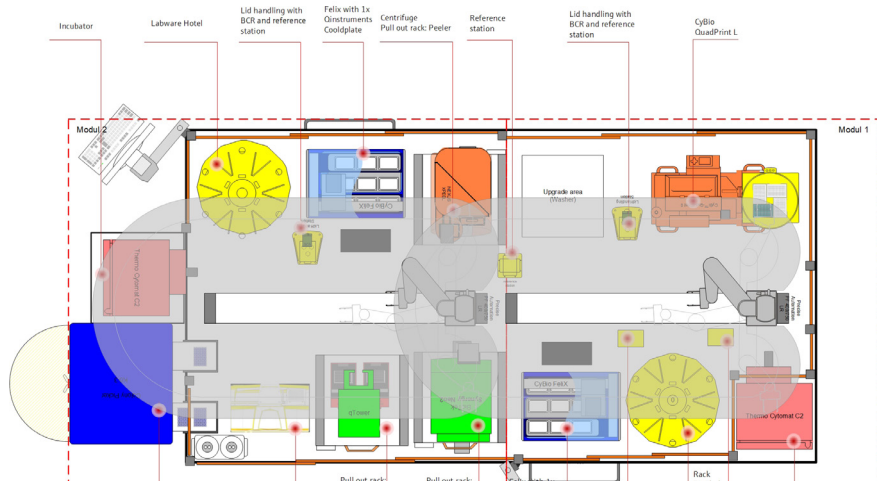
- Modular automation concept with update options for future needs
- Flexible use for diverse workflows within drug discovery
- Creativity instead of repetitive tasks

Benefits

- Clever waste sorting concept
- Slide out trays for easy maintenance tasks
- Space-saving smart layout concept

Decision Factors

- Excellent consulting and project management
- High degree of flexibility
- Possibility to upgrade



Components

- Robotic workcell with two **PreciseFlex** robot arms on linear rail (Brooks)
- Two **CyBio Felix** for flexible liquid handling tasks
- Plate labelling by **CyBio QuadPrint**
- Orchestration using **CyBio Scheduler** Software
- 3rd Party Integrations: plate reader, incubator, storage, centrifuge, sealer, peeler, colony picker, random access hotel

Application

The robotic platform supports a broad spectrum of assays, including biochemical, pharmacological, and bioanalytical procedures. It is designed to facilitate high-throughput cloning, nucleic acid analysis, and biological testing. Additionally, it can convert large compound libraries, containing up to 10,000 substances in 96-well formats, into customized sub-libraries in 96- and 384-well formats. In bioanalytics, the platform excels at creating precise calibration series and preparing samples in complex matrices for various analytical methods.

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Subjects to changes in design and scope of delivery as well as further technical development!