

Fraunhofer Biomedical Research Information, Communication, and Computation Workbench (BRICC Workbench)

Executive Summary

Today, biomedical research requires networked consortia and approaches across the borders of institutions, nations, and the public and private sectors. Hence intelligent solutions for secure, privacy-, and confidentiality-preserving data sharing and analysis are of paramount importance for patients to eventually meet their - so far unmet - medical needs, and for industry to reduce the time-to-market for health innovation.

With the BRICC Workbench, Fraunhofer seeks to build Europe's utmost

Industry-centric biomedical research infrastructure,

enabling secure and enduring **data sharing between academia and industry**, and **between pharmaceutical and biotech companies** for early discovery and pre-competitive research, to critically support translation of

- research in human molecular biology and medicine into better drugs and diagnostics, and
- feeding clinical findings back into better hypotheses for research in molecular medicine.

Sharing the relevant data streams between participating companies and institutions will be secured under highest applicable international ethical, legal, and quality standards, along the lines of a flexible Cloud-oriented Service Market Place (CSMP) concept.

By continuing close collaboration with European Research Infrastructure Consortia (ERIC; e.g. ECRIN and BBMRI), the Innovative Medicines Initiative (IMI) Joint Undertaking, the International Organization for Standardization (ISO) Technical Committee 276 "Biotechnology", and national public and private research initiatives, the Workbench will complement and support these groups' ongoing work by enabling tailored services and applications that fulfill industrial research requirements. For instance, all services and processes available over the Workbench will be validated and certified to support users' subsequent submissions for marketing authorization.

Drawing upon their previous work and expertise, the Fraunhofer institutes IZI, IME, and ITEM will join forces to lay the ground for an information infrastructure that caters to the pharmaceutical, biotech, and ICT industries, as well as the biomedical research community as a whole, to foster progress in medicine for the benefit of patients and society on a global scale.

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