**Brooks ISIDOR Portal: Bringing Efficiency and Usability to Biobanking Applications**

**Background:** Managing a sample collection efficiently within a biobank requires different functions to be carried out across a series of roles. Biobank staff with responsibility for a given task need to be able to manage and update database records as simply as possible. Staff need to navigate between software applications, with separate logins, different interfaces and workflows in order to carry out their role.

Brooks new ISIDOR Portal is a web based application that manages single sign on access to multiple applications, and allows users to create a personalized navigation dashboard to access specific features as quickly as possible, whilst delivering dashboarding capability across all applications.

**Methods:** The demands of biobank management mean that users need to interact with multiple applications. Inventory management, temperature monitoring and reporting packages deployed in biobanks need users to login and navigate within separate software systems. Those applications will also have individual display and navigation paradigms, requiring the user to be fully familiar with each application in order to fulfill their role.

Smartphone technologies have changed user expectations of software look and feel, navigation and interoperability within the same environment. As new standards for web technology are adopted, it is possible to manage and navigate different web based applications using a common user portal replicating the smartphone model.

**Results:** The Brooks ISIDOR Portal brings together different ISIDOR biobanking applications within a single framework, giving users single sign-on access, a common user interface and personalized dashboards to quickly navigate to commonly used features across the products.

Shortcuts to other web applications and URLs can also be configured to giving a single user experience across the range of applications needed to carry out their daily activities. Reports and interactive dashboards can extract data from multiple sources, reducing the time to find and act on important information.

User identification and application access is managed using Microsoft Identity Server functionality, simplifying access and delivering a single security model across all the applications.

**Conclusions:** Brooks new ISIDOR portal delivers efficiency and usability by bringing a common look and feel, navigation and interoperability between inventory, temperature monitoring and dashboarding applications within a single biobanking portal.