Pathways for Biological Reagent Quality and Weighing Decision Will Weighing Decision wit. Weighing Decision wit. Dry Vials Weighing Decision wit. Dry Vials Weighing Decision wit. Weighing Decision wit.

Abstract

Biological reagents are the single most important factor in the success of assays. Use of poor or unsuitable biological materials can lead to huge wastage of time and resources. CIMS is a novel system that provides an unique combination of active tracking in the laboratory and desktop analysis software. It provides laboratories with easy-to-use data portals for gathering cell quality data such as cell viability, cell density and passage number. It associates these reagent quality data with plates and tracks their progress around the lab. Once assay screening has been performed, the screening results for plates are merged with the reagent quality data. The CIMS viewer application can then be used to quickly and easily identify whether poor or unexpected screening results were caused by biological factors.

Built in 20 days

The CIMS solution was implemented in just 20 development days. This was achieved largely as a result of using the Pathways toolkit, which is a specially designed platform for building distributed laboratory workflow applications.

Service Oriented Architecture

The Pathways backbone provides a communication architecture which seamlessly distributes data between different parts of the application. The Pathways Software Development Kit (SDK) provides an intuitive method to access the distributed workflow data, without the need to resort to programming directly against web services.

A flexible solution

Originally built for a major pharmaceutical company, the CIMS solution can be configured to interface with different plate reader files and different cell QC instruments. Additional steps in the workflow, such as approval steps or multiple file outputs can also be added.

