Bioinformatics Engineering Program

Uppsala University School of Engineering

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Title (English)

Design and implementation of a laboratory information system for cellular pharmacology

Title (Swedish)

Abstract

A laboratory information system for handling high-throughput drug screening and low- to medium-throughput bioassays in cancer research performed by small to medium-sized academic groups was designed and partly implemented. All parts except for the graphical user interface have been implemented. The system has functionality for keeping track of when who did what, and it provides an annotation system for the objects of the system. The system was implemented in Java using the object relational manager Hibernate and the lightweight framework Spring.

Keywords

Laboratory information system, cancer research, high-troughput screaning, Hibernate, Spring

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