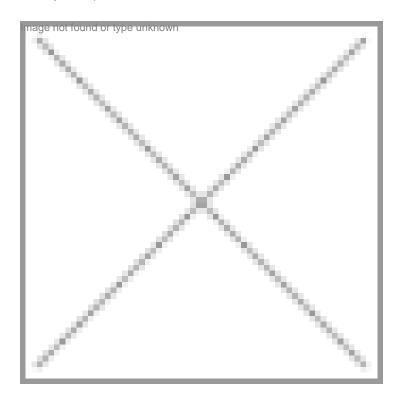


Information Management Technology

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Laboratory informatics has a much broader application area-scientific research from drug discovery to production.

Information science or "informatics" is the science of information. It is often studied as a branch of computer science and information technology and is related to database, ontology and software engineering.

Informatics is primarily concerned with:

- Creating and structuring data
- Management, storage and retrieval of data
- Distribution and transfer of information

Informatics is about the transformation of information by computation or communication; by machines or people. It is the intersection of artificial intelligence, cognitive science, computing science and related fields. Informatics focuses on

understanding business or scientific research challenges and applying information technology as the solution-tackling the problem first rather than technology first. It combines software applications, search technology, database storage and tools for digitally-enabled collaboration.

Laboratory informatics

Laboratory informatics is the specialized application of information technology to maximize laboratory operations, particularly in analytical, production and research and development. Laboratory informatics encompasses data acquisition, data processing, data analysis and long-term archiving, electronic laboratory notebooks, laboratory information management, laboratory automation, scientific data management, document authorship, review and approval.

Is there a difference between bioinformatics, cheminformatics and laboratory informatics? Bioinformatics and Mbatinformatics and laboratory informatics? Bioinformatics and Mbatinformatics and laboratory informatics?

areas of informatics?

While bioinformatics refers to the use of computing methods to create, organize, retrieve and analyze databases of biological information, such as the nucleic acid sequence data contained within a genomic database.

Bioinformatics-

Chemin**fromattis**sfoculses on the collection, storage and analysis of chemical structures and syntheses, pharmacological studies bank about the collection, storage and development.

especially

These age and by informatics are called vertical informatics domains since they deal just with a subset of applications.

Laboratory informatics has a much broader application area; it touches all areas of scientific research from drug discovery to production area; it touches all areas of scientific research from drug discovery to

Informatics in

Horizontalingpymatics solutions

drug discovery

A horizontal informatics solution provides more benefits to an organization, because it addresses broad-scale issues such as compliance, data archiving, collaboration and sharing information, and capturing knowledge.

Ecoinformatics-

Horizontal applications are generic by nature. Laboratory informatics solutions can be implemented in a lab, in a department or throughout an enterprise-as well as in the vertical domains of bioinformatics, cheminformatics or other scientific environmental

science

Companies derive the most value from intellectual property rather than physical assets. To derive the most value from a company's intellectual assets, knowledge must be shared among a company's strategic decision-makers, though leaders, scientists and other research team members, serving as the foundation for collaboration.

informatics-

There informations all the finition of knowledge management (KM). A simple definition: knowledge management is the process through the highest thr

Generating value from such assets involves sharing them among employees, departments and even with other companies in an effortive wise best practices.

information

But whost exposititutes intellectual or knowledge-based assets? There are two categories, explicit (tangible) and tacit (intangible) in a tacit (intan

The challestige inherent in tacit knowledge is figuring out how to recognize, generate, share and manage it. Even simply identifyInformatiksowledge is a major hurdle for most organizations.

Informatics in

How candaltometory informatics help to manage knowledge in labs? Each laboratory has basic needs it must manage such as furniturate authorities, waters, gas, power and glassware.

Scientists can easily identify these requirements if you ask them, but what about information? Do they have to sift through numerous property of the property

knowledge

All laboratories share a basic need to capture both explicit and tacit knowledge. And there are solutions available like for instance working powerful solutions for capturing and managing both explicit and tacit knowledge through Waters NuGenies Beight Data Management System (SDMS), eLab Notebook Software.

Informatics in the laboratory environment

Extract from "A Guide to Information Management Technology" of Waters Laboratory Informatics.