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ViSoR
bridging data islands

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ViSoR
bridging data islands

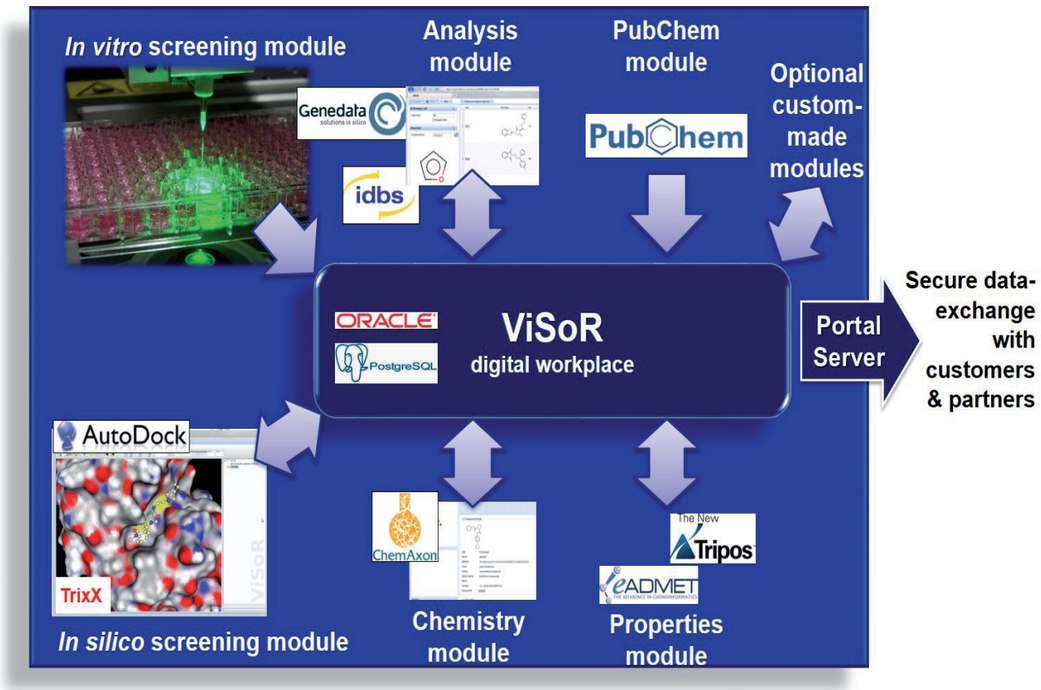
is a software backbone that allows scientists to have full control of managing screening data, data analysis and secured data exchange

In drug-discovery the the combination of *in-vitro* screening, using biological assays, with computational chemical analysis and prediction is leading to a diverse set of data. Especially in interdisciplinary teams data-analysis and -management are done in different systems and programs resulting in individual data sets.

ViSoR is the new data-management solution from c.a.r.u.s., combining the advantages of the different approaches into a single integrated discovery and data management IT-system.

ViSoR represents a central node for all data generated in the course of hit identification. Due to unique compound registration all data is linked towards the definded internal /external ID. In addition, ViSoR offers an enterprise-wide collaboration platform (comparable to a “digital work-place”) for collecting, analysing and securing scientific information as well as exchanging it to support complex research endeavors.

ViSoR is composed from individual modules and includes many interfaces to state-of-the-art drug-discovery software



> *„ViSoR is based on powerful frameworks and extended by specific modules. This enables highly customized integration into existing software and hardware environments.“*
>
> *Dr. Matthias Rath, managing director c.a.r.u.s. HMS GmbH*

Modules and Interfaces

enable a customized and integrated solution for management of existing and new screening data

Added value - *in-vitro* and *in-silico* results are finally combined:

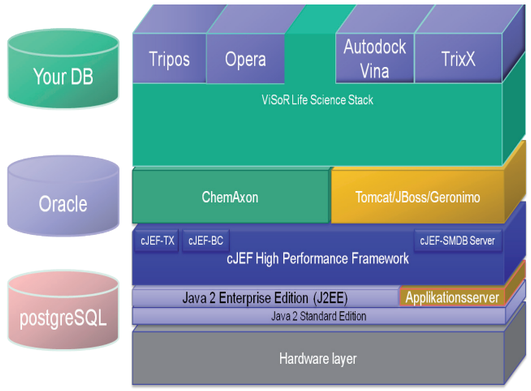
- Easy management of large chemical libraries
- Management of screening data from any origin and time
- Powerful queries and analysis tools ensure effective data mining
- Every single compound is linked to all available data-sets from *in-vitro* and *in-silico* screening approaches and external resources such as literature or PubChem
- The versatile interfaces enable connections even to corporate EMS systems (e.g. SAP)

Service provider or interdisciplinary projects benefit from defined roles and tasks to differentiate between specific internal experts and customers

A highest level of security is ensured for effective data exchange with external customers and cooperating partners.

ViSoRs frameworks

are powerful, proprietary and in continuous development ensuring highest flexibility and security standards



ViSoR is the backbone of a complete LifeScience-Software-Suite.
Powerful frameworks are combined with many interfaces to be capable of connecting state-of-the-art analysis engines of your choice.

Functional Details of the individual Modules

> Data Management

Screening modules
- Manage and visualize results from HTS and/or virtual docking
- Run full-text queries in database

Chemistry module
- Manage large compound libraries and connected data

Data analysis module
- Predict pharmacological activity
- Enable HTS with mixtures

Properties module
- Calculate compound properties

PubChem module
- Import public screening datasets for compounds and libraries

> Secure Communication

Portal Server
- Access of selected results by external team members and customers
- Secure exchange of screening results and compound library data

User Management
- Pre-defined and customizable user rights
- After editing documents are completed and fully protected.

> Technical Background

User Interface
- Easy access via browser
- No individual installation necessary

Database
- Central system
- Full search in all documents

Software interfaces
- Autodock Vina ✓
- IDBS ActivityBase ✓
- GeneData ✓
- ChemAxon ✓
- Many options for custom-made interfaces