



**Easily collect and capitalize on your scientific data
Share and collaborate across your organization.**

Inquiro version 4.2 – Oct 2021

Toulouse – Oct2021: DEXSTR, today announced the availability of Inquiro Version 4.2.

It comes with new features and some major enhancements especially in the synchronisation of documents that makes Inquiro an Enterprise Search Engine more accessible.

Inquiro V4.2 New features & enhancements

Recommendations

Within Inquiro, user can have recommendations of different types:

- Recommended documents and folders: appears in the tree on explorer view
- Recommended searches: appears in the tree on search result page
- Recommended dashlets: appears in a new dashboard named “Recommended” and contains recommended documents, searches and dictionaries

Algorithm for recommendations is based on similarity of users:

- Users who search same terms
- Users who open same documents or folders
- Users who use same facets

Recommended documents and folders

The screenshot shows the Inquiro V4.2 interface. The left sidebar contains a 'Recommendations' section with a list of recommended documents, including 'jcp0227-2106.PMC3306794.pdf'. The main content area displays the details for the selected document, including a description, comment, and a table of upload and download dates. A chemical structure for Sodium Orthovanadate is also shown.

UPLOAD DATE	UPLOADED BY	FILE SIZE	NUMBER OF DOWNLOAD
12/01/2017	Erwan DAVID	896.8 kB	6

SODIUM ORTHOVANADATE

MOLECULE NAME
sodium orthovanadate, alprazolam, pama, 3to buffer, phenylmethylsulfonyl fluoride, cAMP, dermatol, crystal violet, sodium pyrophosphate, mibronon-C, 3tan 3, etnal alcohol, thymidine, phalloidin, fluorescein, glucose, formaldehyde, apolirah, hepes, bisindolylmaleimide, averfin, sodium hydroxide, heupapin, sucrose, essin, glycerol, sodium fluoride, EGTA, maleicite green, edetic acid, null, magnesium chloride, angiotensin, benzamide, sodium chloride

Hit count: 1
Positions: p2
Original token sodium orthovanadate
Type: luc

Recommended searches

The screenshot shows the search results for 'asthma' in the inqairo for DEXSTR interface. The search bar at the top contains 'asthma' and shows 4993 results in 0.23 seconds. The results are displayed in a list format with three items:

- S088985610400133X.pdf**: Protein ontology: angiotensin-converting enzyme, arachidonate 5-lipoxygenase. Chemical entities of biological interest: acetylsalicylic acid, adenosine, albuterol, ... remains active. ELSEVIER Index Note: Page numbers of article titles are in boldface type. A Abdominal pain. n **Searches include asthma**, 34 Kozkan et al.
- Asthma**: No fragments.
- S0889856110000949.pdf**: Protein ontology: eosinophil cationic protein, non-secretory ribonuclease. Chemical entities of biological interest: claritromycin. Disease ontology: asthma, bronchitis, chlamydia, ... 530 Adenovirus infections. in **asthma**, 451, 453, 467-488. Allergens, viral Interactors with, 553-563. human. ribonuclease, 555-557. Immune response in, 559 in

On the left side, there is a 'Recommendations' panel with a list of terms: carbon, dalan, riboflavin. Below it is a filter menu with categories like Instance (5/5), Anatomy (281281), Authors (300/300), etc.

Dashboard with recommended dashlets

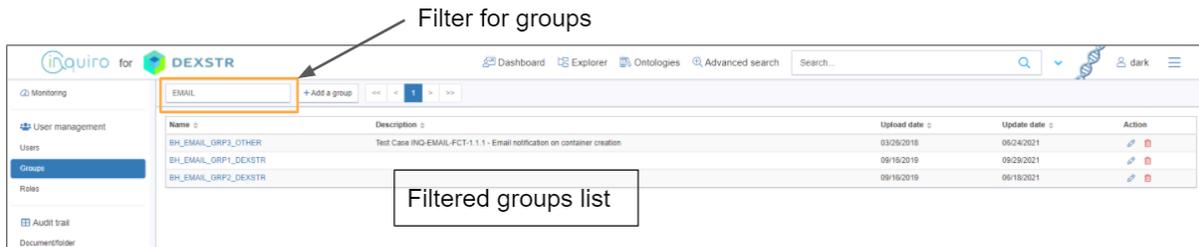
The screenshot shows the dashboard interface of inqairo for DEXSTR. The dashboard is titled 'Dashboard' and contains three recommended dashlets:

- Recommended documents and folders**: A list of documents and folders including 'Experiment Demo', '10084462.doc', 'S101182733-Taxi-protein-Prediction', 'MyRep', 'Nex', 'povetpoint.pdf', 'view007.pdf', 'v2m1802(1).pdf', 'ORAN', 'program Charts', 'Project Demo', '10033207.doc', 'jsg0227-2106.PMNC3385794.pdf', 'pgen.1002286.PMNC3459990.pdf', and 'p0rw.0020183.PMNC3384841.pdf'.
- Recommended searches**: A list of search terms: 'carbon', 'dalan', 'riboflavin', and 'test'.
- Recommended dictionaries**: A list of dictionary entries including 'DNA biomarkers', 'Molecule name', '(-)-epinephrine; west. riboflavin', 'epine', 'catalase; (ec:11055)', 'dimethylsulfoniourea', 'Ethin acedine; prochlorperazine', 'lumiflavin', 'parfioric riboflavin; thiazinic; thiazolone', 'riboflavin', 'riboflavin monophosphate', 'riboflavin phosphate', 'vitamin b 2', and 'NCBI'.

Each dashlet has a title and a list of items. The 'Recommended documents and folders' dashlet has a dropdown menu set to 'Experiment Demo'. The 'Recommended searches' dashlet has a search bar. The 'Recommended dictionaries' dashlet has a dropdown menu set to 'Molecule name'.

Search on groups

Within the groups administration page, user can filter or search for a group at the top of the list.



Boost on search

Modify boost function on search due to deprecated method in Solr engine.

This boost function allows to order search results with at first place most relevant documents based on:

- Number of download
- Number of open
- Update date

Revision of connectors

Connectors have been entirely reviewed to optimize the synchronization of different sources.

A new mechanism of synchronization has been developed to ensure the synchronization of sources with a large amount of documents.

This new synchronization allows to launch indexation and prediction immediately.

Monitoring page has been modified to show

- synchronization advancement
- result of previous synchronization

On the monitoring page, user can now relaunch a connector in error by clicking on the refresh icon.

Inquiro optimization and security

Some enhancements have been done especially for optimization and security in Inquiro :

- Upgrade to Mongo driver 4.4 to ensure compatibility to new MongoDB versions until 5.0 and always ability to connect to MongoDB On premise or MongoDB Atlas
- Reduce API calls to improve performance and limit network usage
- Upgrade ChemAxon Plugin to 21.8.0
- Optimize prediction for large volume of documents
- Parallelize text recognition with tesseract 4
- Encrypt database access in configuration files
- Archive and optimize audit trail to reduce database size and increase performance

Various improvements

From lists, open documents in new tab to keep list or search available
Optimize loading time for metadata page
Clean indexes in MongoDB
In metadata administration, remove "highlight" parameter because highlight is only for text
Responsible page for dictionaries administration
Look & feel of ontologies page
Edit restrictions on huge amount of data
Optimize aggregation functionality in container fields
Optimize export functionality

Bug corrections

Scroll to new dictionary
Modify dynamical views filetable to be consistent with Inquiro theme
Connectors cannot delete file when delete restrictions is set
Color of FAQ icon
Error getting groups for edit restrictions
Translate headers of array in dynamical views
Distribution graph layout is broken for long header