

## “A single place for scientific information”

### The problem...

All scientific organisations face the increasing problem of how to deal with vast amounts of information and data: how best to manage the information; interact with colleagues and collaborators; find relevant information; extract knowledge; visualise data in intuitive ways and keep track of internal and external science.

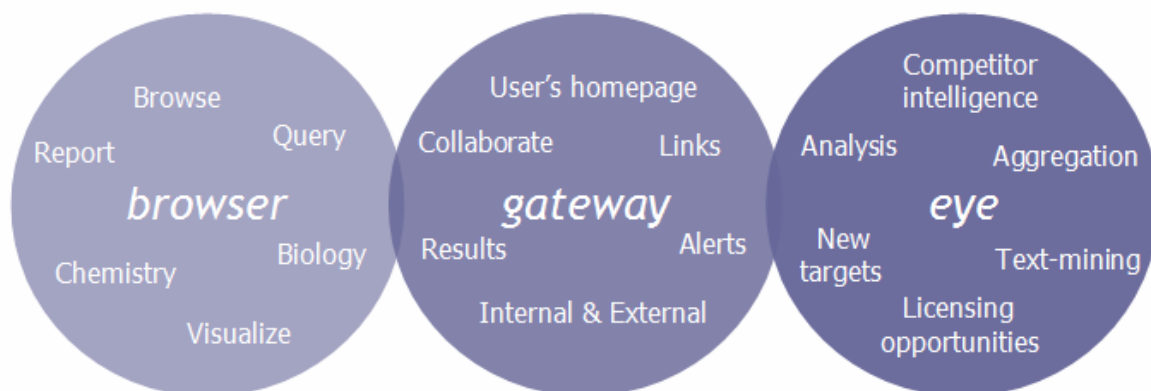
Employees spend too much time handling data and not enough time making use of information. On average, a typical employee spends a third of their time engaged in searching for information, gathering information, filing and distributing, creating presentations, and routing documents.

Work is replicated by the same person or others, information is left unshared and knowledge remains undiscovered, even if it already exists internally or externally.

### The solution...

dotmatics provides a suite of web-based tools covering all aspects of scientific information and data management:

- *browser* – a querying and browsing tool for small and large biological and chemical datasets. Built in collaboration with scientists *browser* is completely tailored to the needs of chemists and biologists. It is highly scalable and is so reliable it can be used for all research-based data-mining problems.
- *gateway* – our collaborative tool has changed the way people work. *gateway* was originally built and refined over several years for a major pharmaceutical company where it saved millions of dollars.
- *eye* – instantly search millions of documents from internal or external sources using a world leading text-mining engine. *eye* knows the meaning of scientific terms so you no longer have to use complex query logic to get to the right answers.



**save time searching  
new ways to search**

**save time distributing  
new ways to share**

**save time reporting  
new knowledge**

### dotmatics Limited

dotmatics are committed to providing advanced knowledge solutions with intuitive interfaces for use by the life sciences. We work in partnership with customers to deliver the best possible solutions. Our products are extremely powerful out-of-the-box solutions which can be further customised and integrated with existing systems to deliver yet more value.

### Free evaluations

If you are interested in trying our products, we host demo versions from our web-servers. Contact us for a free trial account. For *eye* we also offer a fully hosted version available at [www.eyeforscience.com](http://www.eyeforscience.com).

## gateway - changing the way people work

Our web-based *gateway* tool has changed the way people work. *gateway* was originally built and refined over several years for a major pharmaceutical company where it saved millions of dollars. The tool is now in use by biotechs, pharma and academic institutes globally.

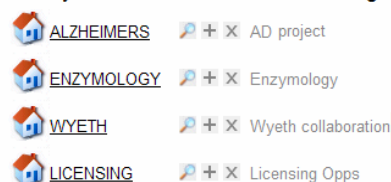
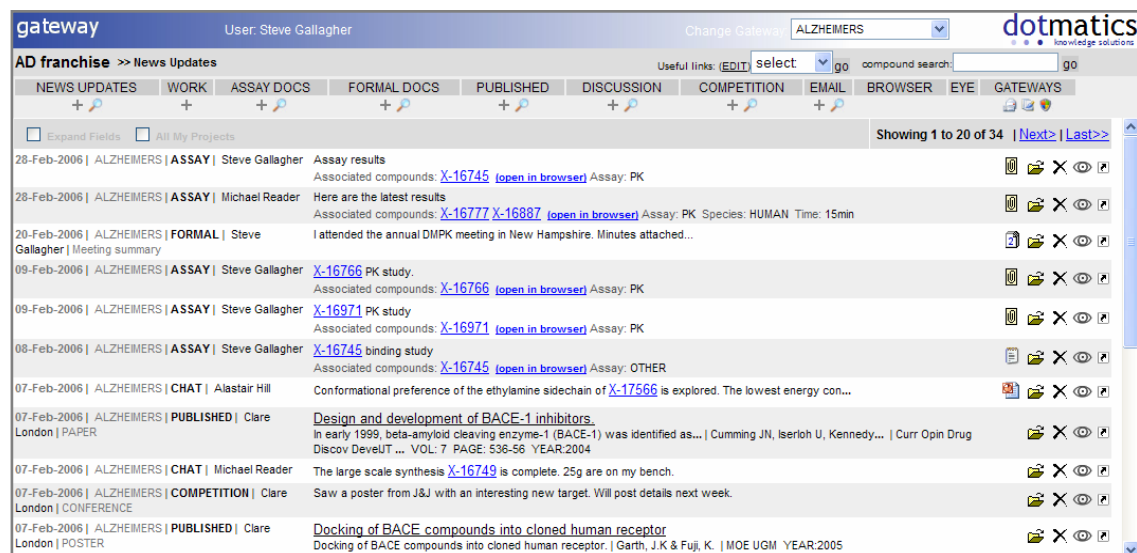
*gateway* serves as a central place for all project teams throughout your organisation to share information. Teams can also securely share information with external partners. Users can easily add reports, presentations, experimental results, ideas, published information and more. *gateway* is easy to use and administer. As your organisation changes, *gateway* changes with you.

With *gateway*, you have access to full text searching of all documents, email notification of updates and automated versioning/archiving of your information.

*gateway* provides features to consolidate all scientific information in one place:

- Through integration with *browser*, biological and chemical data can be linked into the content of the *gateway* – compound identifiers are automatically linked to their associated data.
- Integration with *eye* automatically provides access to current awareness, competitor intelligence and scientific insight relevant to the team.
- By integrating with your in-house tools and systems, *gateway* serves as a portal to all of your information.

Steve, you have access to the following GATEWAYS:



 A screenshot of the gateway web application interface. The top navigation bar includes the user name 'User: Steve Gallagher', a 'Change Gateway' dropdown menu set to 'ALZHEIMERS', and the dotmatics logo. Below the navigation bar, there are tabs for 'NEWS UPDATES', 'WORK', 'ASSAY DOCS', 'FORMAL DOCS', 'PUBLISHED', 'DISCUSSION', 'COMPETITION', 'EMAIL', 'BROWSER', 'EYE', and 'GATEWAYS'. The main content area displays a list of news updates for the 'AD franchise' category, showing dates, authors, titles, and associated compounds. For example, one entry from 28-Feb-2006 by Steve Gallagher is titled 'Assay results' and lists associated compounds X-16745 and X-16777.

## gateway solves many problems...

"I wish we could share all of our information more efficiently."

"I find it difficult to track my team's contributions."

"I can never find all the information I need – even though I know it already exists."

"What work have I contributed to the Alzheimer's project this year?"

"I want to know about compound x – structure, results, reports, thoughts, decisions."

"I need to share information with an external partner – these emails are driving me mad!"

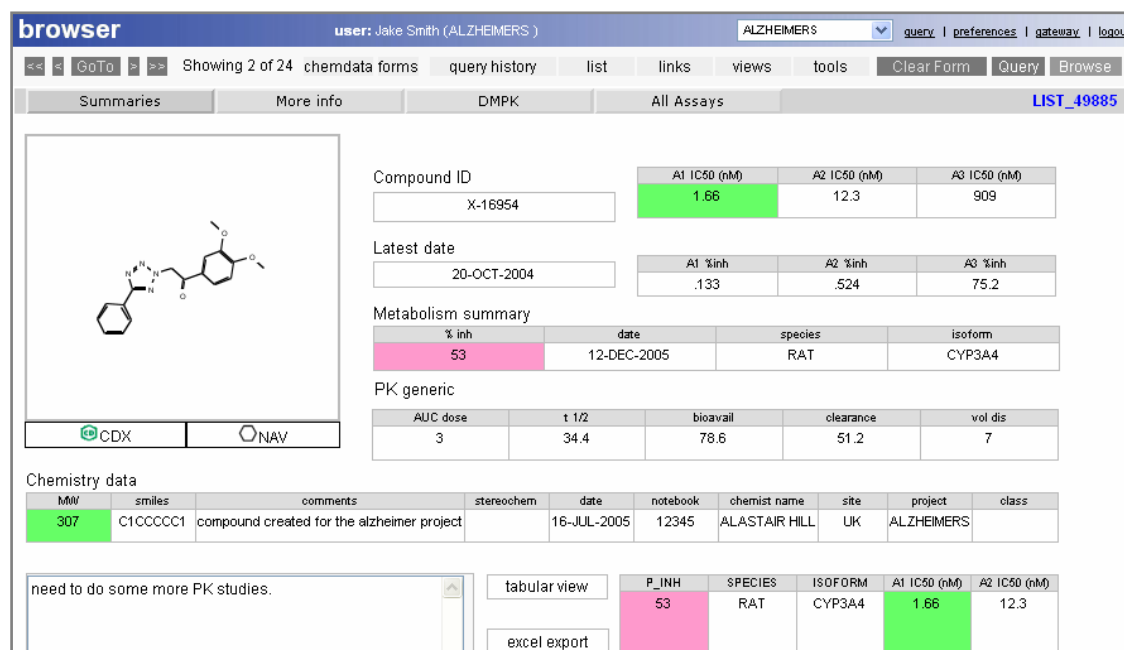
"I want to be alerted when new information is available for my project."

## browser – bringing all scientific data to a scientist's desktop

*browser* is our web-based tool for querying and browsing small and large biological and chemical datasets. Built in collaboration with scientists in a pharmaceutical environment, *browser* is completely tailored to the needs of chemists and biologists. It is highly scalable and is so reliable it can be used for all research-based data-mining problems.

Key aspects of *browser* include:

- Best data-browsing tool in class.
- Developed with scientists: tried, tested and adored!
- Entirely web-based, so it is easy to use, easy to manage, works from anywhere, including dial-up connections, and does not require any client installs.
- Ultra-high performance for both querying and browsing, no matter how much data you have.
- Integrates with any chemical cartridge so you can take advantage of existing licenses or preferred methodologies.
- For small-scale use we can supply *browser* with a complete structure searching capability.
- Integrates with document management systems (including *gateway*) and in-house tools to extend its capabilities even further.
- *browser* is incredibly flexible. Create almost any view of data you can think of in just a few simple steps.
- *browser* pays for itself: on average our existing customers save ½ day per month per user versus other commercial solutions.



The screenshot shows the browser web application interface. At the top, the user is identified as Jake Smith (ALZHEIMERS). The main content area displays a compound profile for X-16954, including its chemical structure, a CDX logo, and a NAV button. The profile includes several data tables:

Compound ID	A1 IC50 (nM)	A2 IC50 (nM)	A3 IC50 (nM)
X-16954	1.66	12.3	909

Latest date	A1 %inh	A2 %inh	A3 %inh
20-OCT-2004	.133	.524	75.2

Metabolism summary			
% inh	date	species	isoform
53	12-DEC-2005	RAT	CYP3A4

PK generic				
AUC dose	t 1/2	bioavail	clearance	vol dis
3	34.4	78.6	51.2	7

Chemistry data table:

MW	smiles	comments	stereochem	date	notebook	chemist name	site	project	class
307	C1CCCCC1	compound created for the alzheimer project		16-JUL-2005	12345	ALASTAIR HILL	UK	ALZHEIMERS	

Additional data table:

P_INH	SPECIES	ISOFORM	A1 IC50 (nM)	A2 IC50 (nM)
53	RAT	CYP3A4	1.66	12.3

## What have our customers said about browser?

"I can do things with *browser* that I have never been able to do before, and it is so fast!"

"I have been waiting for years for something this good."

"*browser* is so easy to use and saves me so much time, I can actually use the data rather than just try to find it."

"All the other tools we have looked at have serious deficiencies, *browser* does not."

"Using *browser* is like driving to work in a sports car compared to the other tools on the market."

## eye - millions of documents, many sources: one interface

Our web-based tool, *eye*, allows you to search millions of documents from internal and external sources in a fraction of a second using the world leading text-mining engine from Collexis. *eye* knows the meaning of scientific terms so you no longer have to use complex query logic to get to the right answers.

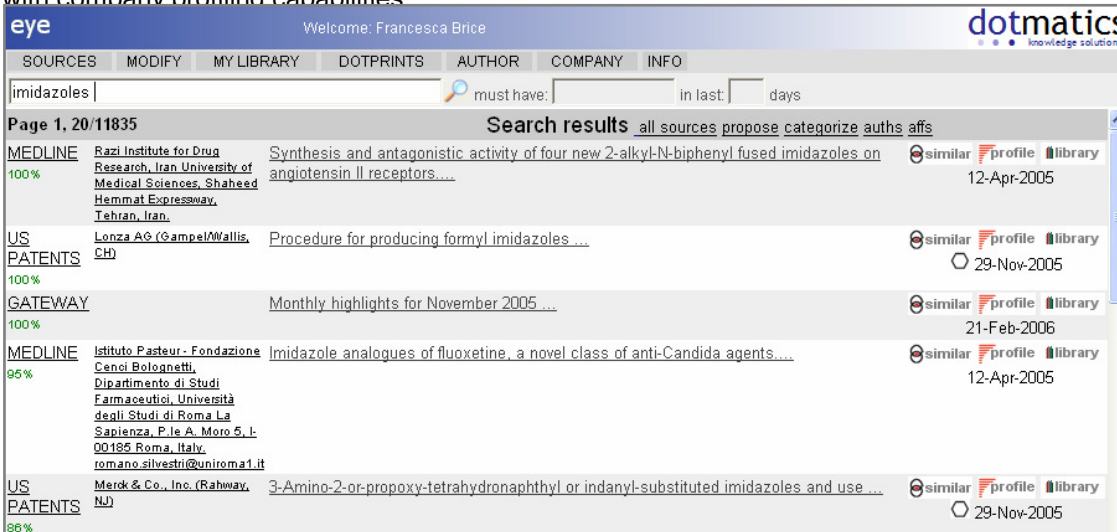
With *eye* you can:

- Enterprise search - internally across file-shares, websites, databases and document management systems in a single interface.
- Embed search capabilities into your existing tools to enrich their functionality.
- Find new targets, compounds, assays, drugs and pharmaceutical indications.
- Profile companies and people or find collaboration and licensing opportunities
- Track trends in the literature to look for gaps in the market.
- Integrate with *gateway* to provide a comprehensive opportunity tracking system with company profiling capabilities

*eye* provides access to many external sources at no additional cost:

- All Medline content.
- Life science related patents from the WO, US, EP, JP, GB, FR and DE patent offices.
- Medical news feeds for tracking breaking news on competitors and topics of interest.
- Clinical trial data on completed and ongoing trials, including information on phase, indication and affiliation.
- Information on marketed drugs.
- Information on genes, indications, receptors, targets and chemicals.
- Information from grant databases on emerging science and authors.
- Crawled content from over 13,000 biotech, pharmaceutical and academic websites.

Additional content can be sourced and integrated into *eye*. If you have your own databases you would like to index they can also be incorporated.



The screenshot shows the 'eye' search interface. At the top, it says 'Welcome: Francesca Brice' and 'dotmatics knowledge solutions'. Below that are navigation tabs: SOURCES, MODIFY, MY LIBRARY, DOTPRINTS, AUTHOR, COMPANY, INFO. A search bar contains 'imidazoles' and a search button. Below the search bar, it says 'must have: [ ] in last: [ ] days'. The main content area shows search results for 'imidazoles' on page 1 of 20/11835. The results are listed in a table with columns for source, title, and date. The sources include MEDLINE, US PATENTS, GATEWAY, and MEDLINE. The titles include 'Synthesis and antagonistic activity of four new 2-alkyl-N-biphenyl fused imidazoles on angiotensin II receptors...', 'Procedure for producing formyl imidazoles...', 'Monthly highlights for November 2005...', 'Imidazole analogues of fluoxetine, a novel class of anti-Candida agents...', and '3-Amino-2-or-propoxy-tetrahydronaphthyl or indanyl-substituted imidazoles and use...'. Each result has a 'similar' icon, a 'profile' icon, and a 'library' icon. The dates range from 12-Apr-2005 to 21-Feb-2006.

## What problems can *eye* solve?

"The cost of competitor intelligence is so high, I wish there was something more affordable."

"I wish I could go to just one place to find all the internal and external information I need."

"I can't keep track of the vast amounts of data and literature out there."

"Who are the thought leaders/experts in our area?"

"Are we missing opportunities in this field?"

"Who could we license products and drugs from/to?"

## [www.eyeforscience.com](http://www.eyeforscience.com)

*eye* is also available as a subscription service at [www.eyeforscience.com](http://www.eyeforscience.com).