Infotrieve

- The leading integrated solution provider of information management and services
  - Over 3,000 organizations and over 50,000 end users worldwide
  - More than 1m articles delivered annually

- 18 years of experience
  - Operations worldwide

- Named one of the top-100 most important e-content companies by eContent Magazine
Infotrieve’s Life Science Research Center (LSRC) is an innovative discovery tool that combines articles, patents, and other STM documents with scientific data such as genes...

...All with a life science focus.
What is LSRC?

LSRC is a tool that:

- Significantly increases scientists’ ability to conduct deep content searches and obtain more meaningful research results
- Makes content more valuable by centralizing access to different content types, revealing hierarchical relationships between search subjects and other entities
- Provides multiple methods for evaluating the usefulness of results
LSRC – Search AND Discover

- Single interface to cross-content search
  - Narrow by categories/content type(s)

- Basic and Advanced Searching

- Discovery tools
  - Entities and Clusters

- Synonyms
  - Smart searching with UMLS, NLM’s meta thesaurus
  - Automatically finds synonyms

- Full Text Indexing
  - Windows into the Full Text
LSRC – Search AND Discover

- ‘More like this’
- Cited References
- Awareness
  - Alerts
  - Recent/Saved Searches
- Laboratory Toolbox
  - Calculators
  - Reference Tools
- Multiple Sorting Options
Windows into the Full Text

- Going well beyond services that only use titles and abstracts, LSRC has indexed the full text of millions of:
  - Scientific journal articles
  - Book Chapters
  - Gene records
  - News articles
  - …and more

- Delivering a window into the full text:
  - Search keywords within the full text
  - Scientific terms (entities) are extracted from within the full text and displayed along with the search results
  - View keywords in context within the full text

- With a view into the full text, users can make smart decisions about reading or purchasing an article
Additional Content Types

- Worldwide Patents
- Business Information
  - E.g. Drug Pipelines, R&D Profiles
- Life Science News
- Organisations
- Protocols
  - LabVelocity, Suppliers, Publishers
LSRC Home Page

Browse by scientific categories

Customize news based on area of research
Advanced Search Screen

Search within the full text

Search all content at once

Limits
LSRC – Discovery Tools

- Entity extraction
  - Terms from Authority Files extracted from the Full Text
    - Anatomy
    - Chemicals
    - Diseases
    - Drugs
    - Genes
    - Organisms

- Clustering
  - Extracts common terms/phrases/concepts
  - On the Fly

*Reveals Novel Relationships & Encourages the “Eureka” Moment*
Entities & Concept Clusters

- Protein
  - Protein kinase
  - Circadian rhythms protein
  - Clock protein
  - Binding protein
  - Containing protein - bhbb2
  - Protein coupled receptor - retinal pigment epithelium RPE
  - Mutations in the prion protein gene
- Circadian
- Gene
- Closed
- Functions
- Cell
- Receptors
- Factor
- Human
- Hormones

More Clusters...
Entity Extraction – An Example

Search using a Protein Name

- Entities Reveal:
  - Organisms this protein is known in
  - Diseases this protein is involved in
  - Drugs that act on this protein

Search using a Disease Name

- Entities Reveal:
  - Parts of the body affected
  - Related drugs/chemicals
  - Genes associated with the disease

Simplifies the Process of Getting to the Critical Information
Collaboration

Personal and Group Projects

- Organize your work in project folders
  - Personal and workgroup access

- Rate documents, share comments

- Discussion boards for your work group

Comments on this article: Add a new comment

- Related work on TIM1 and TIM3 (9 replies, 3 new)
- Previous Research on SMUCKLER (3 replies, 0 new)
Expanded Search

Pre-filled with Search Term

Set of Databases Selected by User’s Organisation
Expanded Search

- Federated Search/Meta Search
  - Allows you to search all of your databases at the same time from a single interface

- 1000s of connectors already built
  - Access available free or subscription databases

- One search interface
  - One authentication manager

- Integrated with journal content management

- Clustering

- First returned, first displayed

- Access the native interface of any result
Customer Feedback

“LSRC simplifies the way researchers access and prioritize information, and it also helps to identify important relationships between data – for example between a journal article and a patent. No other tool allows you to see – in one place using a single search – patents, protocols, tools and papers related to any scientific subject.”

Dr. Paul Rennert, Senior Scientist, Immunology, Biogen Idec.
Creating the Integrated Solution in eR&D

Electronic Research Environment

**MANAGE**
- eLab Notebook

**PROCURE**
- Lab Product Search
- Procurement
- Experimental Design Tools

**DISCOVER**
- Life Science Search & Discovery

**SEARCH**
- Federated Search

**DELIVER**
- Article Delivery
- Article Order Management

- LabVelocity
- LSRC
- Article Finder Extreme
- Virtual Library
Benefits of LSRC

- Not Just ‘Repackaging Content’
- Discovery, not just search
  - Entity Extraction
  - Clustering
- Multiple Content Types
  - Cross-referenced
  - Not limited to one publisher
- Window into the Full Text through Full Text Indexing
  - Enables deep searches
    - Broaden with Expanded Search
  - Display Keywords in Context
  - Entity Extraction

Reveal Relationships
Summary

LSRC is a tool that:

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- Provides multiple methods for evaluating the usefulness of results
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