Pathway Studio®
Fact Sheet

TRANSFORM YOUR RESEARCH
Whether your research is focused on discovering new drug targets or biomarkers, repurposing existing drugs, or doing basic biological research, Elsevier’s Pathway Studio can help you analyze your experimental data to understand the biological processes critical to your work.
Introduction
Whether your research is focused on discovering new drug targets or biomarkers, repurposing existing drugs, or doing basic biological research, Elsevier’s Pathway Studio can help you analyze your experimental data to answer questions like:

- Which proteins are highly regulated in my disease of interest?
- What other functionally-related molecules might be associated with my candidate biomarker?
- Which proteins should I use for binding studies for this drug candidate?
- How does this mutation affect the metabolism of my drug candidate?

By integrating a vast knowledgebase of biological relationships with analytical and visualization tools, Pathway Studio enables scientists to explore molecular interactions, and cause and effect relationships associated with biological processes. This exploration helps you understand the underlying biology that affects development, disease progression, and drug responsiveness.

PATHWAY STUDIO TRANSFORMS YOUR RESEARCH
More content means a better chance to find novel results. Pathway Studio’s ever-growing knowledge base of molecular relationships is derived from millions of full text articles from Elsevier and other publishers, along with information from 25 million PubMed abstracts, and more than 164,000 clinical trials.

Content core:
- 10,000+ Total Journals
- 1,700+ Full-text Journals
- 25M+ PubMed Abstracts
- 200,000+ Clinical Trials

Knowledgebase of biological relationships:
- 4.0M+ full text articles from 1700 journals
- 38M+ sentence facts all viewable
- 6.1M+ high-quality relationships extracted from sentences
- 1800 professionally-curated pathways

Elsevier’s proprietary text mining technology, continually refined over the past 10 years, uses expertly-curated ontologies to process this vast collection of published data, automatically extracting biological terms, concepts, and relationships. The results are deposited into a searchable knowledgebase where you can examine every extracted sentence supporting an observation (Figure 1), giving you control over which information you believe when interpreting your experimental data, increasing confidence in your research decisions.
“I find PathwayStudio indispensable. It is the only pathway analysis software package where I can integrate in-house data.”

– Researcher, Federal Government

Verified by TechValidate

PATHWAY STUDIO SUPPORTS THE WAY YOU WORK

Because every researcher and every project has unique data analysis needs, Pathway Studio is flexible to support the way you work, supporting all common laboratory data formats for gene expression data, including NGS expression (RNA-Seq) as well as NGS variant (VCF) data. Whether you need to run a simple database query to better understand the biology of a specific gene or protein (Figure 2), identify a potential drug target or biomarker, or build a complex disease model (Figure 3), you can easily access the information you need, when you need it. The latest version of Pathway Studio Web includes a completely revised user interface and significant performance improvements, at the request of customers. These changes make Pathway Studio the easiest and fastest solution for understanding the biology of diseases.

Pathway Studio is available on multiple platforms to address your data access and analysis needs. Please speak with your sales representative for more details.

<table>
<thead>
<tr>
<th>Platform</th>
<th>Capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathway Studio Web</td>
<td>Web-based access, limited need to integrate in-house data or customize database.</td>
</tr>
<tr>
<td>Pathway Studio Enterprise</td>
<td>Local or cloud database hosting, customizable database with tools to integrate in-house data.</td>
</tr>
</tbody>
</table>

KEY BENEFITS

WHAT DOES THIS MEAN FOR YOU?

- Interpret your experimental results in context of published data
- Rapidly develop and confirm experimental hypotheses for new drug targets or biomarkers
- More content from literature helps improve confidence in your experimental data interpretations

WANT TO FIND OUT MORE?

If you aren’t familiar with Elsevier’s Pathway Studio, you owe it to yourself to take a closer look. You never know what you might be missing…
Visit elsevier.com/products/solutions/pathway-studio or contact your nearest Elsevier office.

ASIA AND AUSTRALIA
Tel: + 65 6349 0222
Email: sginfo@elsevier.com

JAPAN
Tel: + 81 3 5561 5034
Email: jpinfo@elsevier.com

KOREA AND TAIWAN
Tel: +82 2 6714 3000
Email: krinfo.corp@elsevier.com

EUROPE, MIDDLE EAST AND AFRICA
Tel: +31 20 485 3767
Email: nlinfo@elsevier.com

NORTH AMERICA, CENTRAL AMERICA AND CANADA
Tel: +1 888 615 4500
Email: usinfo@elsevier.com

SOUTH AMERICA
Tel: +55 21 3970 9300
Email: brinfo@elsevier.com

PATHWAY STUDIO is a registered trademark of Elsevier Inc. Copyright © 2015 Elsevier B.V. All rights reserved.
November 2015