

ChemMeta[®]

by Praedicat

Science-based product stewardship analytics and software

ChemMeta empowers you to:

Allocate your resources better.

With understanding comes the ability to prioritize and to task your team to meet those priorities, making resource allocation efficient and targeted.

Make better and smarter decisions up front.

Bad decisions get incrementally worse as time goes by. Good decisions made up front save you time, money and headache.

Hear the signal from the noise.

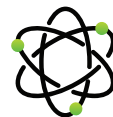
Perceived risk can be scary. It can also be unfounded. Use science to objectively differentiate real risk from perceived risk.



SCALABLE

Evaluates 3,500+ chemicals and 1,500 pharmaceutical ingredients.

Track emerging risks as they develop and mature.



SCIENCE-BASED

Rigorous methodology and objective insights empower informed decisions.



TRANSPARENT

No "black box" and comprehensive access to the science behind the analytics.



ACTIONABLE

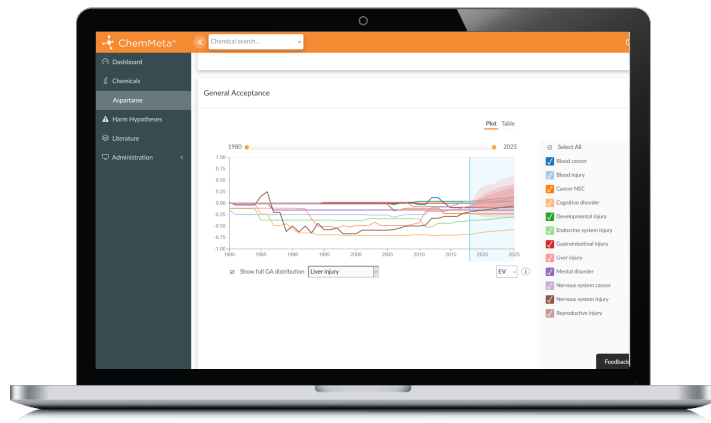
Diverse risks characterized on a common scale, allowing "apples-to-apples" comparison.



Praedicat mines peer-reviewed science journals – **over 35 MILLION journal articles** – to identify signals of emerging risk **AT SCALE** and anticipate tomorrow's product risk. Praedicat models the **state and evolution of scientific literatures** to characterize risk.

ChemMeta helps businesses identify, track and manage emerging risks emanating from their ingredients and products in an unbiased and systematic way at "machine scale."

- Track the scientific literatures on thousands of chemicals and active pharmaceutical ingredients (APIs).
- Spot the new science as it emerges, identify risk trends and predict what's next.
- "Look around the corner" instead of relying on historical data.



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We have dozens of products and hundreds of ingredients. All of them are producing new science every year, and some with hundreds of new articles. It is impossible to keep up.

Senior Risk Executive
Food Company

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If we tried to evaluate these substitutes, it would take ten people a month to do what you did in a week.

Senior Product Stewardship Executive
Chemical Company

Get Ahead of the Curve

As businesses seek to outpace their competition, they need to design and bring to market safe products faster than ever, and identify emerging risks earlier than ever. Product stewardship and sustainability can no longer be based only on good judgment. Today they require technology and data.

Better Products. Safer. Faster.

- Praedicat brings the most important information to the surface, allowing corporates to make scientifically-grounded decisions.
- Business intelligence on scientific literatures reduces disagreements and aligns teams.
- Evaluate chemicals and APIs faster and make decisions that will last.

ChemMeta Has Widespread Application

- Dynamic Chemical Lists
- Product Development & Management
- Regulatory & Risk Monitoring
- Horizon Scanning
- Insurance Program Management
- Punitive Damages Defense

How ChemMeta Works

01 ChemMeta uses cutting-edge machine learning and natural language processing to build an “AI” that reads millions of peer-reviewed scientific abstracts searching for hypotheses that chemicals or APIs cause bodily injury and other harms. For example, “Chemical X causes cancer.”

02 ChemMeta combines articles into literature statistics to capture the state of the science, using a set of variables such as type of study, quality of journal, coherence of the literature findings, direction of results and other metadata. This method produces an algorithmic Hill Criteria which simulates a weight of evidence determination.

03 ChemMeta updates the literatures with new studies every week, providing up-to-date literature synthesis and innovative statistics. It captures the direction of the literature and forecasts the state of the science using predictive analytics. By predicting the evolution of science, you can be more proactive and less reactive.

04 ChemMeta delivers the results to you in a convenient, intuitive, web-based application. It displays visualizations that you can use to answer questions like, “Does Chemical X pose a future risk?” Equipped with this actionable foresight, product stewardship can make better development decisions and build safer products.

To learn more about Praedicat’s ChemMeta, contact Jason.Aarni@Praedicat.com.