

# Modernizing Regulatory Workflows: AI-Assisted Extensive Literature Screening

**agrexis**

COMBINING EXPERT KNOWLEDGE, AI, AND RESEARCH DATA MANAGEMENT

In today's data-driven regulatory landscape, success depends on how effectively data is managed, structured, and leveraged. Embedding artificial intelligence (AI) into day-to-day operations requires bridging digital innovation with regulatory expertise to deliver tailored solutions that automate repetitive work, enable data-driven decisions, and maintain traceable, compliant processes. This approach combines deep domain expertise, advanced AI, and rigorous research data management to rapidly screen and prioritize thousands of results.

## Delivering Solutions

An example for AI-assisted literature screening

For biological active substances, regulatory evidence is often drawn from public literature dispersed across heterogeneous databases, leading to large, fragmented result sets.

For microbial active ingredients, extensive searches on secondary metabolites are required to identify substances of potential concern.

Furthermore, when an ingredient is already used in areas such as food preparation, the number of database hits increases significantly. Even with well-defined search strategies, thousands of mostly irrelevant records can be returned, forcing experts to retrieve and assess countless abstracts.

AGREXIS's screening approach combines domain expertise with advanced technology to triage and prioritize results, reduce manual effort, and deliver consistent, defensible outputs – improving workflows and creating tangible value for industry partners.

### CHALLENGES

New active substances require extensive literature searches across multiple databases.

The results need to be screened for relevance, quality and regulatory fit.

Even with high exclusion rate, justification needs to be given for each decision.

OUR PIPELINE: FAST, TRANSPARENT, SCALABLE

Collect structured metadata from multiple sources

Defined categories of suitability

AI-assisted screening

All information in one place

Assessment from least to most relevant

AI-assisted high accuracy, experts confirm

### SOLUTIONS



FASTER ASSESSMENT, GREATER COVERAGE, FULL TRANSPARENCY

## Let's work together We develop AI tools for the industry

AGREXIS combines deep regulatory expertise with cutting-edge AI applications to streamline complex workflows. From literature review and data extraction to dossier generation and risk assessment, we build tailored AI solutions that are transparent, compliant, and focused on practical outcomes.

Get in touch to find out how we can help or schedule your personalized consultation today:

Michael Kurzmeier, Gertrude Knauf-Beiter & Philip Kessler

