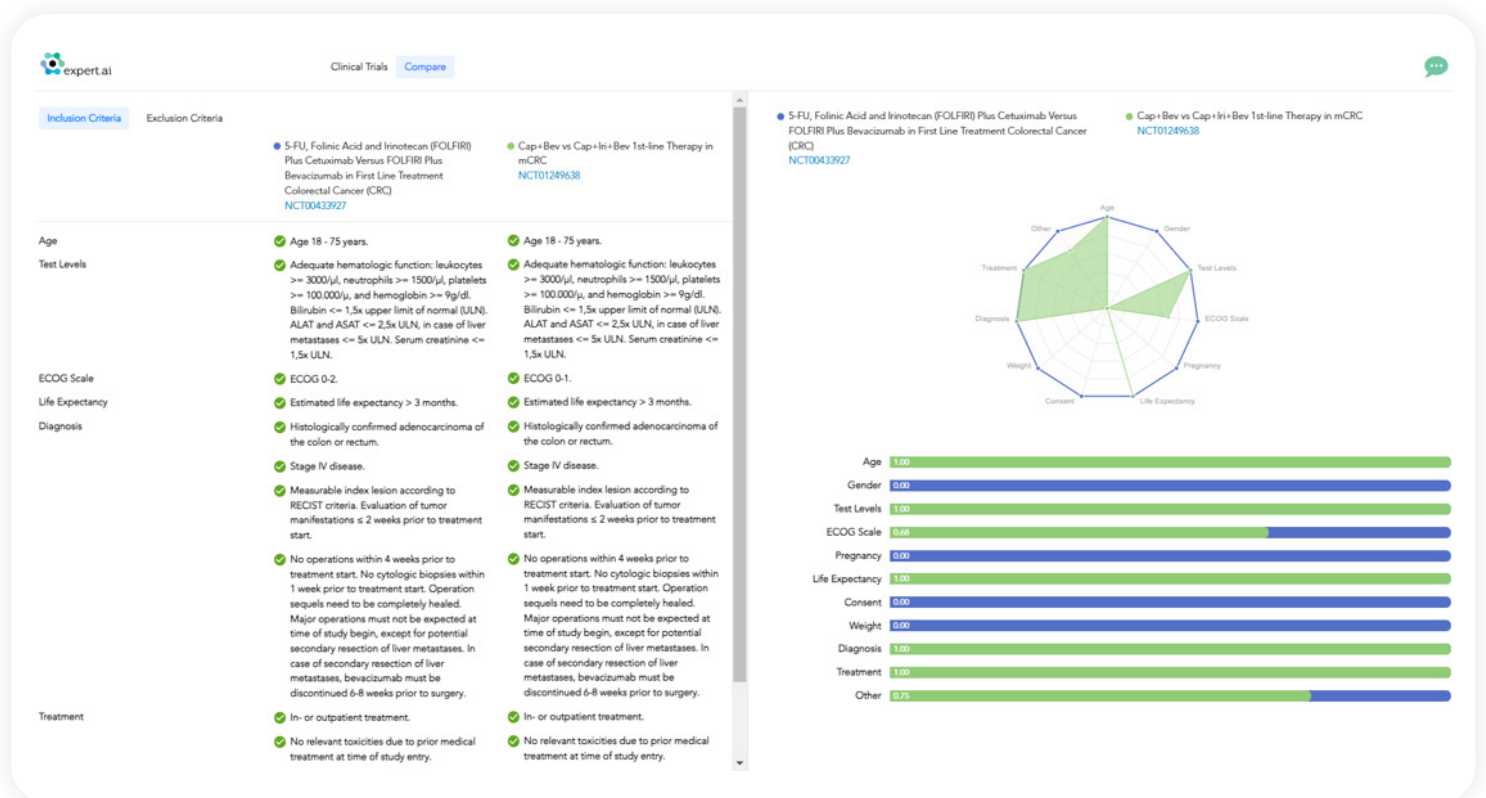


# Expert.ai Insight Engine for Life Sciences

## Enhance Pharma Insights and Protection with AI Analysis



The screenshot displays the Expert.ai Clinical Trials interface. It compares two clinical trials: NCT00433927 (5-FU, Folic Acid and Irinotecan (FOLFIRI) Plus Cetuximab Versus FOLFIRI Plus Bevacizumab in First Line Treatment Colorectal Cancer (CRC)) and NCT01249638 (Cap+Bev vs Cap+Iri+Bev 1st-line Therapy in mCRC). The interface is divided into Inclusion Criteria and Exclusion Criteria for both trials. A radar chart on the right compares the two trials across various criteria: Age, Gender, Test Levels, ECOG Scale, Pregnancy, Life Expectancy, Consent, Weight, Diagnosis, and Treatment. Below the radar chart is a horizontal bar chart showing the scores for each criterion.

Criterion	NCT00433927	NCT01249638
Age	1.00	1.00
Gender	0.00	0.00
Test Levels	1.00	1.00
ECOG Scale	0.68	0.68
Pregnancy	0.00	0.00
Life Expectancy	1.00	1.00
Consent	0.00	0.00
Weight	0.00	0.00
Diagnosis	1.00	1.00
Treatment	1.00	1.00
Other	0.75	0.75

Life sciences and pharmaceutical teams face a daunting challenge: meaningfully analyze the overwhelming volume of data vital for drug discovery and clinical insights. Integrating and analyzing data from diverse sources is difficult and time-consuming. Commercial licensing and data access restrictions further complicate the process. Even more, the lack of granularity and different taxonomies commonly used by search tools and publishers, along with the fast-paced nature of the field, puts crucial insights at risk of being missed.

Unlock new insights faster with expert.ai Insight Engine for Life Sciences. Utilize the power of AI to aggregate and mine scientific content across diverse data sources. Synthesize knowledge across clinical trials, scientific articles, and public resources. Focus on specific conditions to extract deep insights from complex biomedical data including genes, proteins, and biomarkers. Propel your R&D team to new heights with clear, accessible insights, and accelerate your drug discovery and clinical processes.

**Deliver insights to accelerate and optimize:**

- Competitive Intelligence
- Clinical Trial Design Optimization
- Intellectual Property Protection
- Scientific Literature Research Analysis

## Key Capabilities

- **Competitive Intelligence**

Stay informed about competitors' activities, including clinical trials, research findings and emerging trends accessing both public and private research articles.

- **Clinical Trial Design Optimization**

Identify suitable sites and patient populations for clinical trials, improving recruitment and allowing users to compare design complexity based on inclusion/exclusion criteria and mine schedule of assessment data in protocol documents for site and patient burden assessments.

- **Intellectual Property Protection**

Review patent claims against claims in published papers and clinical trial activity automatically alerting to potential areas of infringement and/or licensing opportunities.

- **Scientific Literature Research Analysis**

Access and analyze a vast amount of relevant information, speeding up the discovery and development of new drugs and therapies.

## Key Benefits:

- **Unified Source and Schema:** Access real-time coverage of all relevant life sciences data sources available (public, subscription-based or private) under a unified semantic schema and taxonomy for specific therapies.

- **Claim Validation:** Automatically analyze and validate specific scientific claims to see if they are confirmed, or not, against a set of trusted sources based on a combination of semantic similarity analysis and Generative AI Retrieval Augmented Generation (RAG) approaches.

- **Novelty Analysis:** Compare trusted life sciences resources with domain-specific Knowledge Graphs and Large Language Models to identify new, relevant and valuable information for drug discovery.

- **Explainable and Transparent Results:** Trace insights in an explainable and transparent way down to the source document level, empowering decision makers to drive innovation and accelerate development of new pharmaceutical products with confidence.

- **Life Sciences Knowledge Graph:** Leverage Generative AI capabilities alongside a rich life sciences specific Knowledge Graph that contains millions of relationships, 450k drug interventions and 100k disease conditions, supporting automated classification and relationship detection across diverse sources.

- **Customizable Search Results and Dashboards:** Compare trusted life sciences resources with domain-specific Knowledge Graphs and Large Language Models to identify new, relevant and valuable information for drug discovery.



### About us

Expert.ai (EXAI:IM) is a leading company in AI-based natural language software. Organizations in insurance, banking and finance, publishing, media and defense all rely on expert.ai to turn language into data, analyze and understand complex documents, accelerate intelligent process automation and improve decision making.

[www.expert.ai](http://www.expert.ai)