

Scopus® AI

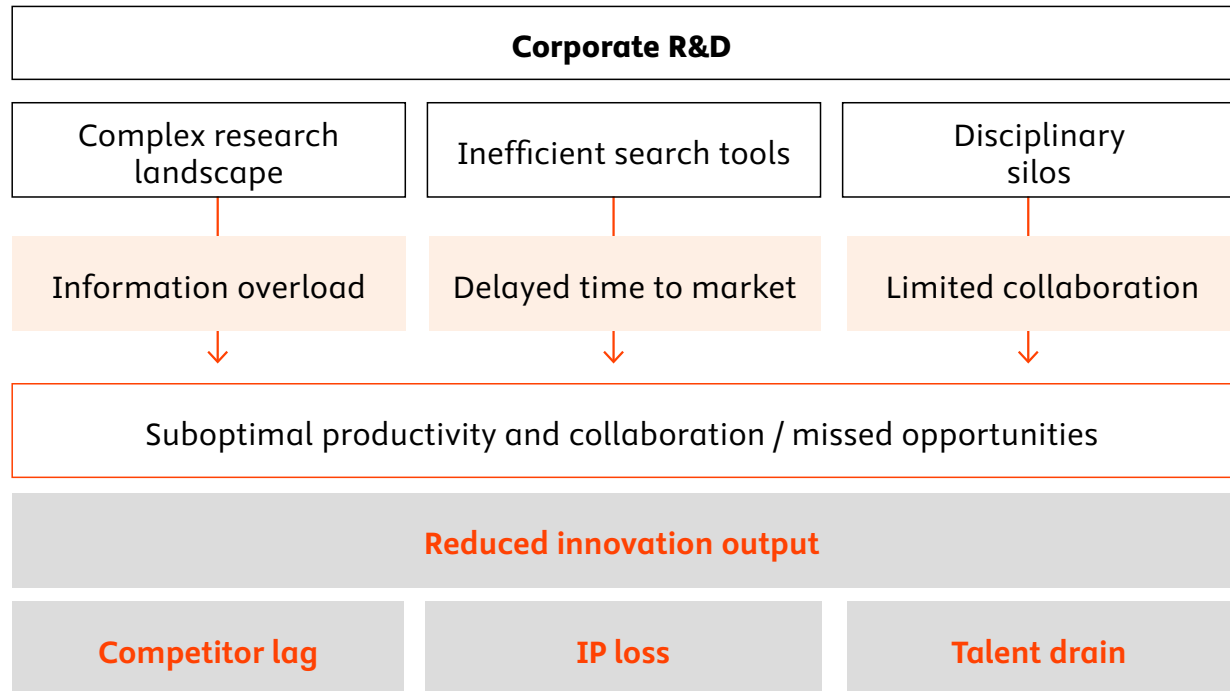


Scopus AI for R&D:
Trusted content.
Powered by responsible AI.



There are many challenges in Corporate R&D today

Today's researchers face significant challenges, particularly when trying to quickly learn about new research topics. The overwhelming abundance of information and inadequate search tools make it difficult to sift through and apply relevant literature, leading to inefficiencies in the innovation process. Moreover, disciplinary silos impede collaboration, further diminishing potential productivity. This hampers innovation, risking competitive disadvantage, loss of intellectual property and talent drain.



GenAI has the potential to help

However, many of the GenAI tools on the market today are **unable to deliver the type – and range – of insights you need** when learning about a new field. For example:

- The topic essentials
- Important ideas and emerging themes
- Key opinion leaders in your field

Crucially, many **lack transparency** around how they work — and even the content they draw on.



Introducing Scopus AI

Scopus AI is an intuitive and intelligent search tool informed by GenAI that draws exclusively on the trusted, curated content in Scopus.

Built in close collaboration with the academic community, it has been designed to respond to your natural language queries with focused and easy-to-understand insights on new terms, concepts and disciplines.

What use cases does Scopus AI support?

- **Finding references**
- **Getting familiar** with a new topic
- **Deepening understanding** of a research topic
- **Better articulating** a hypothesis or innovation bet
- **Explaining a complex topic** to juniors / non-experts



What is included in a Scopus AI response?

Summary

A fully referenced Summary that includes guidance on the tool's confidence in the response.

Expanded summary

An extended referenced summary that explores each query from multiple perspectives.

Go deeper questions

A series of prompts designed to help you continue exploring and learning.

Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space.

Foundational documents

A list of influential articles that inspired the articles cited in the summaries.

Topic experts

The top researchers in your chosen field (based on their volume of related publications).

NEW: Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity; for example, those that are new or currently underserved by the literature.

What Scopus AI users are saying:

“The expanded summaries provided by this resource sparked numerous ‘aha’ moments for me, encouraging me to delve into topics with newfound depth and curiosity.”

“I’ve encountered teams hesitant to embark on a literature review at the start of a project due to uncertainty about conducting effective search queries. Scopus AI serves as the ideal solution for such challenges.”

Natural language queries

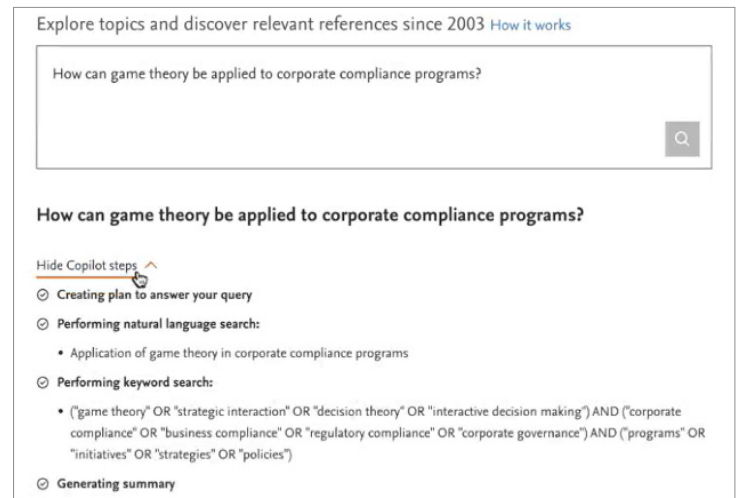
Your search, your way

Ask questions on your chosen topic in a natural, conversational manner, supported by our powerful new **Copilot search tool**.

Benefits of Copilot

- Can combine both vector and keyword search
- Breaks down and optimizes queries to improve the specificity of results
- Supports queries in multiple languages
- Accepts longer text queries
- Considers more results

Copilot also provides a transparency layer that explains exactly how the tool has broken down and optimized your query. **It is one of very few GenAI solutions on the market to do this.**



Explore topics and discover relevant references since 2003 [How it works](#)

How can game theory be applied to corporate compliance programs?

How can game theory be applied to corporate compliance programs?

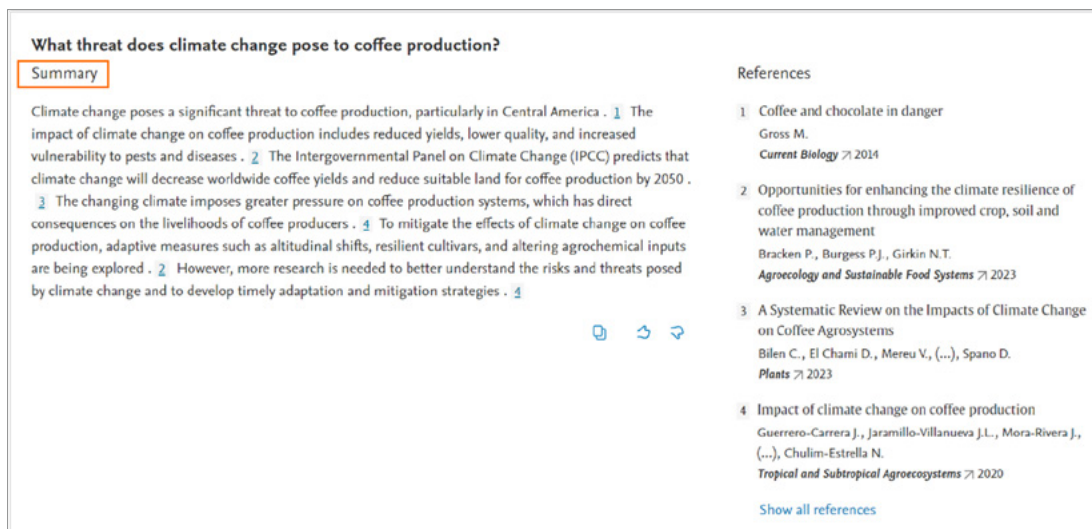
Hide Copilot steps ^

- ⊙ Creating plan to answer your query
- ⊙ Performing natural language search:
 - Application of game theory in corporate compliance programs
- ⊙ Performing keyword search:
 - ("game theory" OR "strategic interaction" OR "decision theory" OR "interactive decision making") AND ("corporate compliance" OR "business compliance" OR "regulatory compliance" OR "corporate governance") AND ("programs" OR "initiatives" OR "strategies" OR "policies")
- ⊙ Generating summary

Summaries with Scopus references

Learn about your chosen topic:

- The **easy-to-digest Summary** provides a concise response to your initial query.
- The **Expanded summary** offers more depth and a wider range of perspectives.



What threat does climate change pose to coffee production?

Summary

Climate change poses a significant threat to coffee production, particularly in Central America . 1 The impact of climate change on coffee production includes reduced yields, lower quality, and increased vulnerability to pests and diseases . 2 The Intergovernmental Panel on Climate Change (IPCC) predicts that climate change will decrease worldwide coffee yields and reduce suitable land for coffee production by 2050 . 3 The changing climate imposes greater pressure on coffee production systems, which has direct consequences on the livelihoods of coffee producers . 4 To mitigate the effects of climate change on coffee production, adaptive measures such as altitudinal shifts, resilient cultivars, and altering agrochemical inputs are being explored . 2 However, more research is needed to better understand the risks and threats posed by climate change and to develop timely adaptation and mitigation strategies . 4

References

- 1 Coffee and chocolate in danger
Gross M.
Current Biology 2014
- 2 Opportunities for enhancing the climate resilience of coffee production through improved crop, soil and water management
Bracken P., Burgess P.J., Girkin N.T.
Agroecology and Sustainable Food Systems 2023
- 3 A Systematic Review on the Impacts of Climate Change on Coffee Agrosystems
Bilen C., El Chami D., Mereu V., (...), Spano D.
Plants 2023
- 4 Impact of climate change on coffee production
Guerrero-Carrera J., Jaramillo-Villanueva J.L., Mora-Rivera J., (...), Chulim-Estrella N.
Tropical and Subtropical Agroecosystems 2020

Show all references



Transparency and context about our confidence in the responses

The prompt engineering guides the large language model to signpost in the summaries how relevant the response is to your query.

In this example, the language at the top of the Summary makes it clear that confidence in the response is medium, while the last paragraph adds nuance about the information available.

Explore topics and discover relevant references since 2013 [How it works](#)

Do RPL18 mutations cause DBA

 Copilot 

Do RPL18 mutations cause DBA

[Show Copilot steps](#) ▾

Summary

Based on the available abstracts, it can be inferred that mutations in ribosomal protein L18 (RPL18) are associated with Diamond-Blackfan anemia (DBA) [1](#) [2](#) . Here's a summary of the relevant findings:

- **Association with DBA:** Mutations in RPL18 have been identified in DBA patients, and the deficiency of RPL18 mirrors the erythroid defects observed in DBA [1](#) .
- **Pathogenesis:** Research using a zebrafish model demonstrated that RPL18 deficiency leads to a lack of mature red blood cells and activates the JAK2-STAT3 pathway, suggesting its involvement in the pathogenesis of DBA [1](#) .
- **Genetic Aetiology:** Whole exome sequencing analysis identified a non-synonymous variant in RPL18 in a family with DBA, resulting in pre-rRNA processing defects [2](#) .
- **Implications:** The identification of RPL18 mutations in DBA patients provides insights into the genetic basis of the disease and its potential role in ribosomal function and erythropoiesis [1](#) [2](#) .

In conclusion, the available evidence supports the association of RPL18 mutations with DBA, shedding light on the genetic underpinnings and potential pathogenic mechanisms of the disease.

Go deeper queries

Continue learning and exploring

Scopus AI generates three **Go deeper questions** for each query that help you drill down and broaden your understanding.

Foundational documents

Discover influential papers

The list of **Foundational documents** illustrates which papers heavily influenced the documents that Scopus AI used to write its response, specifically the Summary.

Foundational documents

189 citations

The ribosomal basis of diamond-blackfan anemia: Mutation and database update
I., Boria, Ilenia, E., Garelli, Emanuela, H.T., Gazda, Hanna T., (...), I., Dianzani, Irma
Human Mutation ↗ 2010

336 citations

Ribosomal Protein L5 and L11 Mutations Are Associated with Cleft Palate and Abnormal Thumbs in Diamond-Blackfan Anemia Patients
H.T., Gazda, Hanna T., M.R., Sheen, Mee Rie, A., Vlachos, Adrianna, (...), A.H., Beggs, Alan H.
American Journal of Human Genetics ↗ 2008

[Show more documents](#)

Topic experts

Scopus AI draws on the rich Author Profiles in Scopus to introduce the most active authors in your chosen field, along with explanations of their relevant expertise.

Topic Experts ^

[Ramalho, José C. J.C.](#)
| 3578 citations | 5 matching documents | 41 h-index

José C. Ramalho is an expert in the impact of climate change on coffee production, as evidenced by their research on the biochemical and molecular responses of coffee plants to supra-optimal temperatures and elevated CO₂, as well as their investigation into the effects of drought, warming, and high CO₂ on coffee in the context of future climate change scenarios.

[Van Asten, Piet J.A. P.J.](#)
| 2875 citations | 3 matching documents | 31 h-index

Piet J.A. Van Asten is an expert in the adaptation strategies of coffee production to climate change. Their work focuses on understanding the critical thresholds for global coffee production under climate change, the influence of vapour pressure deficit on coffee ripening, and the exploration of adaptation strategies for coffee production in the face of climate change using process-based models.

Emerging themes

Identify your next research area

This new feature provides a comprehensive map of the themes in your selected research area and identifies the 'whitespace' you can use to target your organization's future efforts.

Explore topics and discover relevant references since 2003 [How it works](#)

Arctic and Antarctic Climate Cooperation Novel Theme

The emerging focus on climate cooperation in the Arctic and Antarctic regions represents a novel theme. This theme explores the unique challenges and opportunities for international collaboration in these polar regions, which are critical for understanding and mitigating global climate change impacts.

[Show references](#)

Potential Hypotheses:

- International cooperation in the Arctic and Antarctic regions can provide critical insights and solutions for global climate change mitigation
- Enhanced scientific collaboration in polar regions can lead to more effective climate policies and adaptation strategies

Scopus AI champions responsible AI

In 2022, we published 5 Responsible AI Principles that complement our existing AI policies and processes.

These principles have shaped every stage of Scopus AI's development and will continue to guide the tool's evolution.

Our Responsible AI Principles:

1. We consider the real-world impact of our solutions on people.
2. We take action to prevent the creation or reinforcement of unfair bias.
3. We can explain how our solutions work.
4. We create accountability through human oversight.
5. We respect privacy and champion robust data governance.

[Click here](#) for more on Elsevier's Responsible AI Principles.

Scopus AI uses only high-quality, curated Scopus content

Every Scopus AI response is grounded in content that has been vetted by independent experts.

It has not only been peer reviewed, it has also been rigorously vetted and selected for inclusion in Scopus by the independent Content Selection and Advisory Board (CSAB).

Journals must demonstrate their ability to maintain their quality status every year as part of the Scopus reevaluation program.

Stage 1 ~3,500 title suggestions per year on average

Stage 2 ~51% meet the Scopus minimum criteria

Stage 3 ~48% are accepted after the CSAB's review

Result ~857 serial titles meet the full Scopus criteria



The CSAB

Scopus AI is transparent and always shows its workings

We've made Scopus AI responses easy to evaluate, verify and confirm.

Every claim or assumption cites the Scopus documents used to generate it. And because Scopus AI is built on Scopus, the references can be downloaded in bulk to your preferred reference manager, or to SciVal for further analysis.

Scopus AI provides guidance on its confidence in the relevancy of its response and can explain the technology it uses.

Scopus AI takes action to prevent unfair bias

Scopus AI is committed to preventing the creation or reinforcement of all forms of unfair bias.

We draw on a potent mix of guidelines, evaluation, technology and human oversight to help us achieve this.

For example, we actively test Scopus AI for biased responses using a variety of internationally-recognized frameworks.

1. We use only trusted Scopus data
2. We focus on relevancy of content, not impact
3. We conduct rigorous evaluations
4. We provide the LLM with strict guidance
5. We learn from user testing



Scopus AI respects data privacy

We have designed Scopus AI to avoid unnecessary data retention.

For example, Scopus AI uses OpenAI's large language model (LLM) ChatGPT hosted on Microsoft Azure to synthesize results found by our vector search. We have an agreement in place that information will not be stored or used to train OpenAI's public model.

We also comply with privacy regulations like GDPR.

Scopus AI draws on a unique & powerful blend of technology

Scopus AI's strength lies in the way its technologies interact with the underlying data.

For example, the sophisticated **Copilot search** and custom-built **small language model** source the most relevant Scopus content, while the **prompt engineering** ensures the quality of the large language model's response.

In addition, **Scopus AI is home to our patent-pending Retrieval-Augmented Generation (RAG) Fusion and Vector Calculation Service technologies.**

The Scopus AI difference

Generalist GenAI tools

Value:

- Sophisticated LLMs
- Free versions

Potential red flags:

- Often draw on generic, non-peer reviewed content
- Answers may contain gaps or extraneous content
- Can fabricate references
- Sit outside research workflow
- Trained on older data
- Privacy is not always guaranteed

Other academic GenAI tools

Value:

- Free versions exist
- Some citable sources

Potential red flags:

- Content can be limited or non-transparent
- May include duplicate data
- May include less trusted content
- May be outside current research workflow tools
- Often require additional login/access

Scopus® AI

Value:

- Uses reliable, curated, peer-reviewed content
- Leverages patent-pending technology
- Designed in close collaboration with the academic community
- Developed using responsible AI principles for transparency, privacy and trust
- Evaluation & quality frameworks ensure minimal hallucinations

Trusted content that champions academic integrity

Cutting-edge technology that saves you time

Focused, reliable results for actionable insights

Learn more about Scopus AI for R&D

Discover how Scopus AI can support your R&D.

Visit the [Scopus for R&D](#) site for more information, or get in touch with us by filling out the form on [this page](#).



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