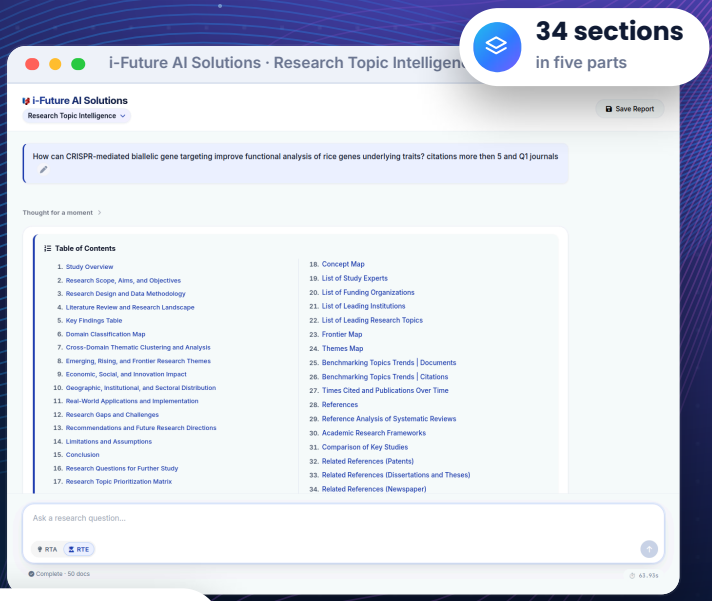
RESEARCH TOPIC INTELLIGENCE

Research Topic Expert (RTE)

Drives deep exploration, transforming diverse topics into global excellence with life, social, and economic impact.

RTA · Assistant
Discover and refine a topic in the early, exploratory phase.

RTE · Experts
In-depth, expert-level analysis for a proposal, review chapter or grant.



50 docs · 64 s
example RTE report

Visit www.ifuture.info →

Contact us

460M+	206K+	27M+	76+	34	80K–350K
indexed records	scholarly journals	researcher profiles	indicator databases	sections in an RTE report	new records added per week

WHY RTE

We Bridge the Gap to Unify the Research Landscape

The challenge

Most researchers **struggle to validate new topics** due to data overload, leaving many **unable to pursue groundbreaking research**.

The RTE answer

Research Topics Expert AI **replaces guesswork with data**, visualizing global trends to shape clear and multidimensional research questions.

- **Accelerates innovation**
- **Strengthens economic investment**
- **Informs social priorities**
- **Guides policy decisions**
- **Empowers institutions with strategic positioning**

Precision
Results constrained by explicit filters and ranked by semantic relevance, not keyword overlap.

Transparency
Generated statements are linked to the references that support them.

Breadth
Articles, books, theses, patents, legal material and news, so interdisciplinary links become visible.

EVIDENCE FOUNDATION

The Knowledge Base Behind Every Answer

The quality of any AI-assisted literature review is bounded by the evidence it can reach. i-Future AI indexes a multi-source corpus, enriched with quality and impact indicators and refreshed every week.

Source collections

Records per collection, in millions



Collections overlap (many open-access documents are also journal articles), so figures are not additive.

Entity profiles

What powers the expert, institution and funding lists

27M+
Researcher profiles

1.2M+
Research topics

160K+
Organisation profiles

94K+
Active funder profiles

80K–350K new records added every week, so answers reflect both established and recent scholarship.

Why coverage matters: profiles of researchers, organisations and funders let the platform go beyond summarising papers. Record the platform, search date and filters, because a weekly-updated corpus returns different results over time.

VALIDATED INDICATORS

Quality Signals and How to Use Them

Each signal answers a different question about a source; none is sufficient alone. Treat every signal as evidence to be interpreted, never as a verdict.

SIGNAL	WHAT IT INDICATES	KNOWN BIAS	USE IT TO…
Journal quartile (Q1–Q4)	The journal's rank in its subject category by an impact metric; Q1 = top 25 %.	Describes the journal, not the article.	Prioritise established venues.
Citation count	How often a work has been cited, a proxy for uptake.	Favours older papers and large fields.	Surface foundational work.
Publication year	Recency of the evidence.	Recent work is less validated.	Track the state of the art.
Indexing status	Inclusion in recognised citation indexes.	Under-represents regional and non-English venues.	Meet institutional requirements.
SDG alignment	Relevance to the UN Sustainable Development Goals.	Tagging is automated and broad.	Frame impact statements.
Region & discipline	Geographic and disciplinary origin of the work.	Multi-country work is hard to attribute.	Build regional or cross-disciplinary reviews.

Foundational literature
High citations · all years · Q1–Q2

State of the art
Last 3–4 years · no citation filter

Rigorous review base
Q1–Q2 · 10-year window · modest citations

Regional evidence
Region/topic · Q1–Q4 · no citation filter

KEY CAPABILITIES

Validate and Refine Your Research Topics

Topic Discovery & Personalization

Rapidly surfaces tailored, actionable research topics from your interests, past work, and field gaps.

Trend Forecasting & Funding Fit

Predicts emerging directions and scores topics for societal impact, commercial opportunity, and funder alignment.

Cross-Disciplinary Collaboration

Generates interdisciplinary angles and identifies strategic partners, labs, and innovation hubs.

Feasibility, Methods & Literature

Accelerates literature reviews and filters topics by required methods, data needs, ethics, and practical feasibility.

Publication, Outreach & Impact

Recommends ideal journals, conferences, and dissemination strategies to maximize visibility, citations, and real-world uptake.

THE OUTPUT

A 34-section expert report, in five parts

Inside the report →

HOW IT WORKS

The Evidence Pipeline: Eight Stages

Evidence is **retrieved first and generated second** (retrieval-augmented generation), anchoring the language model to real sources, the principal safeguard against fabricated content.

1 Ask
Question, topic, title, abstract or chapter.

2 Scope
Dates, discipline, quartile, citations, SDGs, region.

3 Decompose
Intent parsed into keywords and topics.

4 Retrieve
Vector search matches meaning, not just words.

5 Rank
Credibility, recency, citation strength, impact.

6 Synthesise
LLM writes a structured, audience-aware answer.

7 Verify
Claims linked to citations and confidence indicators.

8 Deliver
Report, tables, maps and reference list.

Interpret your query · Retrieve & rank evidence · Generate & verify the answer

Knowledge base: 460M+ records · 76+ indicator databases · weekly updates

ASK PRECISELY

Anatomy of a Query: Input + Optional Preferences

REQUIRED
Research input
`Topic · Title · Abstract`

+

CITATION
Uptake
`cited by at least 50`

JOURNAL QUALITY
Quartile
`Q1, Q2`

YEAR
Period
`2018 TO 2022`

SUBJECT / TOPIC
Field
`Subject: Medicine`

→

RESULT
Precise answer
Retrieval limited to evidence meeting every preference.

RTE EXAMPLE

How can CRISPR-mediated biallelic gene targeting improve functional analysis of rice genes underlying traits? citations more than 5 Q1

RTA OR RTE?

RTE Adds the Sections an Expert Review Requires

FEATURE	RTA REPORT	RTE REPORT
Purpose	Discover and refine a topic	Expert-level analysis of a chosen topic
Methodological framing	Implicit	Explicit: scope, aims and objectives; research design and data methodology
Literature landscape	Overview, analysis and synthesis	Literature review, domain classification, cross-domain clustering, frontier themes
Context and impact	Implications and frameworks	Economic, social and innovation impact; geographic and sectoral distribution; applications
Research agenda	Gaps, recommendations, prioritisation matrix	Adds research questions for further study
Panels and evidence	17 panels (12–28)	The same 17 panels (18–34)

Two example reports, side by side

RTA · G-quadruplex query
RTE · CRISPR rice query

Sections in the report
RTA 28
RTE 34

Narrative sections
RTA 11
RTE 17

Documents in evidence set
RTA 30
RTE 50

Generation time
RTA 40 s
RTE 64 s

Values are from two different queries; evidence-set size and time vary with topic and preferences.

INSIDE YOUR RTE REPORT

34 Sections in Five Parts

Part I Framing the Study 1–5

1. Study Overview
2. Research Scope, Aims, and Objectives RTE
3. Research Design and Data Methodology RTE
4. Literature Review and Research Landscape RTE
5. Key Findings Table

Part II Mapping the Field 6–11

6. Domain Classification Map RTE
7. Cross-Domain Thematic Clustering and Analysis RTE
8. Emerging, Rising, and Frontier Research Themes RTE
9. Economic, Social, and Innovation Impact RTE
10. Geographic, Institutional, and Sectoral Distribution RTE
11. Real-World Applications and Implementation RTE

Part III Critical Synthesis and Agenda 12–17

12. Research Gaps and Challenges
13. Recommendations and Future Research Directions
14. Limitations and Assumptions
15. Conclusion
16. Research Questions for Further Study RTE
17. Research Topic Prioritization Matrix 30 topics ranked

Part V Evidence Base 28–34

28. References citations · quartile · DOI
29. Reference Analysis of Systematic Reviews
30. Academic Research Frameworks
31. Comparison of Key Studies 50+ references
32. Related References (Patents) 15+
33. Related References (Dissertations and Theses) 15+
34. Related References (Newspaper) 15

Part IV Scholarly Intelligence and Visual Analytics 18–27

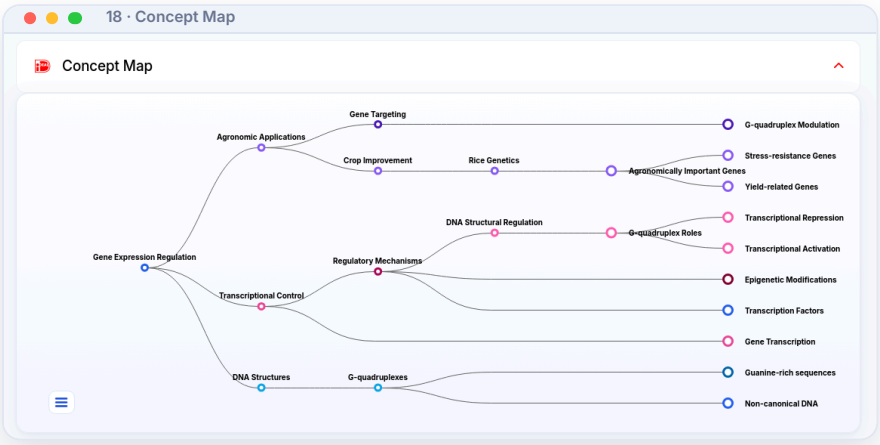
18. Concept Map see p.5
19. List of Study Experts
20. List of Funding Organizations 20 funders
21. List of Leading Institutions top 25
22. List of Leading Research Topics 20 topics · 6 metrics
23. Frontier Map see p.5
24. Themes Map see p.5
25. Benchmarking Topics Trends | Documents see p.5
26. Benchmarking Topics Trends | Citations
27. Times Cited and Publications Over Time see p.5

RTE Section unique to expert mode (not in an RTA report) · see p.5 Chart shown in the visual analytics showcase

VISUAL ANALYTICS SHOWCASE

See the Field: Maps and Trends in Every Report

From the User Guide 2026 worked case study: G-quadruplex DNA structures regulating gene expression in plants.

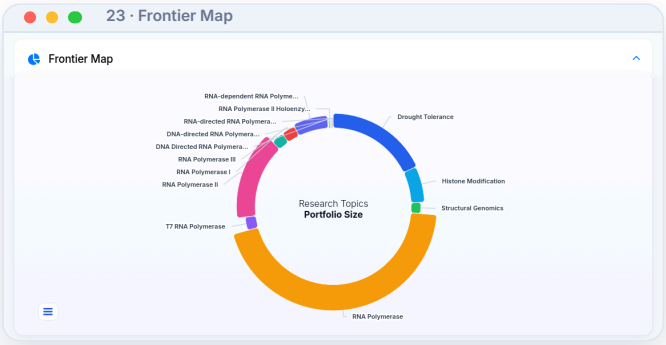


18 Concept Map — STRUCTURE

What is the topic made of? A hierarchical tree read left to right: the root concept, first-level branches (the main dimensions), then the most specific leaf concepts.

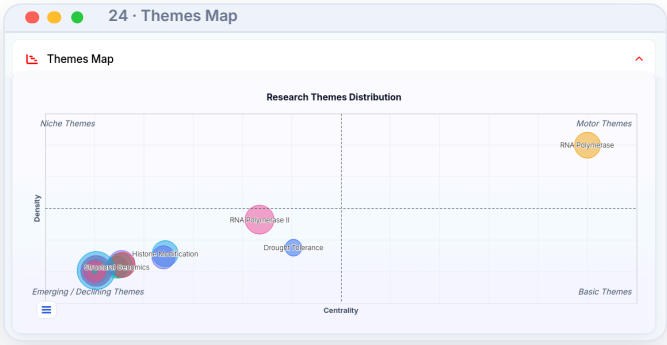
Reading this example: G-quadruplexes appear in all three branches (structure, regulatory role and modulation target), making them the integrating construct of the field.

Use it in your thesis: redraw the map as your conceptual framework and support each relationship with a reference.



23 Frontier Map — POSITION

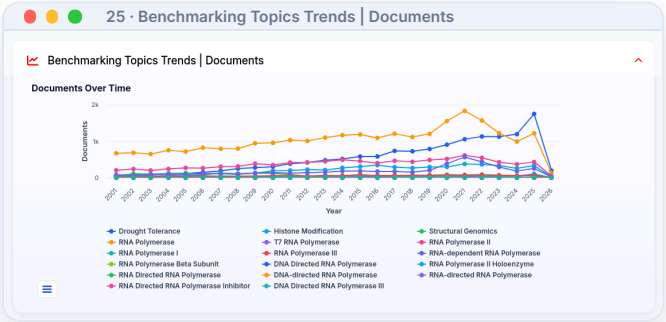
Each slice is a related research topic; arc length reflects **portfolio size** (publication output, funding or citation influence). **RNA Polymerase** accounts for about half of all documents among the five leading topics (36,624 of 74,053).



24 Themes Map — POSITION

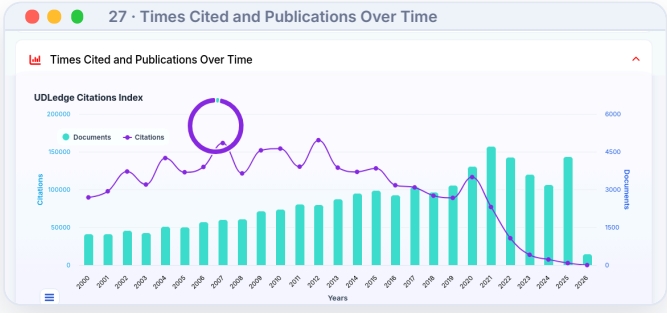
A strategic diagram: **centrality** (importance to the field) across, **density** (internal maturity) up. Quadrants: motor, niche, basic, and emerging or declining. Here **RNA Polymerase** is the single motor theme.

Read across the panels. On the Themes Map alone, Drought Tolerance could be emerging or declining. Its document trend resolves it: an **emerging theme with strong momentum**.



25 Topics Trends | Documents — DYNAMICS

Annual documents per topic, 2001–2026. **Drought Tolerance** grows from about 70 documents (2001) to about 1,750 (2025), overtaking RNA Polymerase in 2024. The 2026 value is a partial year.



27 Times Cited & Publications — DYNAMICS

Bars show documents per year; the line tracks citations. Output grows almost **fourfold**, from about 1,200 (2000) to a peak of about 4,700 (2021): a maturing, expanding field.

I-FUTURE AI · KNOWLEDGE ECOSYSTEM

Every question unlocks innovation.

Connecting citations, funding, expertise, collaboration, concepts, themes and frontier maps, so that researchers can focus on insight, originality and the pursuit of breakthrough ideas.

Quick start: your first report · about five minutes

1. **Sign in**
   Use your institutional email and complete both sign-in steps.
2. **Choose RTI**
   Select Research Topic Intelligence; pick RTA or RTE.
3. **Ask precisely**
   Type a topic, title or abstract and add preferences with cue words.
4. **Read smartly**
   Overview, key findings, limitations, then the references.
5. **Verify & keep**
   Open cited sources, then Save Report and download the PDF.

i-FUTURE™ AI

Knowledge Ecosystem

Kscience Sdn. Bhd.

Level 1, Incubation & Innovation Centre (IIC),
MRANTI Technology Park, Bukit Jalil, 57000,
Kuala Lumpur, Malaysia.

Tel: +603-8999 4441 / +6018 3712778

Email: info@ifuture.info | info@udledge.com

For more information: www.ifuture.info

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