rayyan

THE PIONEER OF AI ASSISTED SYSTEMATIC REVIEW

EST. 2014
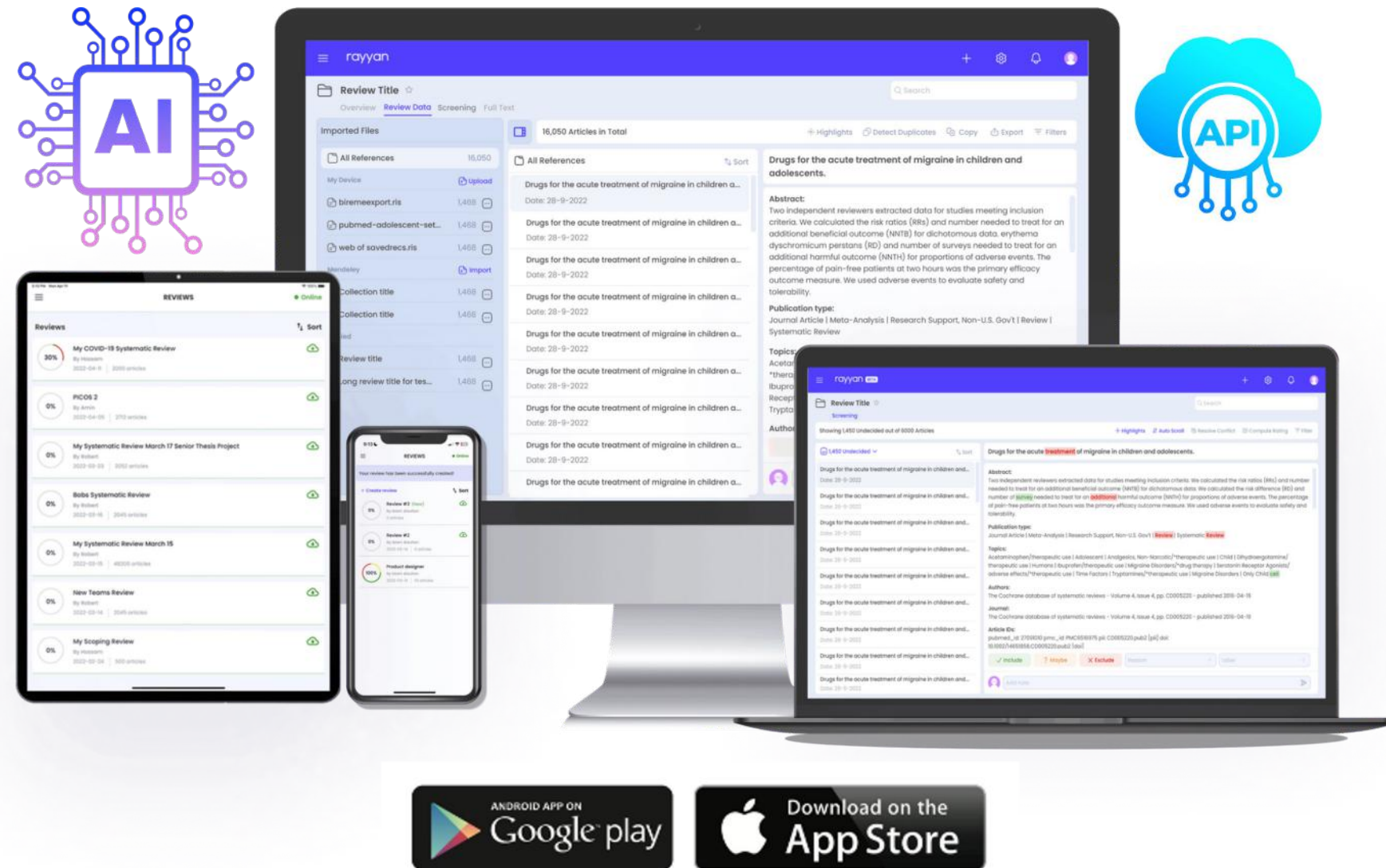
Rayyan is the pioneering AI-powered platform redefining evidence-based research & decision-making.

rayyan

rayyan

We envision a world guided by the best available evidence.

Our mission is to accelerate evidence-based decision-making.

rayyan

Rayyan's Growing Impact on Research

1 Billion+
References Reviewed

600,000+
researchers

20,000+
organizations

190+
Countries

Over one million evidence-based research projects have been conducted using Rayyan.

rayyan

Global Challenges to Evidence-Based Research

**Daunting Volumes of Information
+2.5 Million New Articles Per Year**

Key Challenges

- Commit teams of researchers for 12-24 months
- Adhere to a proper protocol
- Exhaustively search for evidence
- Eliminate duplicate data
- Work collaboratively and systematically
- Consistently determine what is relevant
- Mitigate against sources of bias & poor quality
- Report reliable & trustworthy evidence
- Provide transparency & reproducibility
- Ensure reporting is up-to-date

*and be first...*

rayyan

rayyan
Be First

Being first makes all the difference when you want to **publish**, **patent**, **commercialize** or **fund** new research.
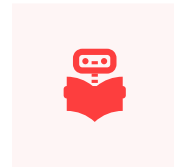
In the fast-paced world of research, the ability to swiftly and accurately sift through millions of articles is no longer just an advantage—**it's a necessity**.
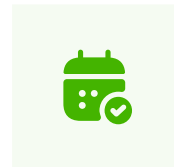
Because no one cares about second place.

Your Name

rayyan

Researchers Report Time Savings of 50-90%, Reducing Months & Weeks to Days
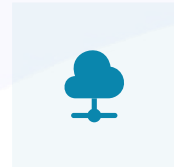
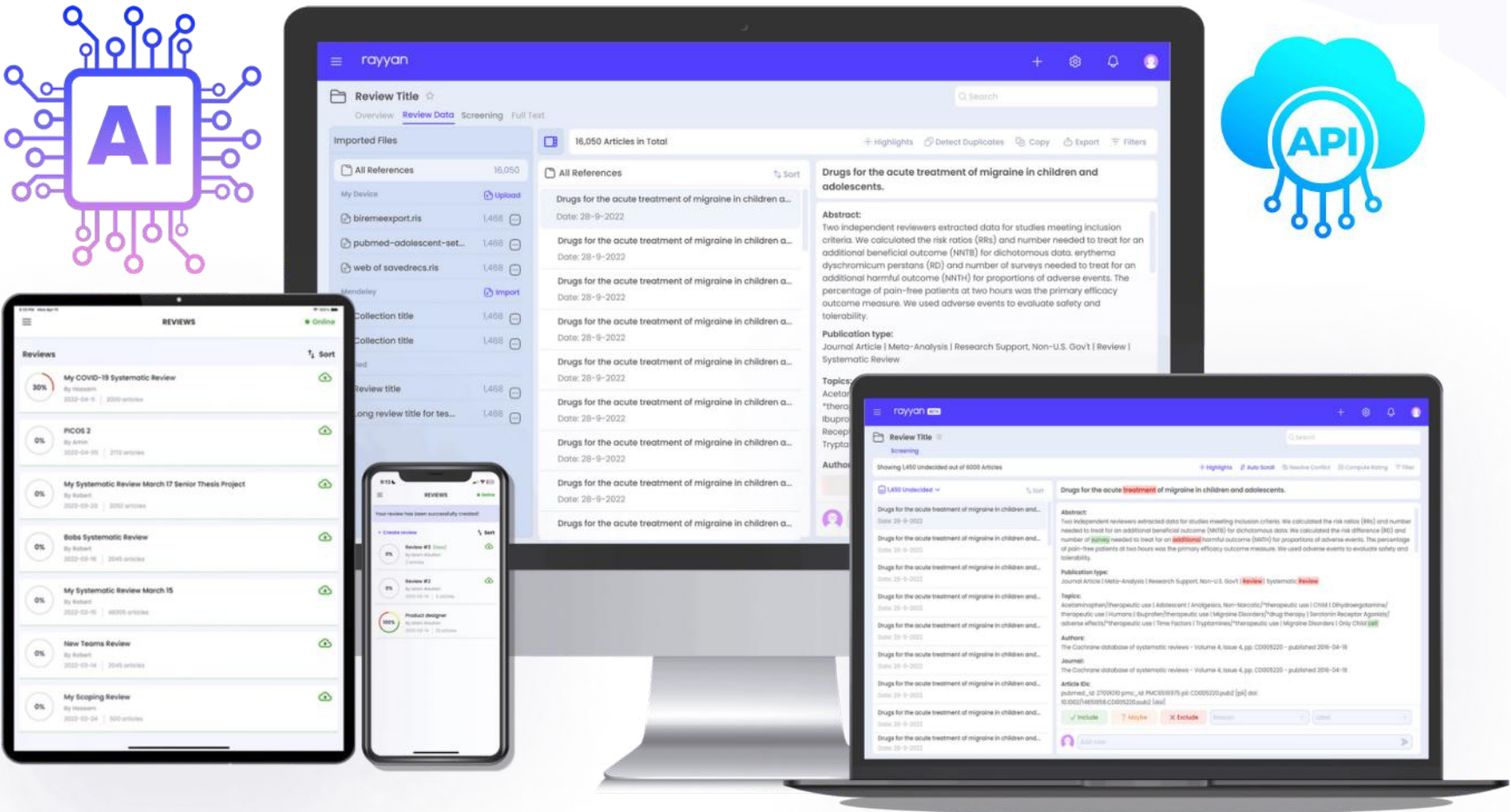**AI Assisted Workflow Saves Time**
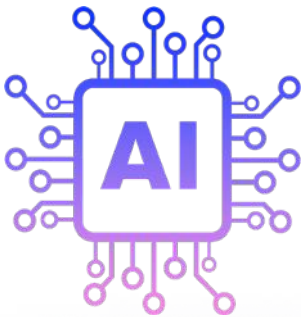
Instantly Organizes Unstructured Datasets

Transparent, Auditable, & Reproducible

Cloud Based Team Collaboration

Personalized and Accessible to Conform to You

Developed using proprietary AI, ML & NLP models.
A new LLM research assistant is in Alpha release.

Scalable, Intelligent, Intuitive.

rayyan

*Source: Rayyan customer satisfaction survey data.

Designed for Accuracy. Built for Speed.

85% of respondents report saving months, weeks or days of work.*

*per customer survey data (>50-90% time savings)

% Time Savings

Key Benefits

- Streamline reviews, slashing time by 50-90%
- Accelerate publishing and commercialization
- Save time & cut research costs
- Boost productivity & research output
- Make more informed decisions
- Deliver life changing & life saving interventions
- Meet important deadlines
- Reduce the stress among your research teams
- Provides the edge in the race to be first
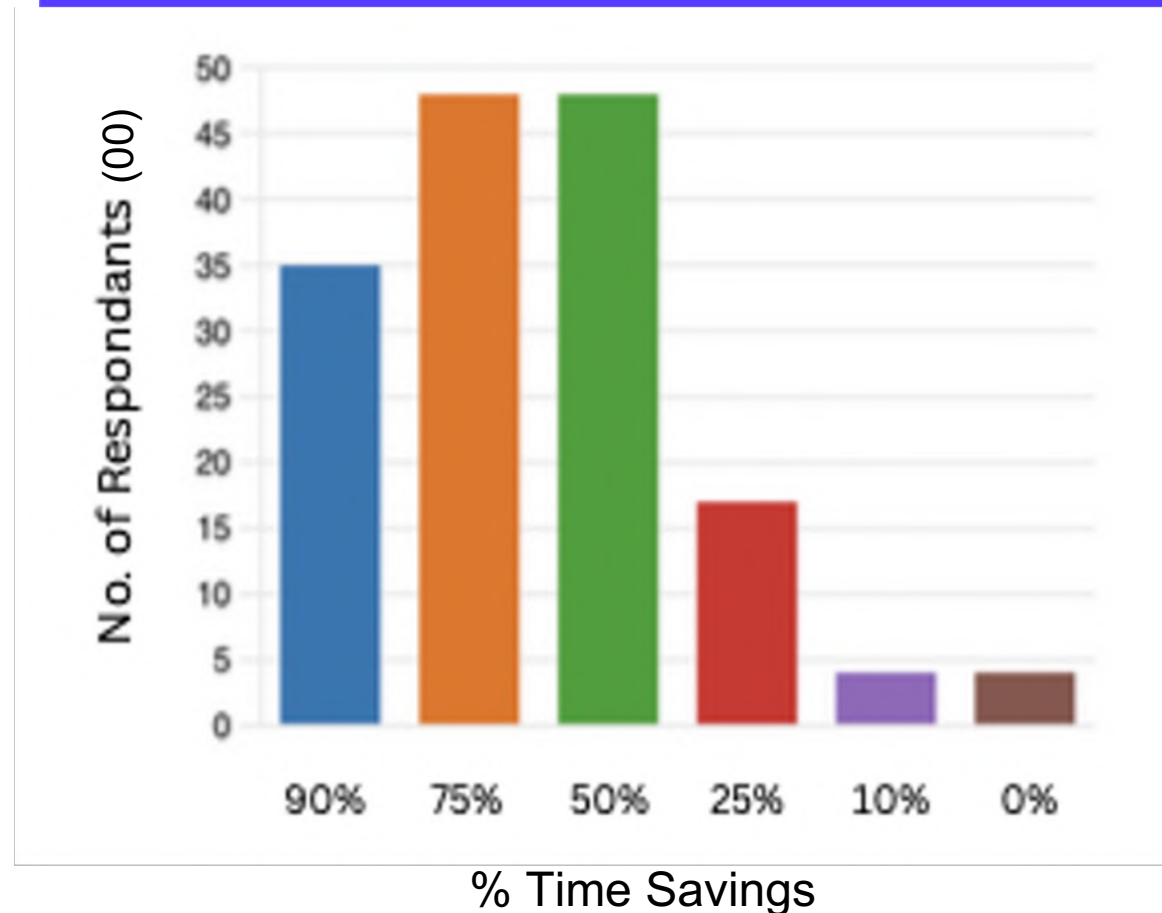
rayyan

Researchers from Major Global Research Organizations Prefer Rayyan

Trusted by 600,000+ Researchers

World Health Organization

"We exclusively rely on Rayyan for rapid reviews of the literature for its unmatched speed."

FUDAN UNIVERSITY 1905

"We fell in love with literature screening after only one day of using Rayyan."

McGill

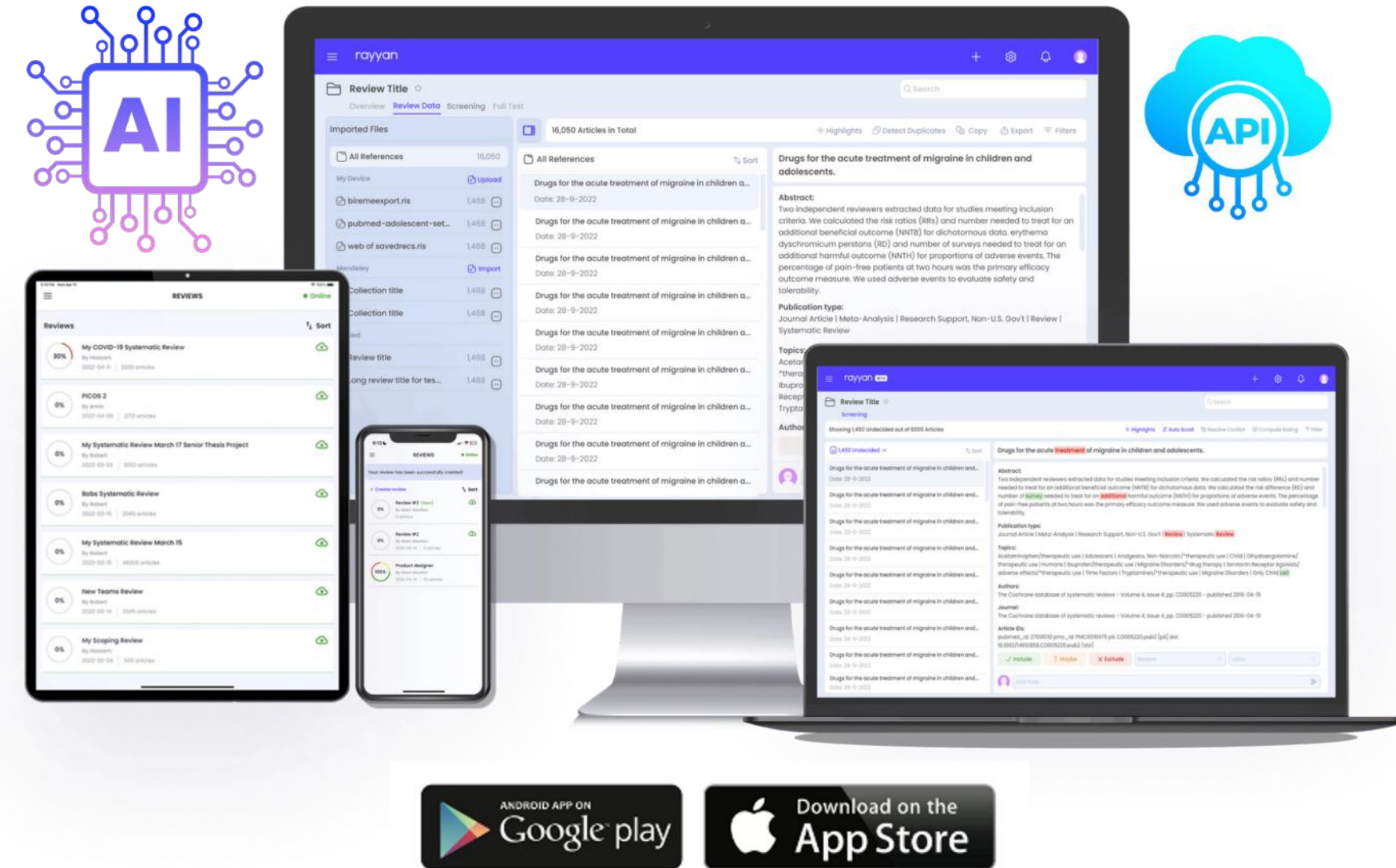*"We wouldn't be able to do this type of research between surgeries without Rayyan."*

Inserm — Institut national de la santé et de la recherche médicale

"We find the software brilliant...,we will definitely spread the word!"

"I am in disbelief!"

Tweet

Pravleen Bajwa @AnOdd... · 20/02/2021
Today I screened more than 4500 studies for my systematic review. I am in disbelief! This is way more than my cumulative total before today (2 weeks worth) #keywordsFTW! Honestly, not doing this on @rayyanapp would have been such a pain #academictwitter

1   1   7
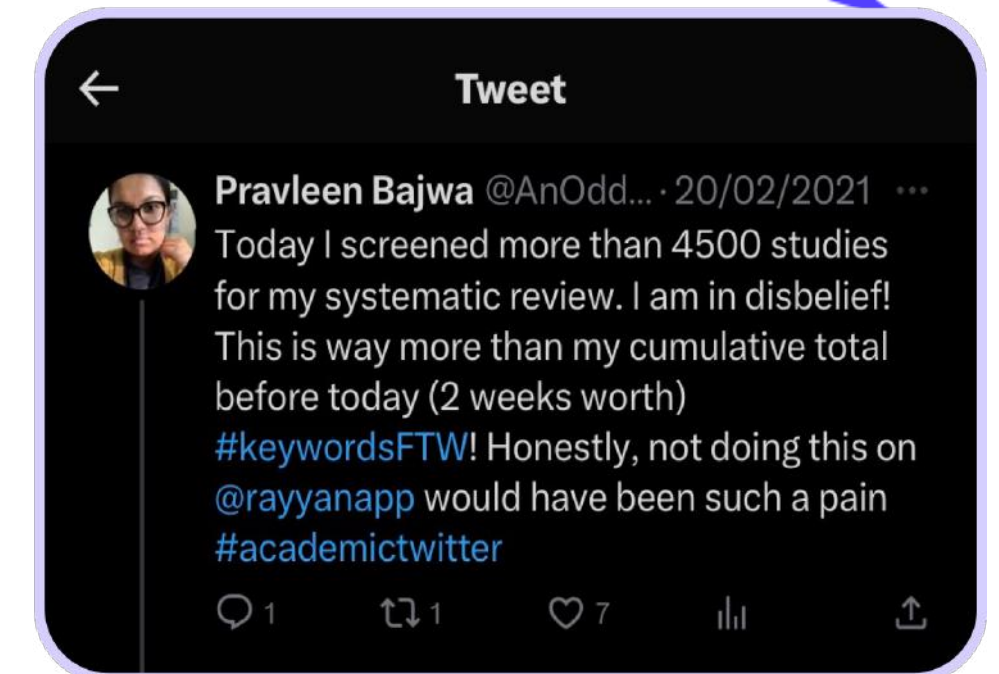
Rayyan has been cited over 16,000 times*.
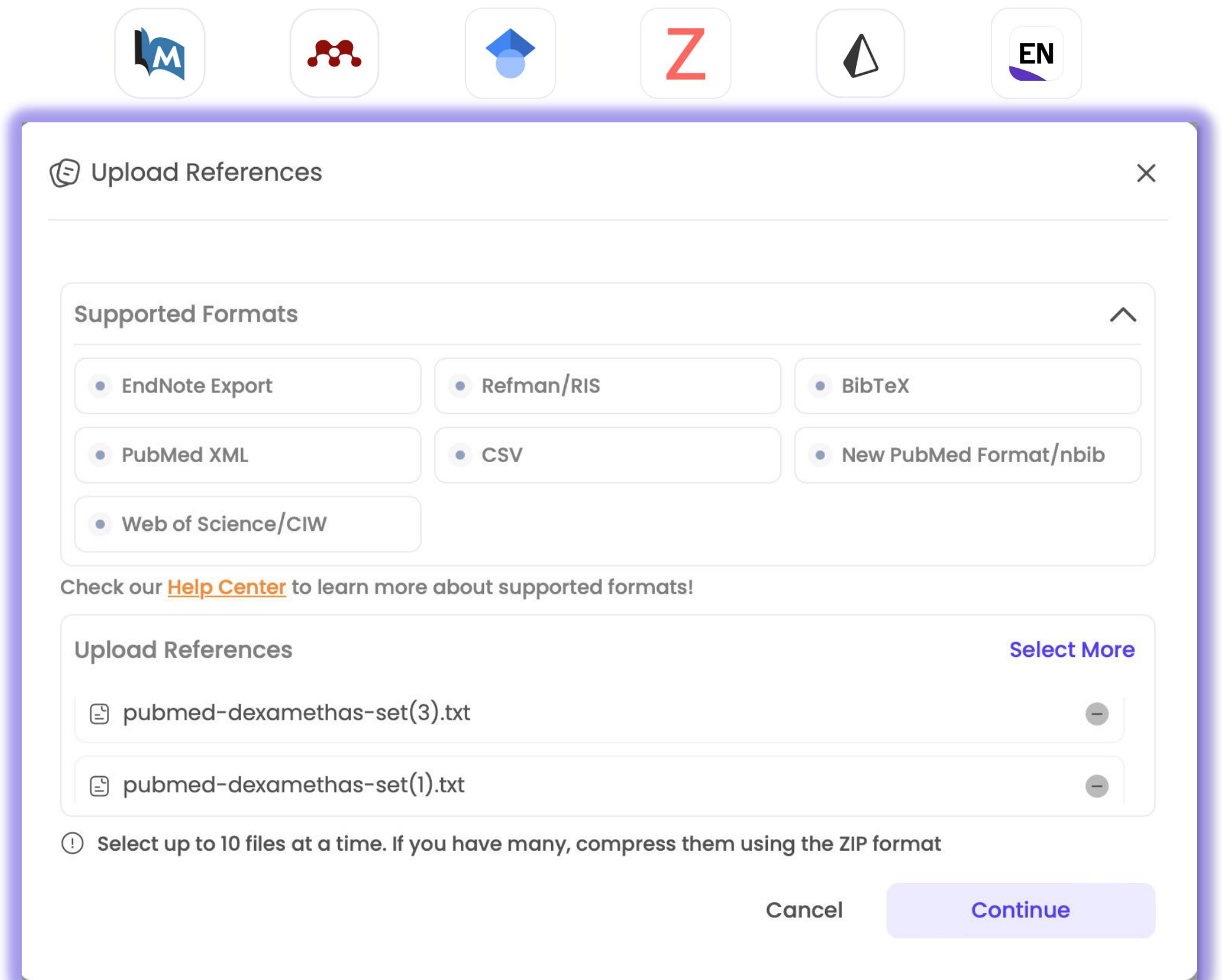
rayyan

Source: Google Scholar

Rayyan
Core Features

rayyan

Conveniently Import Any Combination of Multiple Large Reference Files

- **Import all industry standard formats** .enw, .ris, .bib, .csv, .xml, nbib, .ciw, .txt, .docx, .gz, .zip

- **Import 10 files at a time** up to 100MBs per file for up to 1GB per batch. **Imported files are processed in parallel**

- **Import more than 10 files compressed into a .zip or .gz file**

- **Make any number of imports** up to a million references per review

- **Web import directly from Mendeley**

- **Bulk upload full texts**

Upload References ✕

Supported Formats ⌃

- EndNote Export
- Refman/RIS
- BibTeX
- PubMed XML
- CSV
- New PubMed Format/nbib
- Web of Science/CIW

Check our **Help Center** to learn more about supported formats!

Upload References   Select More

- 📄 pubmed-dexamethas-set(3).txt ⊖
- 📄 pubmed-dexamethas-set(1).txt ⊖

ⓘ Select up to 10 files at a time. If you have many, compress them using the ZIP format

Cancel   Continue

rayyan

Create and Manage Reviews and Review Teams

- **Create Unlimited Reviews** (3 active)

- **Invite Unlimited** Review Members

- **Assign & Change Roles**

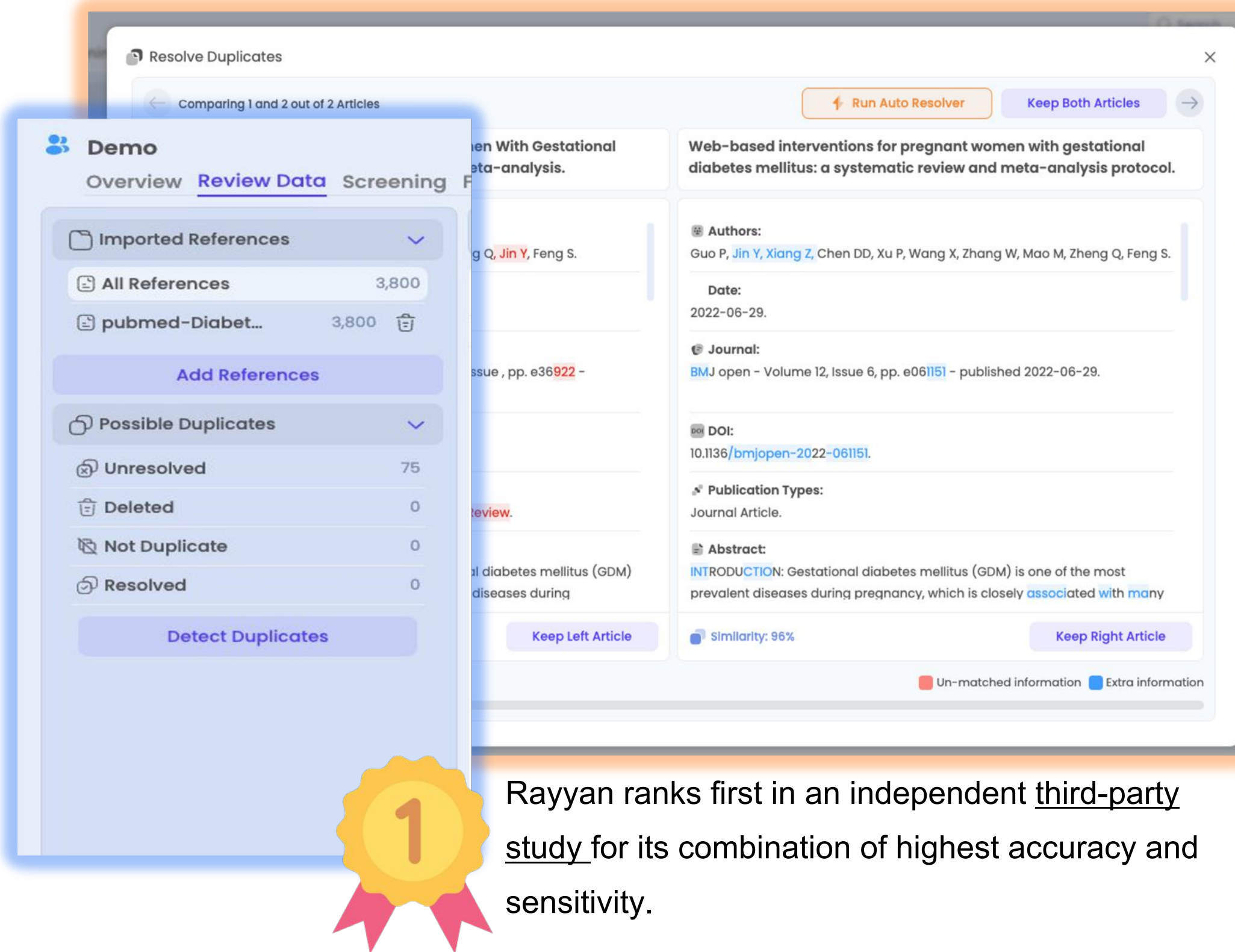- **Monitor** Review Progress

- **Chat** with Review Members
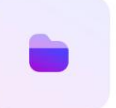
With Rayyan Enterprise:

- **Increase Active Review Limit**

- **Revoke & Delete** Members

- **Assign Additional Roles**

- **Organize & Share Review Ownership & Management** by Team or Enterprise

- **Provide Premium Access** to Members

Detect More Duplicates with Industry Leading AI Powered Duplicate Detection

Rayyan ranks first in an independent third-party study for its combination of highest accuracy and sensitivity.

- **Detect more duplicates** with Rayyan's industry-leading deduplication ranked highest for both accuracy and sensitivity

- **Designed for greater sensitivity**, **Rayyan significantly outperforms** EndNote (76%), Zotero (80%) and Mendeley (93%)*

- **Rayyan utilizes advanced AI** methods to determine and present overall similarity

- **Quickly view and resolve possible duplicates** with less than 100% similarity scores with side-by-side comparisons

Make Decisions, Add Labels, Assign Reasons, and Take Notes

- **Make and change inclusion decisions** (Include, Exclude or Maybe)

- **Use default hotkeys** to make decisions and navigate using only the keyboard

- **Create and Assign Reasons** for Exclusion

- **Create and Assign Labels** to code studies

- **Create multiple Notes** per reference

- **Toggle Blinding On/Off** to hide or share the above with others

With Rayyan Enterprise:

- **Program hotkeys for faster screening** including for Reasons and Labels, and acquire **Multi-select with Bulk Actions**

rayyan

The Workbench: Filter References, Highlight Text, & Preview Bibliometric Insights

- **Rayyan converts your references into an organized library** instantly upon import

- **The workbench includes over 20 purpose-built facets** with thousands of filtering options

- **Each filter is also an index** of matching references offering valuable bibliometric data and insights

- **Combine filters to narrow results** to find relevant research with each click

- **Highlight text based on keywords** for inclusion and keywords for exclusion

Over 20 AI Powered facets that provide the ability to filter by and highlight key information

**Each filter is also an index of all articles that share an attribute**


Image: PICO facets depicted here are available with Rayyan Enterprise
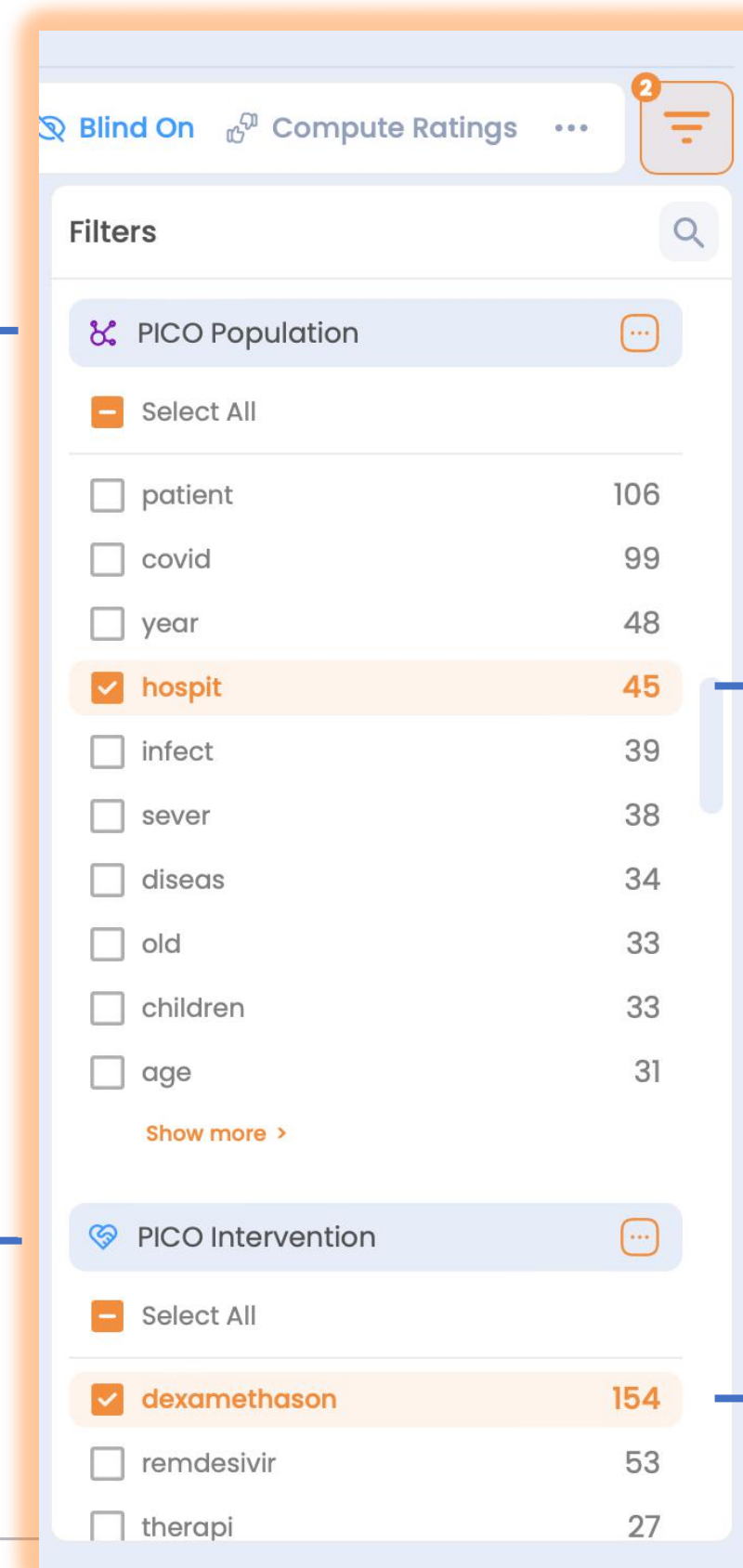
Complete Title, Abstract and Full Text Screening

- **Complete Title and Abstract Screening**

- **Bulk upload full texts**

- **Complete Full Text Screening**

- **Resolve conflicts**

- **Copy references to another review**

- **Export references to RefMan, BibTex, EndNote or CSV**

With Rayyan Enterprise:

- **Generate premium reports (**Audit Log, PRISMA, Kappa*, and others)

- **Auto-match Full Texts***

- **Auto-retrieve Full Texts***

*Kappa (in development), Auto-Match and Auto-Retrieve are upcoming priorities
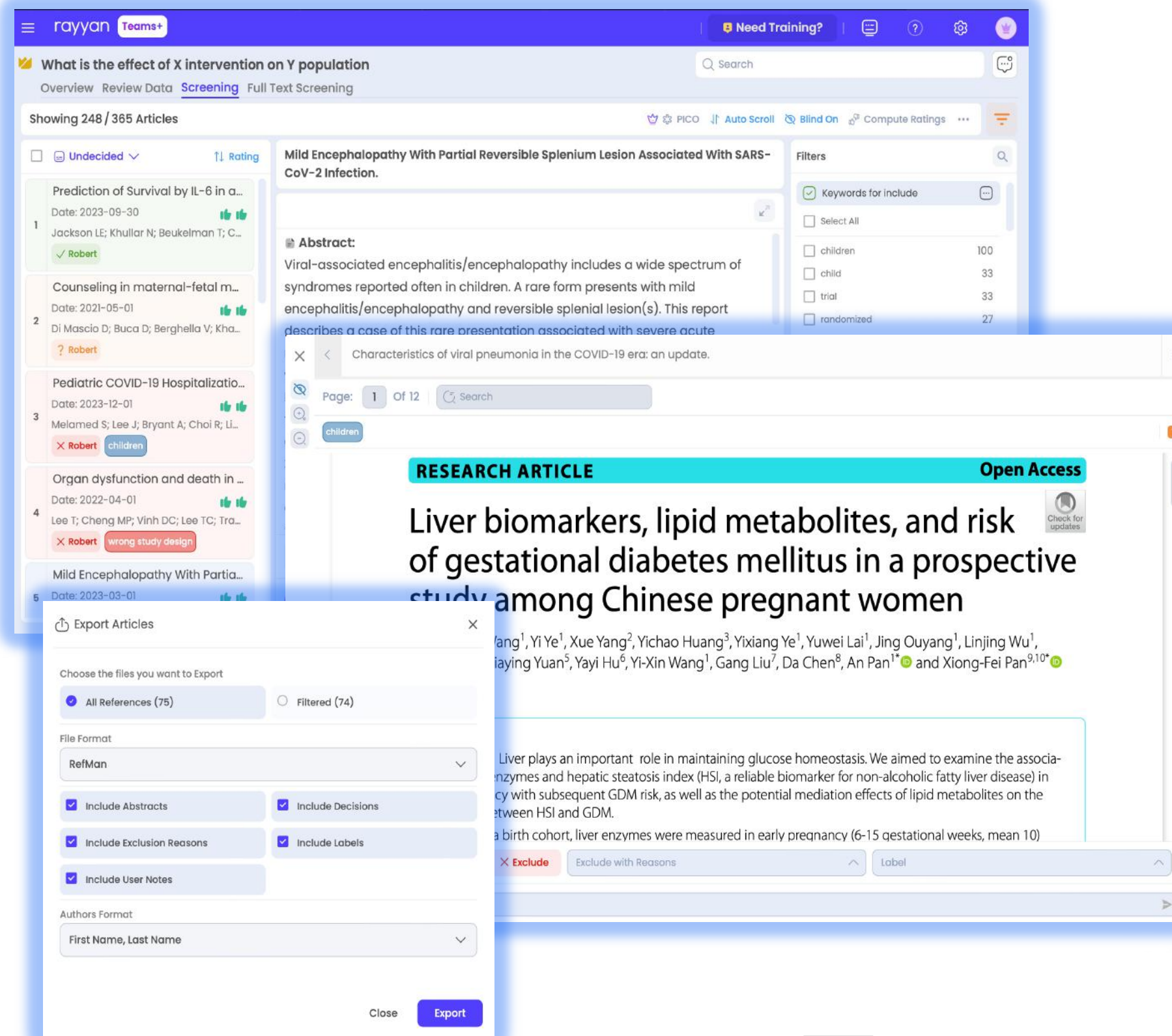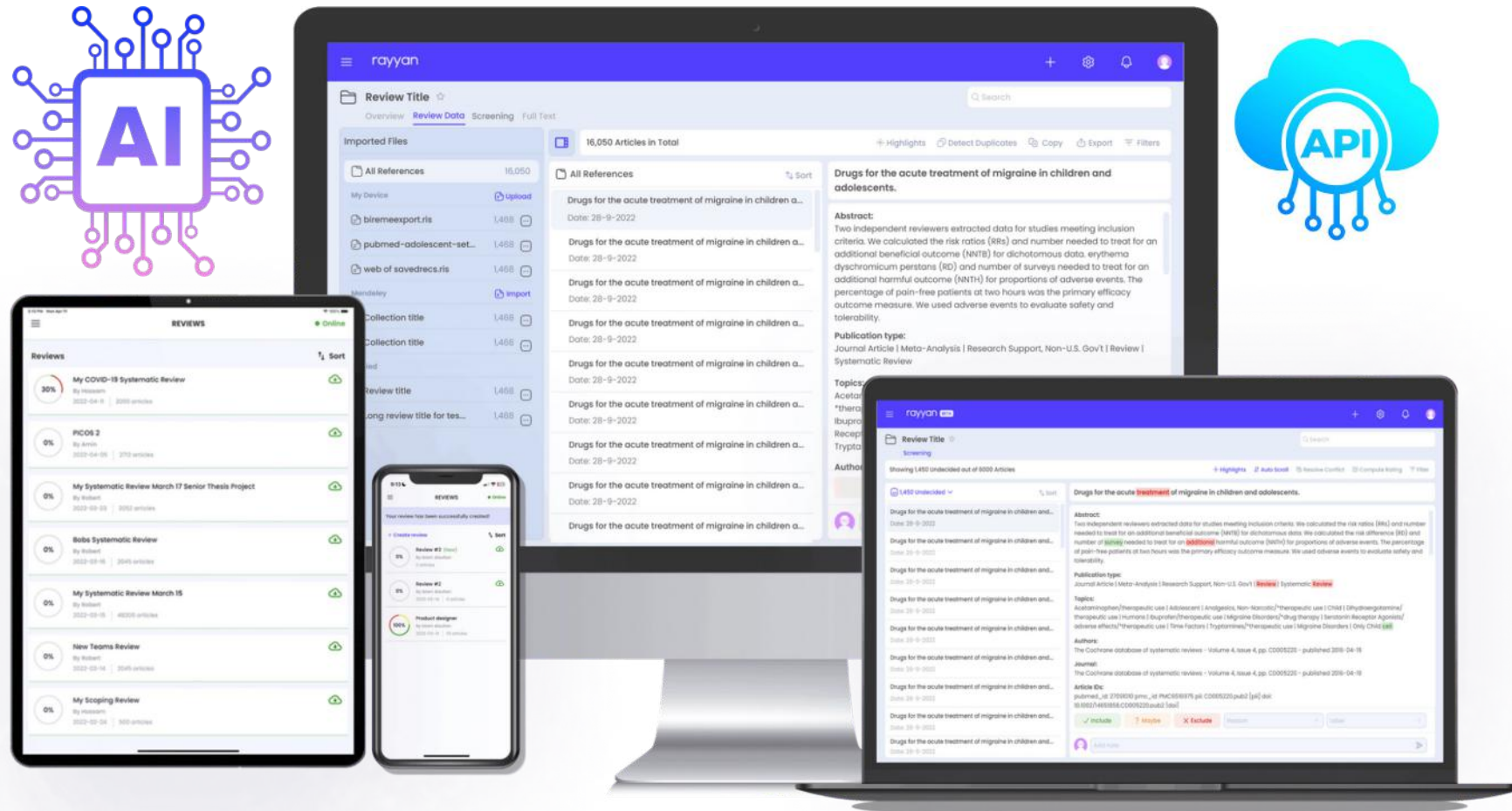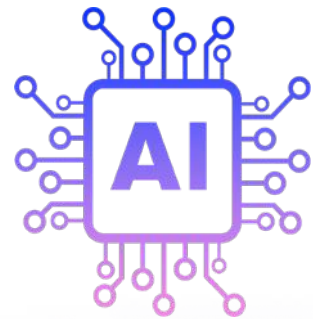
Rayyan Enterprise
Advanced Features

rayyan

Gain the Rayyan Enterprise Advantage for Your Research Organization

Provide Security & Convenience
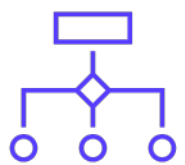Auto-provision users with single sign-on access control

Accelerate Research Enterprise-Wide
Provide time-saving tools to all researchers

Add More Productive Time to Each Day with Mobile
Work on-the-go and even offline from anywhere

Enterprise Level API Access
Provide complete access to the Rayyan API

Preserve and Promote Enterprise-Wide Research
Retain and report on enterprise-wide research output

Provide VIP Support to all Researchers
Keep researchers productive with VIP support & training

Rayyan Enterprise
Sign in to Rayyan using your Enterprise ID!

Email

Want to use your personal account?
Sign in with Rayyan ID

Sign In

Don't have an account? Sign up!

rayyan

Auto Resolve Possible Duplicates Using a User Defined Set of Rules

- **Protect existing references that have already been worked on** during deduplication of newly imported references

- **Normalize references** to resolve more possible duplicates by ignoring punctuation

- **Select your preferred searches (files) to default to** in the case of duplicates and to simplify full text retrieval

- **Use a systematic, reproducible rules-based approach to resolving duplicates** by combining deduplication criteria

Work Lightning Fast with Programmable Hotkeys and Auto Scroll

- **Program keyboard shortcuts** or use the defaults to work with the keyboard only

- **Assign Reasons and Labels with a single key** by selecting their hotkey

- **Automatically advance to the next reference** after each decision or assigned Reason with auto scroll turned on

- **Configure for one handed operation**

- **Personalize the experience** of each researcher
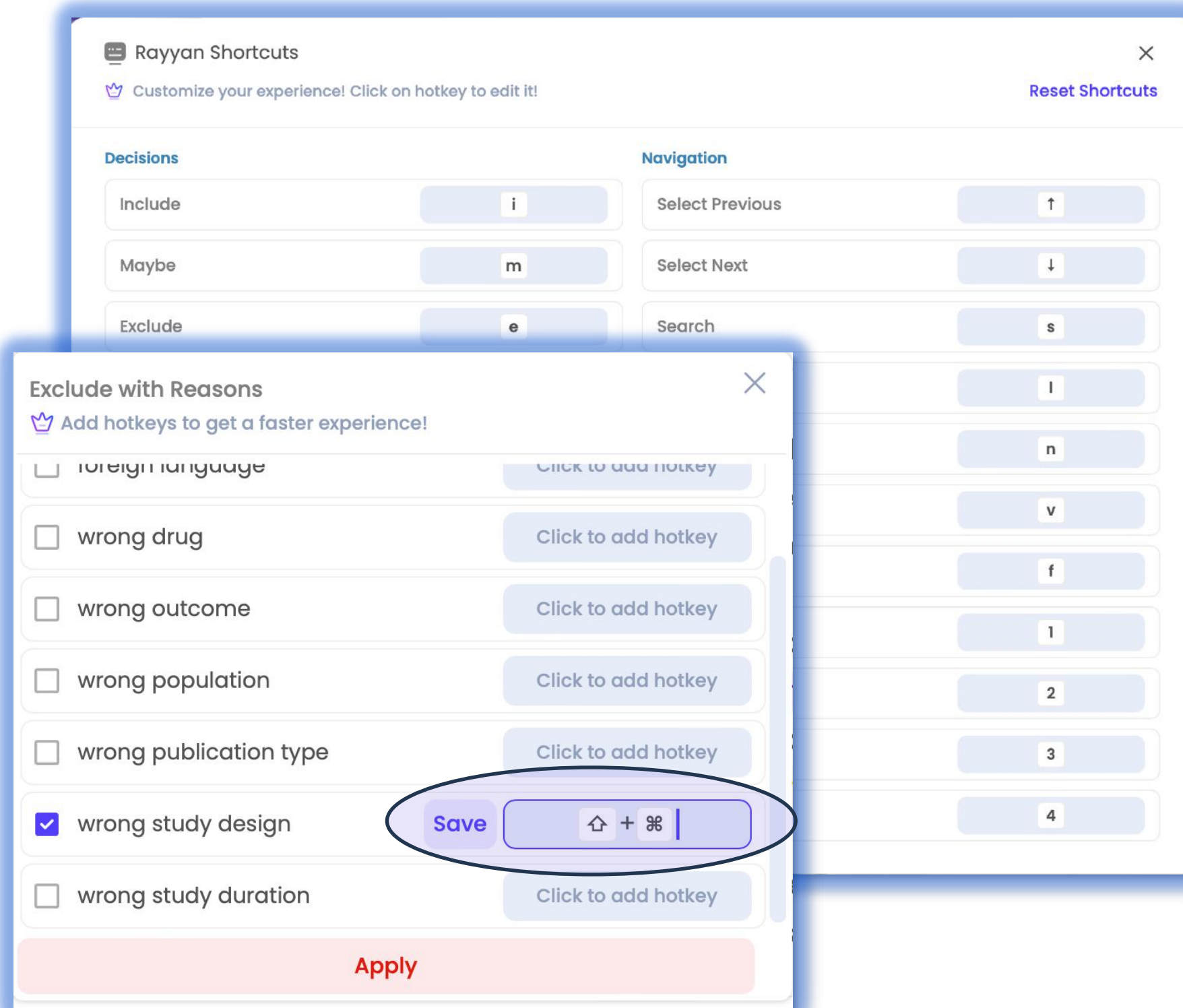
Work Even Faster than Lightning with Multi-Select & Bulk Actions

- **Combine Multi-Select and Bulk Actions** to assign decisions, reasons, and labels to multiple references even faster

- **Apply filters and use Select All** to select all the filtered results (not just the viewable results)

- **Bulk assign and change labels** with ease

- **Bulk Exclude (with a Reason)** by obvious disqualification criteria

- **Bulk Include** references based on PICO

- **Copy and Export multi-selected references** by selecting the Filtered option

rayyan
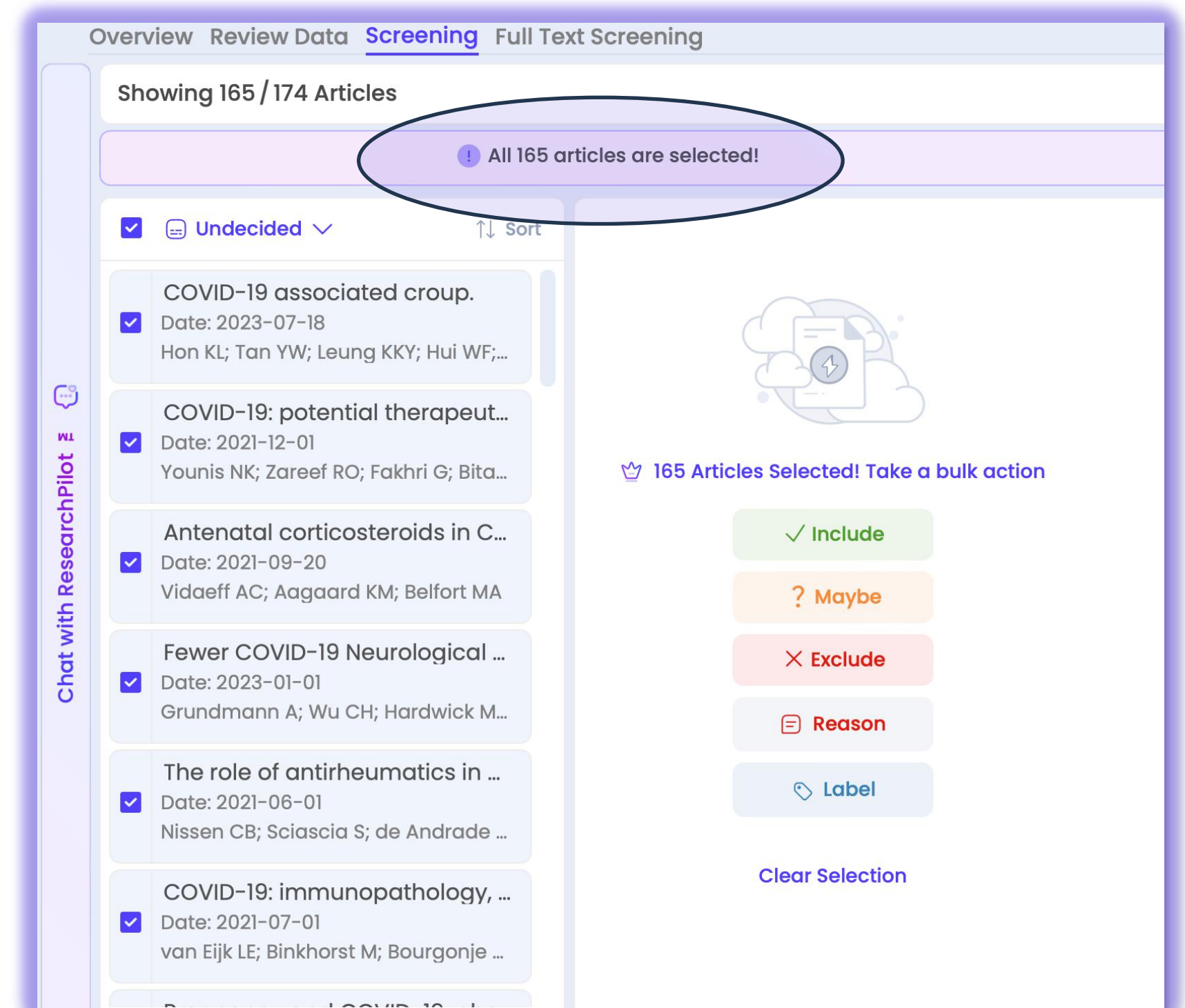
Create Samples to Check Interrater Reliability, Divide the Work, and Reduce Bias

- **Sample using randomization**, by title or system ID

- **Use a random sample to test interrater reliability** and reviewer understanding of criteria

- **Create sets of samples to divide the work** among multiple reviewers by # or % of references

- **Use random sampling with Compute Ratings** for superior model training of the prediction classifier

- **Create samples from all references or from filtered data**, including samples of samples

rayyan

Rayyan Learns from Your Decisions to Predict Inclusion or Exclusion

- **Run Compute Ratings to predict inclusion** or exclusion of all undecided references

- **Work in both directions**, from Most Likely to Include or from Most Likely to Exclude

- **Filter using the Ratings facet** to work on any references by their predicted inclusion

- **Run the model multiple times**, even after importing additional data, to get new or improved predictions

- **Combine with Bulk Actions** for rapid reviews

rayyan

Rayyan Understands Language in Context to Highlight and Filter by PICO

Filters

PICO Population

- Select All
  - [ ] patient
  - [ ] covid
  - [ ] year
  - [x] hospit
  - [ ] infect
  - [ ] sever
  - [ ] diseas
  - [ ] old
  - [ ] children
  - [ ] age

Show more >

PICO Intervention

- Select All
  - [x] dexamethason   154
 - [ ] remdesivir   53
  - [ ] therapi   27

Prospective, randomized controlled trial on Lactobacillus rhamnosus in infants with moderate to severe atopic dermatitis

any effect. OBJECTIVES: We conducted a prospective study to reassess the efficacy of orally administered L. rhamnosus strain GG (LGG) in infants with AD. METHODS: In a randomized, double-blind, placebo-controlled study, 54 infants aged 1-55 months with moderate to severe AD were randomized to daily 10 x 10(9) colony-forming units of LGG or to placebo during an 8-week intervention phase. Emollients, class I-II topical corticosteroids and antihistamines were permitted. RESULTS: The treatment with LGG was well tolerated. At the end of treatment there were no significant differences between the groups with respect to clinical symptoms (SCORAD, pruritus, sleep loss), the use of topical corticosteroids and antihistamines, immunological parameters, or health-related quality of life of the parents. CONCLUSIONS: Our results could not confirm LGG as an effective treatment of AD in infancy.

- **Purple** = population
- **Indigo** = intervention
- **Orange** = Outcome

- **Highlight PICO elements with >70% confidence** speed decision making; highlighting can be toggled on/off or by each element

- **Populate three facets containing filters/indices** for all the detected Population, Intervention/Comparison, & Outcome data using truncated terms

- **Preview insights from the instant analysis of the data** in the form of all detected Outcomes, Interventions and Populations

- **Filter by PICO elements** to find the most relevant references first

rayyan

PRISMA 2020 Compliant PRISMA Flow Diagram Generator with Control Panel
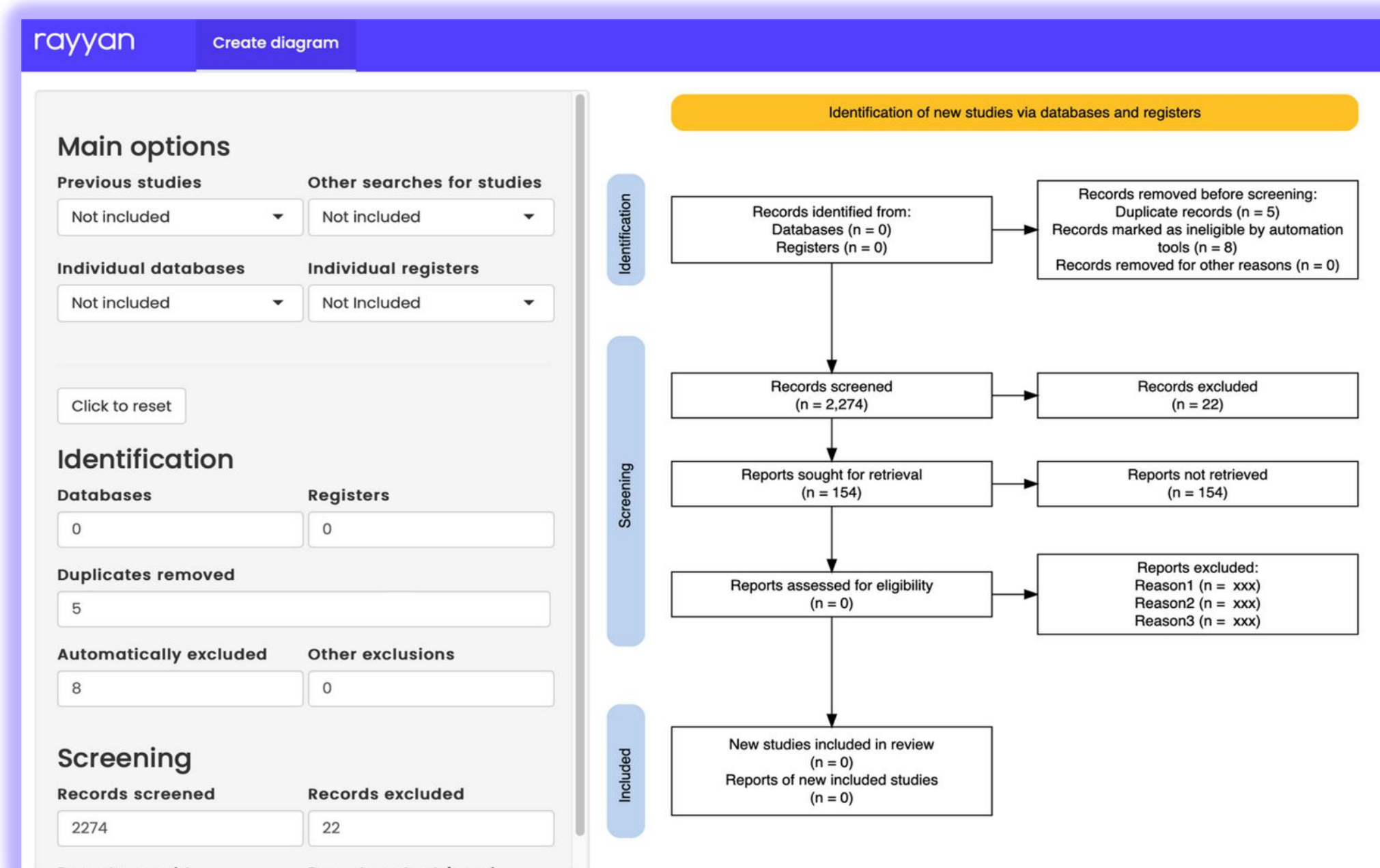
- **Generate a pre-set, ready to use PRISMA 2020 flow diagram**, saving you all the labor of creating one from scratch

- **Rayyan pre-populates the diagram** using the available review data

- **Use the Control Panel to complete and override any entries**

- **Save the completed diagram** as a graphic, PDF or as HTML that can be pasted into a word processor

rayyan

# Add More Productive Time Back Into Your Day with the Rayyan Mobile App

- Turn unproductive time into productive time
- Spend more time on task to finish sooner
- Work online for real-time collaboration
- Work offline to work anywhere, anytime
- Download and synch your references
- Enjoy the speed of a touch screen interface
- Swipe to make inclusion decisions quickly
- Touch to scroll through references fast
- Double tap to apply a custom action
- Auto-scroll after every decision
- Configure and save your preferred settings
- Prompt for a reason after excluding a reference
- Works on iOS, Android phones and tablets

The All New Rayyan Interface is Designed for Improved Accessibility

- **A successful VPAT has been conducted**

- **Light, Dark and Color-blind modes available**

- **Adjustable font size of abstract pane**

- **Mobile app with touch screen options**

- **Default keyboard shortcuts**

- **Programmable keyboard shortcuts**

- **Rayyan handles international character sets**

- **Work will continue to improve accessibility**
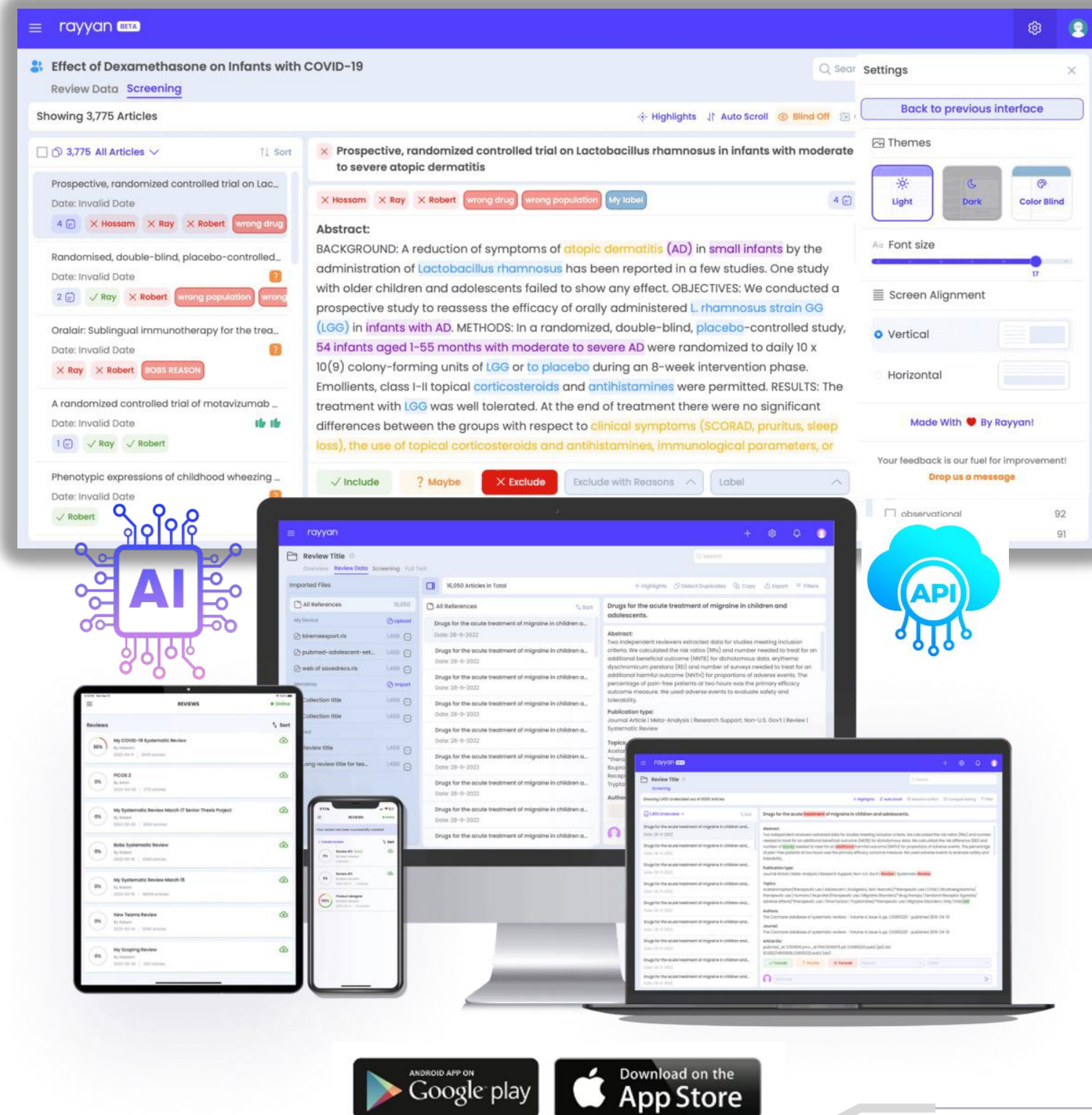
Private, Secure and Fully Managed by Rayyan

- **Enterprise Admin access for monitoring, reporting and more**

- **View users, reviews, searches, teams & full-texts**

- **Configure auto-approval settings**

- **Assign administrative roles and permissions**

- **View enterprise-wide research activity**

- **Transfer review ownership**

- **Create, Edit and Manage Teams**

Rayyan Enterprise Admin Console

Rayyan Fully Respects and Protects Your Rights Over Your Data

- **Privacy** is 100% in your control to grant and revoke access to collaborators

- **Data ownership** belongs to the users and/or their host institution

- **Collaborators** grant certain rights to the review owner to preserve the integrity of the review data

- **No sensitive data** is collected or transmitted in accordance with GDPR

- **Data processing** takes place in the US Northeast Region

- **No sharing** of user data takes place with the exception of sub-processors

- **Sub-processors** have contractual arrangements to comply with the same data privacy rules

- **Admin access** is restricted and there is no physical access to data centers

- **Data portability** allows for the full export of all user data at any time

- **Deactivation** allows users to deactivate their accounts or delete them entirely

- **GDPR compliant**

We are represented by DataRep in the EU

We are represented by DataRep in the UK

We are represented by DataRep in Switzerland

rayyan

Contact your sales representative to receive personal assistance.

Marc Keylard

Vice President

Global Partnerships

marc@rayyan.ai

Ray Peru

Sales Director

The Americas

ray@rayyan.ai

SUBSCRIBE @rayyanapp

FOLLOW US ON TWITTER / X:

HTTPS://TWITTER.COM/RAYYANAPP

FOLLOW US ON LINKEDIN:

HTTPS://WWW.LINKEDIN.COM/COMPANY/RAYYANAPP/

www.rayyan.ai

rayyan