# AutoLit

AutoLit is Nested Knowledge's platform for performing a review. On AutoLit, you can **Search** for studies, **Screen** out studies that are not relevant to your research, **Tag** relevant studies, and **Extract** quantitative data, as well as write your **Manuscript**. For more information and a brief overview of the AutoLit tool, explore the pages below!

If you complete a review on AutoLit, you will automatically generate the interactive, data-driven visuals presented in **Synthesis**.

# **Get Started**

- See our **Get Started** page to find a walk-through of the tasks to start a 'nest' (an interactive, updatable review in AutoLit).
- Want to try out the software in an already-existing project? See our **Demos**, which you can edit and practice in!

# The AutoLit Workflow

By creating a review in AutoLit, you automatically create interactive, visual outputs on Synthesis. To see the connections between the AutoLit tasks and Synthesis outputs, see the figure below:

### AutoLit (workflow)

#### **Literature Search**

Craft and execute a search strategy. This search is usually based upon the population, interventions, comparators, and outcomes of interest.

#### Screening

Decide whether to include or exclude the studies returned by your search strategy.

#### Tagging

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Capture qualitative data from each included study in order to organize both studies and underlying data in a customizable ontology.

#### **Data Extraction**

Turn tags into data elements to capture quantitative data from each included study. This allows for further statistical analysis, including network meta-analysis.

#### **Risk of Bias**

Assess the risk of bias in each study to ensure gathered data is of the highest possible quality.

#### Project Management

Draft a protocol, communicate via comments, see an overview dual gathered data and gain control of your review process with administrator configurable settings and dashboard.

### Synthesis (Deliverables)

#### **Qualitative Synthesis**

Gathering qualitative data automatically generates pointand-click visuals, enabling quick insights.

#### **Quantitative Synthesis**

Gathering quantitative data automatically generates pointand-click visuals, enabling quick insights.

#### **Risk of Bias Visuals**

Conducting risk of bias automatically generates traffic light diagram.

#### **PRISMA Flow Diagram**

Using Nested Knowledge automatically generates a PRISMA flow diagram, keeping your review compliant with the PRISMA standard.

#### Manuscript

Incorporate all automatically updating tables, visuals and citations into your written manuscript.

## Features

- **Search:** Build a structured search using Search Exploration, run automatic and updatable searches on PubMed, and import records from other search indices or external sources.
- Screen: Configure your study's Exclusion Reasons, and then include relevant studies and exclude irrelevant studies, using either single or Dual Screening.
- **Tag:** Build Hierarchies of concepts of interest from underlying studies, or save work by importing your Organization's Template Hierarchies! Your tagging will automatically create a **Qualitative Synthesis** diagram of your work.
- Extract: Gather quantitative data from underlying studies (and, as necessary, perform Risk of Bias assessments) that automatically populates your Quantitative Synthesis.

• Write: Draft written outputs using our Manuscript Editor, including automatically-generated PRISMA charts and automatically-updated, customized data tables!

# **Other Resources**

Systematic reviews are complicated! Here are some further resources to help with your study design and nest building:

- **Synthesis:** The process outlined above creates interactive data-visualizations in our Synthesis software.
- **Organizations** give you capabilities like inviting all collaborators at once, overseeing projects, and providing and using Organizational Templates.
- **Study Inspector** is your one-stop page in a nest to view, filter, and edit any study's content.
- **Best Practices for Review:** If you need guidance on how to design, perform, or draft a systematic review, see our guidance documents!
- **Support:** Please contact us if you need help with a technical issue, or have a suggestion for an improvement to our workflow our outputs!

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