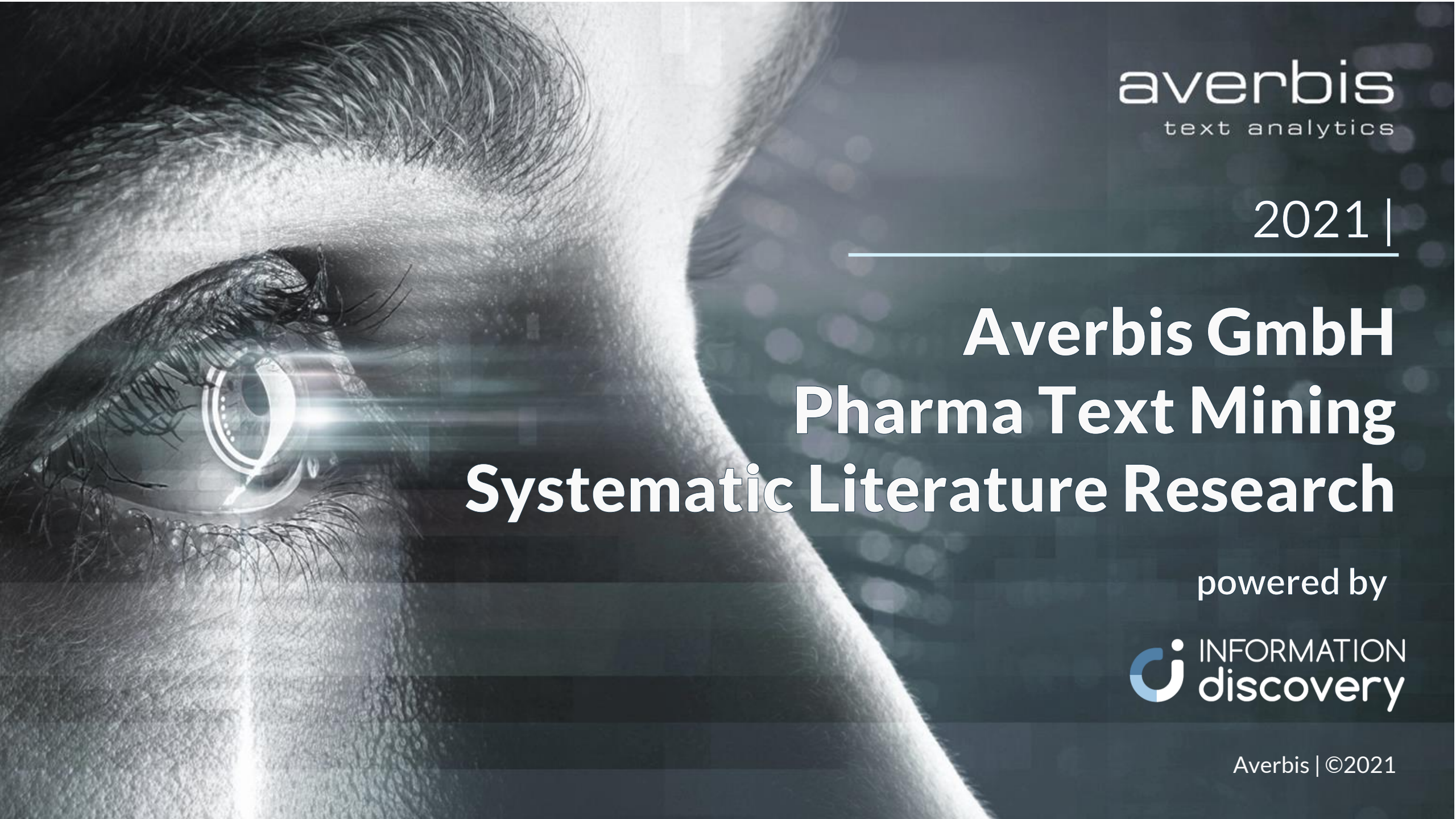


averbis
text analytics

2021 |

Averbis GmbH
Pharma Text Mining
Systematic Literature Research

powered by

INFORMATION discovery

Averbis | ©2021

Averbis in a nutshell

Averbis is a text analytics company specialized in Machine Learning and Natural Language Processing (NLP)

Our solution

INFORMATION discovery

AI assisted Machine Learning/Text Mining Platform for Pharma

AVERBIS IS AWARDED AS AI CHAMPION
KI-Champions Baden-Württemberg
FROM BADEN-WÜRTTEMBERG TO THE WORLD

Hospitals

- Universitätsmedizin Mainz
- FAU Friedrich-Alexander Universität Erlangen-Nürnberg
- Rhön-Klinikum AG
- Universitäts Klinikum Freiburg
- Medizinische Universität Graz
- St George's Healthcare NHS Trust

Healthcare Partners

- TriNetX
- Cerner
- IQVIA
- Rhenus Logistics
- SAP

Pharma

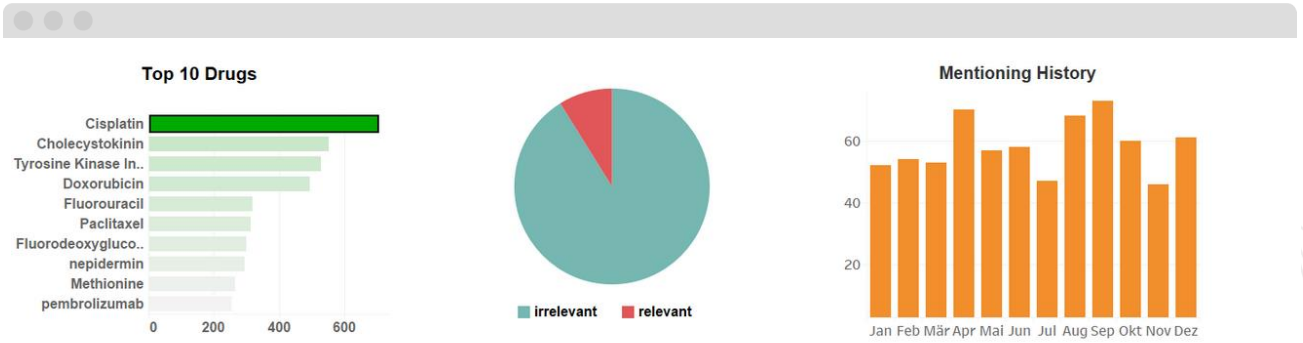
- Merck
- Bayer
- Janssen
- Roche
- BASF We create chemistry
- syngenta
- Fresenius Kabi
- Genentech
- Takeda
- genzyme

Awards

- Innovativ durch Forschung
- kununu Top Company – von Mitarbeitern empfohlen

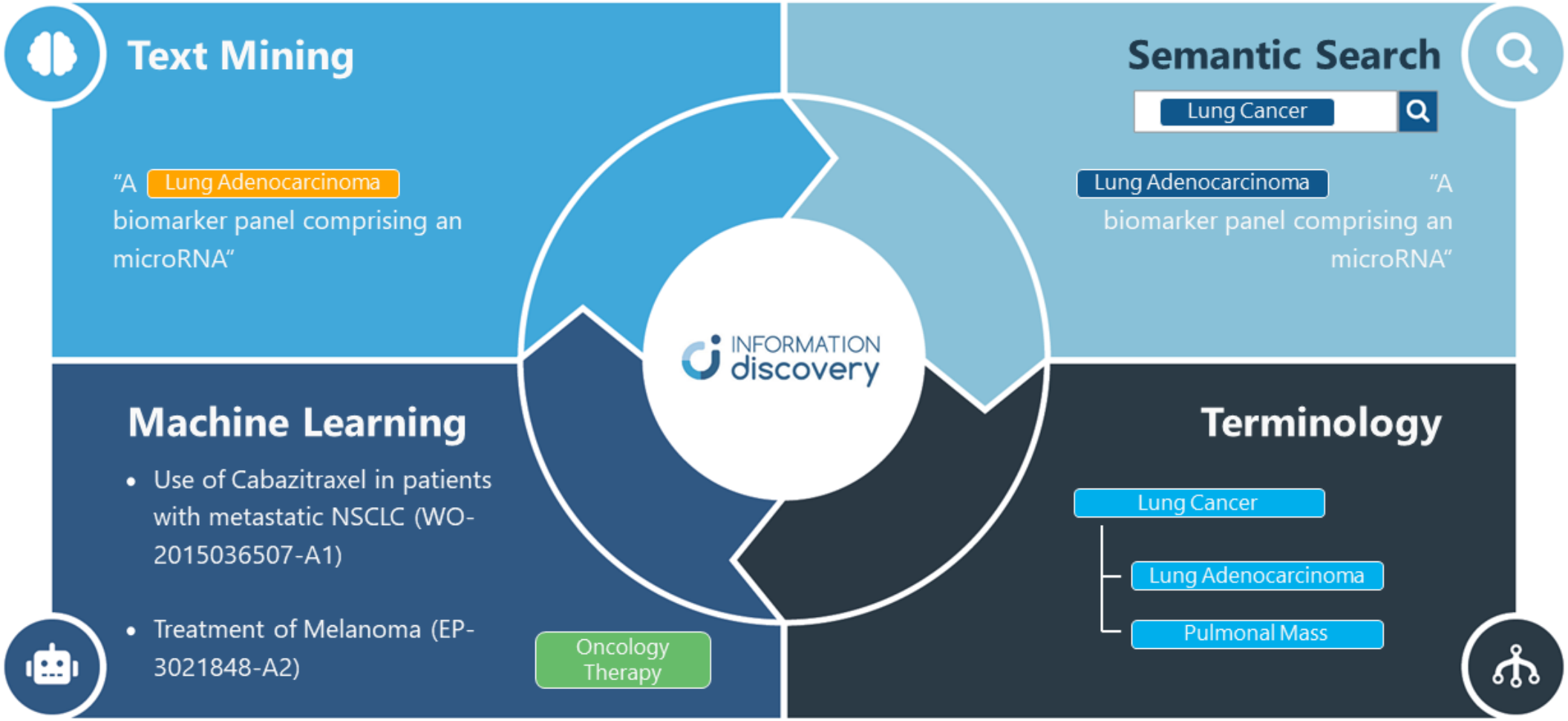
Free up your experts! Get new insights!

- State of the art AI - multilingual text mining with machine learning
- 30 most common industry standards (MedDRA, MeSH, LOINC,…)
- Adaptable to your needs
- Integration into your processes and on premise or cloud infrastructure



Information Discovery: Detect and highlight adverse events

Information Discovery features



Averbis Pharma Use Cases

Commercial Operations / R&D

What are our Medical Liaison Managers actually talking about with KOLs? What can be found on the Web?

Medical Liason Management
Web Monitoring

Pharmacovigilance

How do I find Adverse Events to my products out of 150 000 Pubmed articles and which ones do I have to process with Prio1?

Adverse Event Detection

Product Development

Which articles are actually relevant to our phase 3 study?

Systematic Literature Research

We'd love to talk to you about these productive use cases!

Or about exciting new use cases!

R & D

Who actually has the most patents / studies in the field of oncology in children?

Competitor / Patent Monitoring

Regulatory

How do we get the CoMorbidity information from our SMPC documents for submission to the EMA?

IDMP

Commercial Operations / R&D

Can we identify people from 100 000 doctors' letters who may have a rare disease?

Rare Disease Detection

Literature Classification

Literature Research in Life Sciences

Save up to 80% of your effort and get better results

Today

Using (complex) keyword queries on literature databases

- leads to many irrelevant results (~85%)
- is still not complete

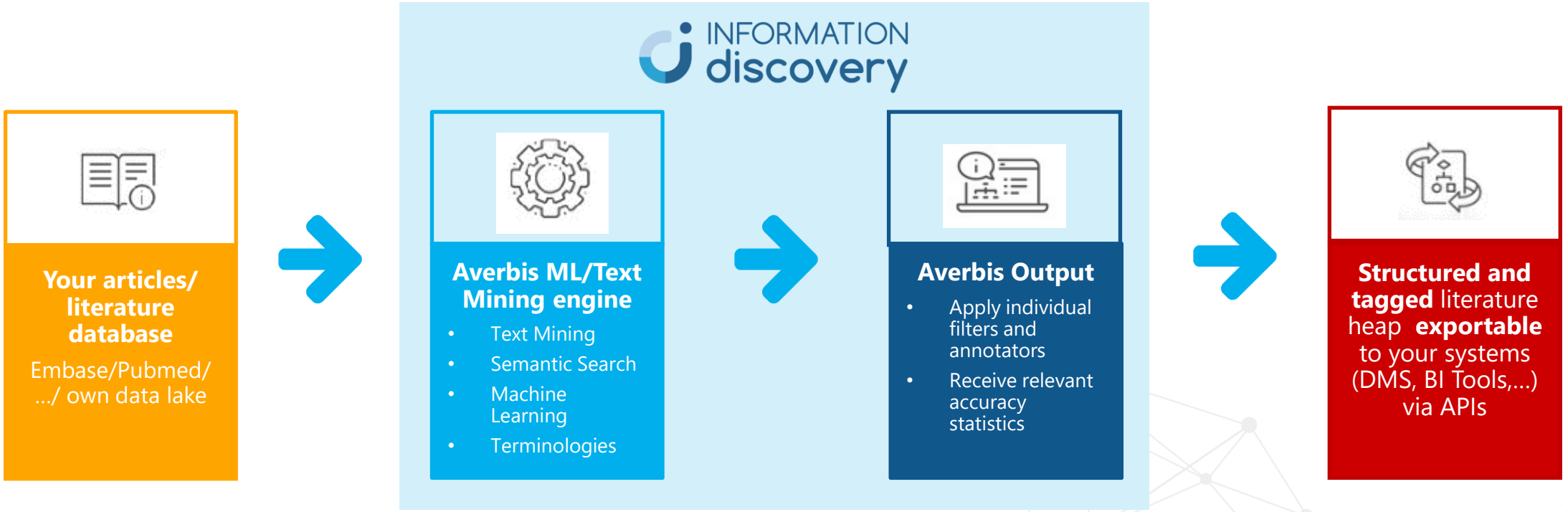
- Stop wasting time on an endless amount of manual work!
- Improve accuracy!
- Make data-driven decisions!
- Focus on the interesting work only!

Tomorrow

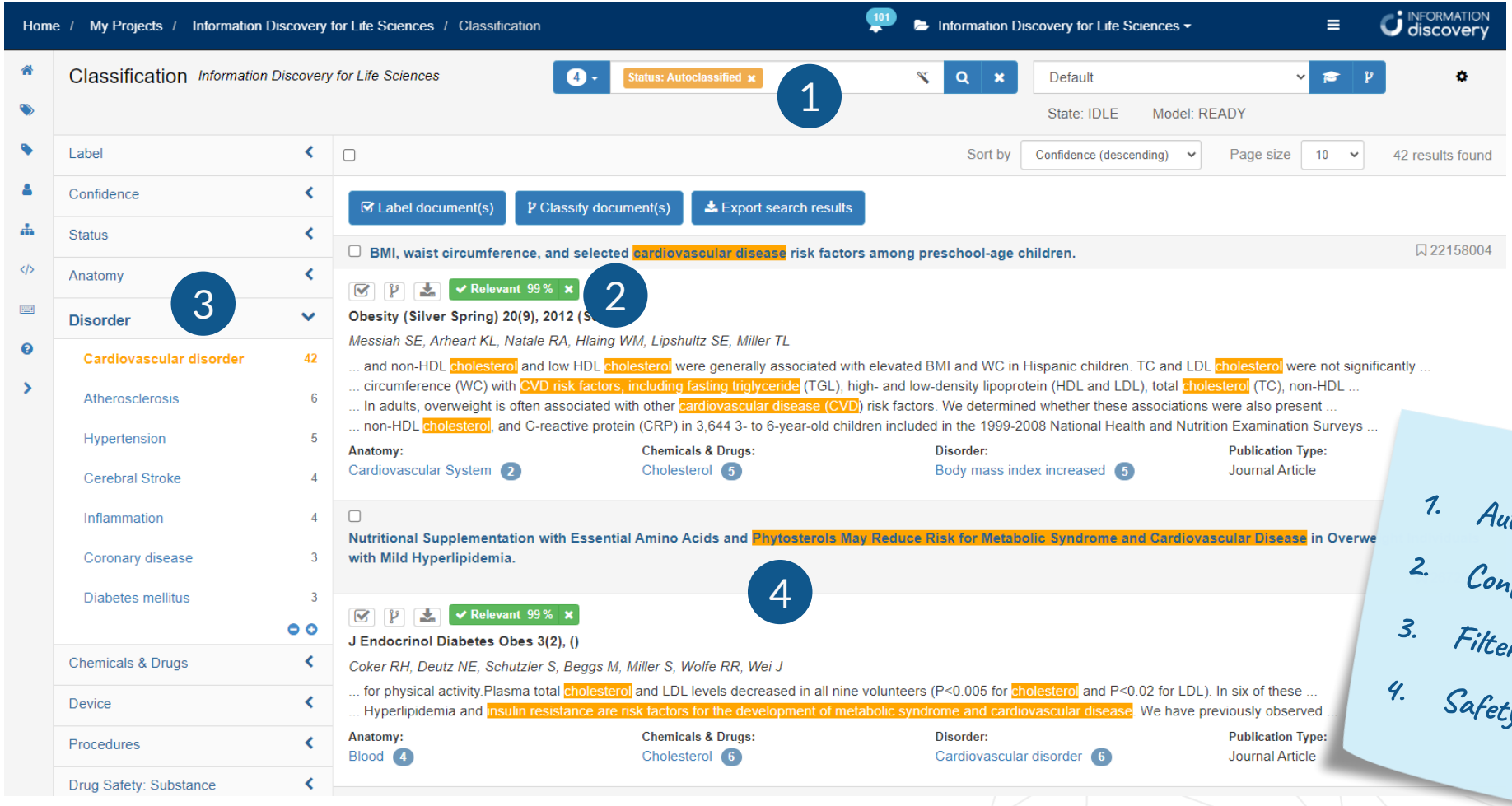
Make your literature research more efficient with AI

Literature Classification in Life Sciences

What does Averbis Information Discovery do?



Classification Results

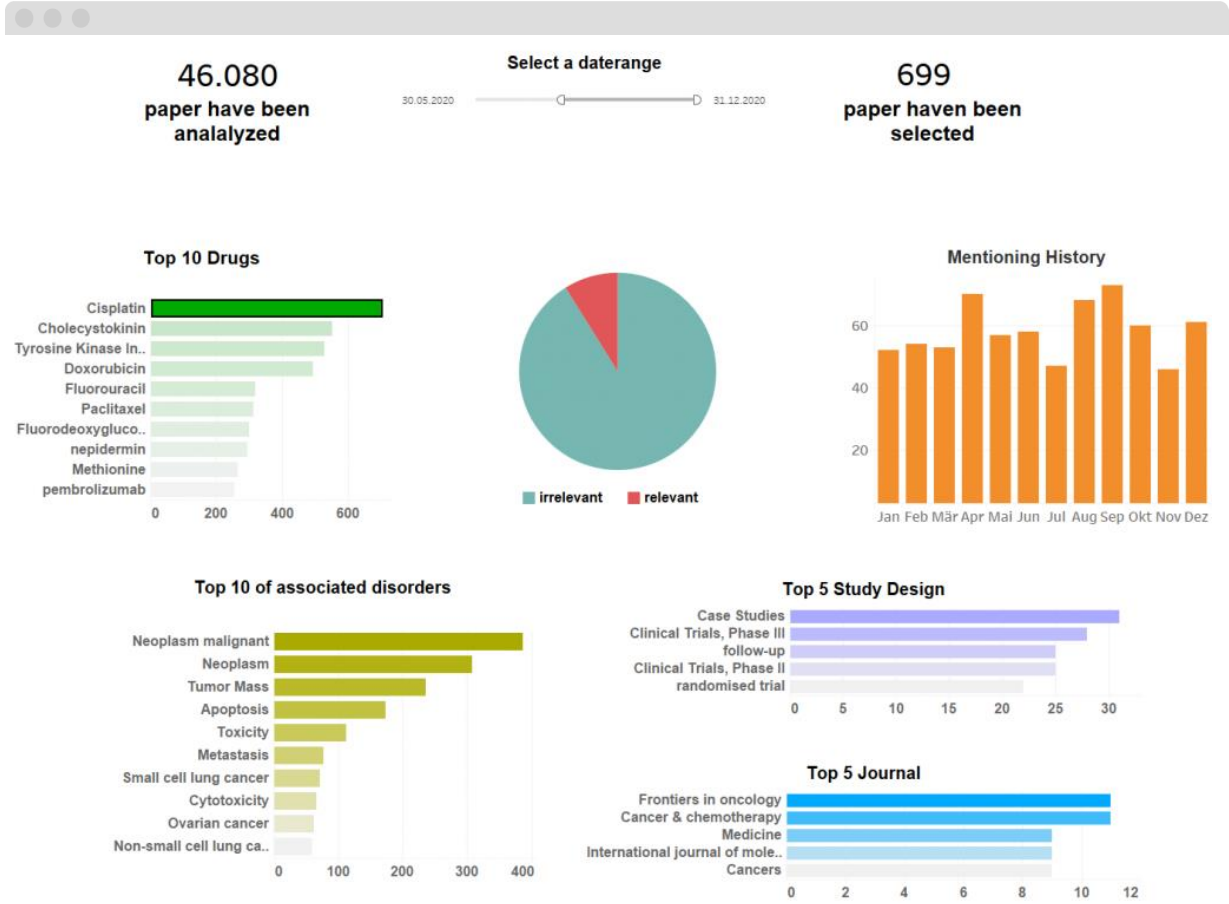


Filtering and indexing: Publications and articles get sorted into topics and relevant text is highlighted automatically (Screenshot taken from the Information Discovery dashboard)

Add Business Intelligence

With the added capabilities of data visualization through PowerBI or **Tableau**, you can save time while getting meaningful insights.

You can select which key metrics you want to see and get more detailed views through drill-down menus. Additionally, you can select filters, such as the time period of publications to be included in your analysis, by using the slider in the middle.



Dashboard: The interactive dashboard allows you to get a quick and complete overview of key metrics.

Systematic Literature Research

Systematic Literature Review with AI

Reduce your workload and shrink the approval timeline

Save up to 75% of time and costs!

In an industry where time to market is crucial and quality is key you want a solution that offers both. Currently SLRs are performed manually in a time and resource consuming process.

With our text mining and machine learning approach you can save time and effort with transparent and reproducible results.

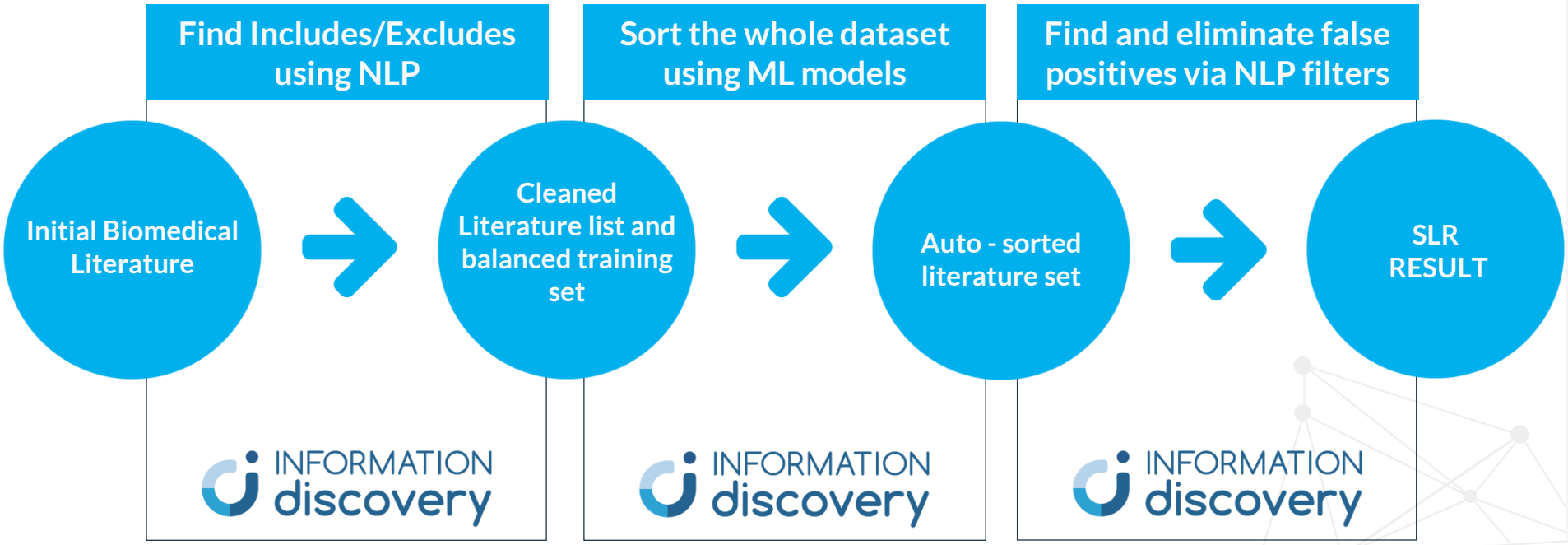
An example of this can be seen in the shown results of our SLR project.

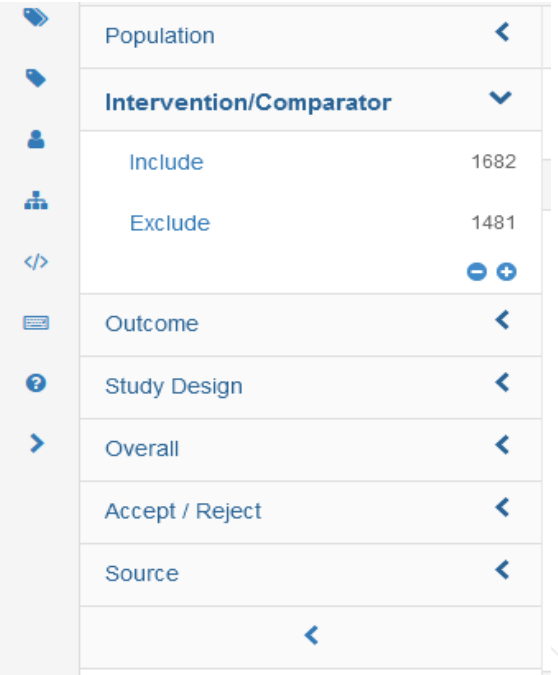
Results of the SLR project: ISPOR 2020
”A Systematic Review of Non-Small Cell Lung Cancer Clinical Trial Literature” – Luisa Queiros, Andreas Witzmann, Mateusz Bednarski, Marc Sumner, David Baehrens, Seye Abogunrin -

https://europe2020-ispor.ipostersessions.com/Default.aspx?s=DC-D6-E5-F5-DA-F2-D0-1C-56-42-62-C6-63-9D-48-3B

Systematic Literature Review with AI

A combined approach of Natural Language Processing (NLP) and Machine Learning (ML)





Automatic generation of rules for PICOS

Population

Adults (≥18 years) with advanced/metastatic NSCLC.
EGFR mutation +ve NSCLC (....

Receiving second- or later lines of treatments

Intervention / Comparators

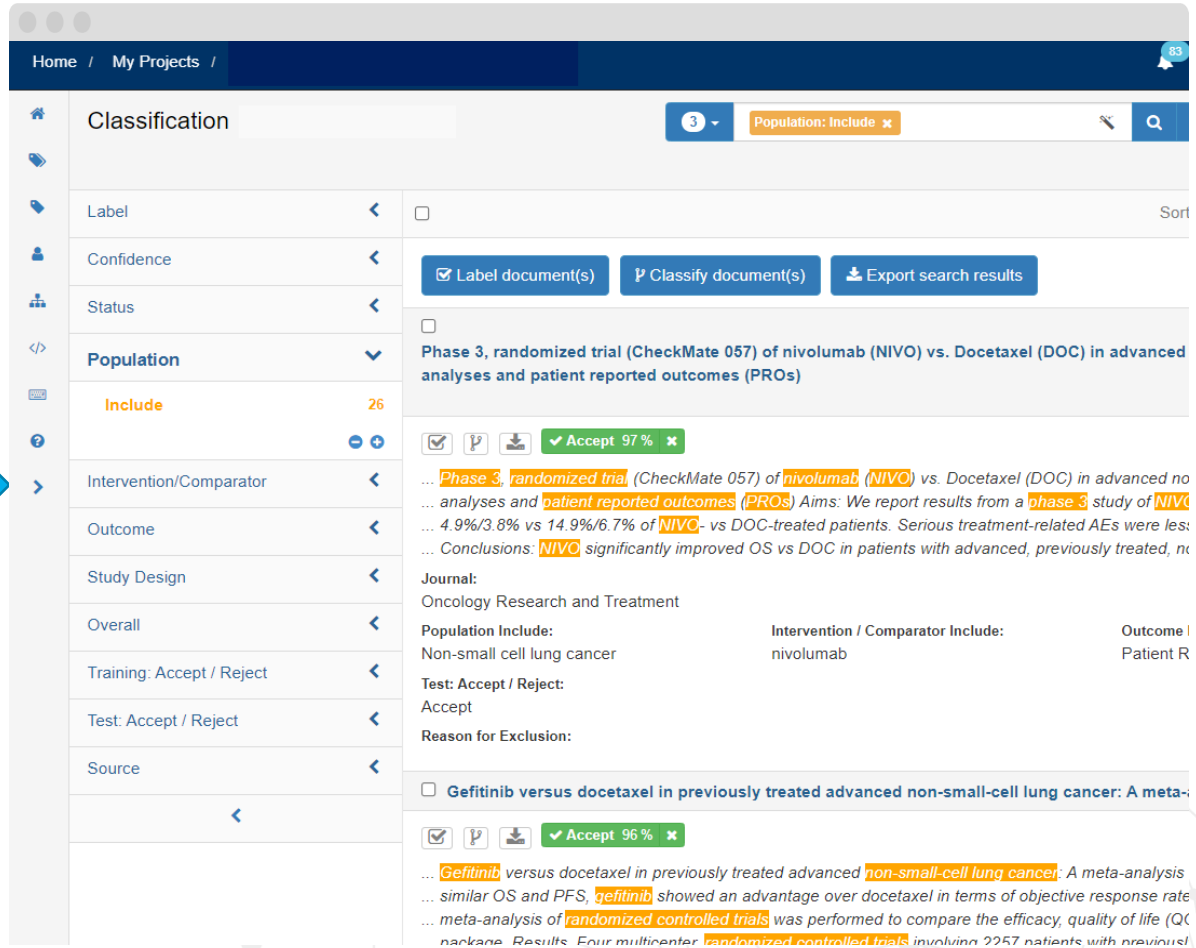
Best supportive care (BSC), Placebo

Outcome

...

Study Design

...



Illustrative Design – rules are translated manually today

The future of Systematic Literature Research

INFORMATION discovery

Text Mining / Machine Learning Platform

helps you to

- Automate the generation of rules for PICOS
- Significantly reduce the time of your SLR
- Get more accurate results using NLP and ML assisted classification

Let‘s talk about your needs!

Interested? Get in Touch

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