FACHINFORMATIONSDIENST PHARMAZIE
TU Braunschweig

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PubPharm - the search engine for pharmacology, toxicology & pharmacy-specific literature

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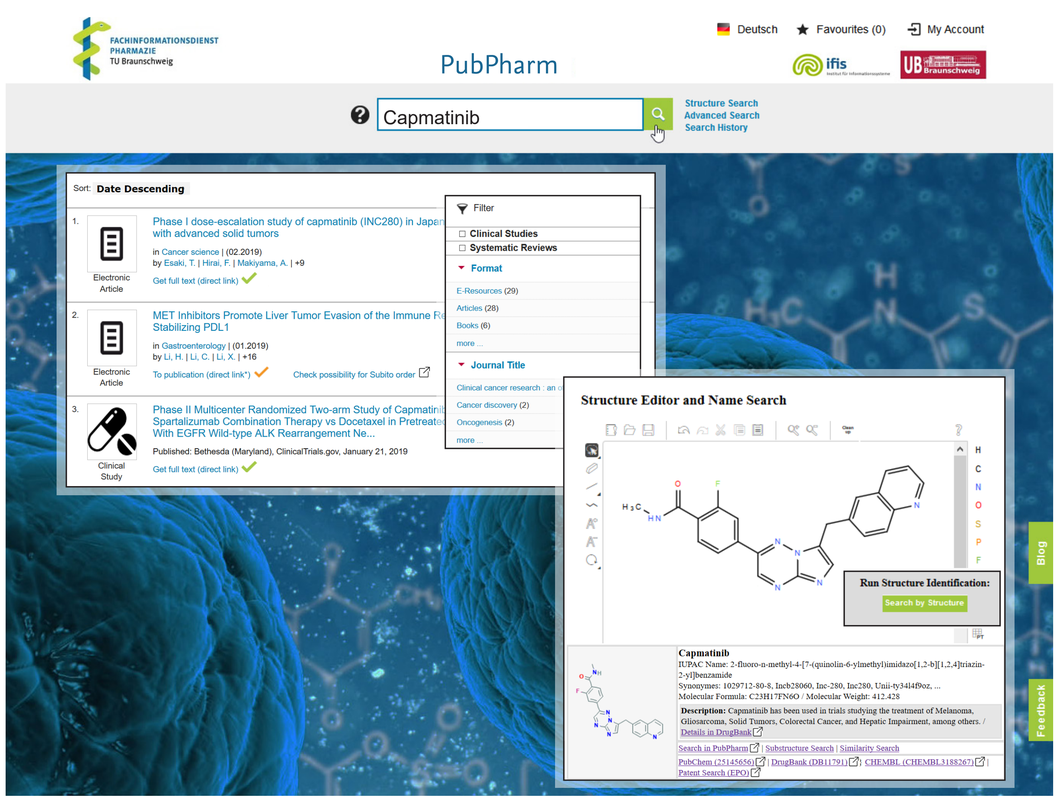
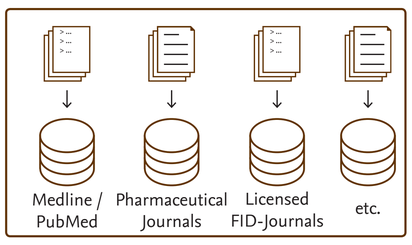
PubPharm Search Platform



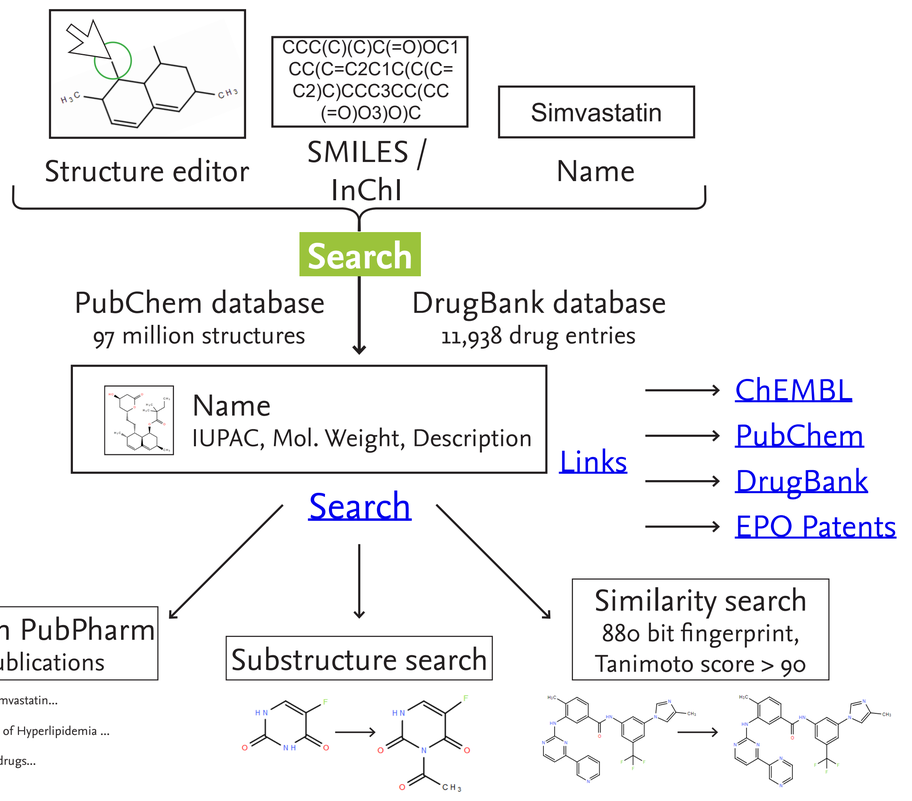
PubPharm is a free pharmacy-specific search platform.

- PubPharm contains more than 50 million references
  - Including 28 million Medline (PubMed) publications

- Content beyond Medline
  - Journal articles from adjacent scientific disciplines (e.g. chemistry)
  - Pharmaceutical books (e-books, dissertations)
  - Conference papers
  - Information on clinical trials



Structure Search



Journal Access

- Full text access to more than 50 journals (licensed by Fachinformationsdienst Pharmazie)
  - 47 Campus licences for universities with pharmaceutical institutes
  - Supported by DFG-funding

- For all references in PubPharm: Availability check (personalised based on location)

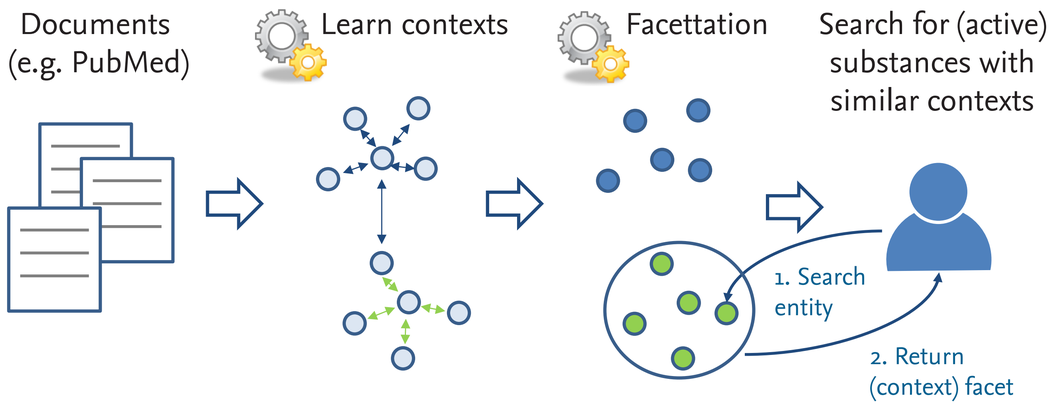
Innovative Search Tools

Development of Search Tools

Semantic facettation in pharmaceutical collections using deep learning for active substance contextualization

- Aim: Prediction of possible (active) substance effects
- Hypothesis: Similar effect = similar (deep learned) context
- Provides: Alternative access paths to literature beyond mere keyword or bibliographic search

Process Overview



Implementation in PubPharm

In PubPharm lists of semantically related substances, diseases and genes were generated when searching for a drug substance.

References:
Wawrzinek J, Balke W-T. Semantic Facettation in Pharmaceutical Collections Using Deep Learning for Active Substance Contextualization. In International Conference on Asian Digital Libraries. Springer, Cham, 2017; 41-53.
Keßler K, Krüger AT, Ghammad Y, Wulle S, Balke W-T, Stump K. PubPharm - Der Fachinformationsdienst Pharmazie. o-bib. Das offene Bibliotheksjournal 2016; 3(3):1–23.

www.pubpharm.de

DFG Deutsche Forschungsgemeinschaft