

## Agenda

### 1) Indexing and Interface

### 2) Text search

- i. **Natural language search**
  - Sorting: Relevance
  - Usage of different filters
- ii. **Search with Boolean operators**
  - Introduction to the Boolean operators
  - Databases
    - Medline + CAPlus
  - Citation alert
  - Citation Map
  - Exclude option
  - What are concepts?
  - Email results
  - Save/alerts

### 3) Advanced search capabilities

- Authors and Organization search

### 4) Substance search

- Substance name search
- Substances with a structure
- Trade name indexed substance
- Substances without a structure but describing a certain molecule

### 5) Structure search

- How to use CAS Draw and find structures
- More specific search by using advance search (properties and spectra)

### 6) Reaction search (optional)

- a. How to utilize the reaction search for different needs
  - Quick way to make reactions specific:
    - i. Atom mapping
    - ii. forming a new bond during the reaction, or breaking a bond
    - iii. defining reactants and reagents

### 7) CAS Analytical Methods

- Easy to use tool for precise analytical methods
- How to find information about LC-MS methodology
- Usage of the compare function for the most beneficial output

## 8) Optional Topics:

### a. Retrosynthesis

- How to use that tool?
- What are the benefits and what is the evidence of the pathways
- What are predicted reaction and how are they generated

### b. Biosequence searching

- **BLAST**
  - How to utilize BLAST search to find relevant patents
- **CDR**
  - What is CDR search and how it can help you to find important publications for antibodies
- **Motif search**
- Why do we need Motif search and how to perform a search

### c. CAS Formulus

- Why it is interesting?
  - Content: Pharma, Agriculture, Cosmetics
  - Regulatory information and supplier information
  - Formulations generator