# Creating a Search Strategy

## 1. Define your topic in a phrase or sentence.

Your second assignment, Literature Search, will consist of 2 parts: (1) an individual written technical report and, (2) a team oral presentation. The proposed topics for your search are morphine, ziconotide, or ibuprofen.

Your report should be based only on primary and secondary sources of scientific literature. Scientific report should include, for example: name and identifier, structure determination, properties, chemical synthesis/biosynthesis, patents, mechanism of action, etc.

## 2. Circle the keywords, or the main words, in your sentence.

## 3. Generate synonyms for the keywords in your topic. Get these from books, articles, or other sources of information, and also use word association to generate keywords.

- morphine—opiate
- ziconotide—intrathecal/intraspinal treatment, cancer pain, analgesic
- Ibuprofen—NSAID

## 4. Find additional keywords or synonyms such as persons, places or related thing

*(Check out [www.thesaurus.com](http://www.thesaurus.com) for ideas!)*

- Structure determination
- Properties
- Chemical synthesis / biosynthesis
- Mechanism of action
- Patents
- Dosage forms (solid, capsules, gelatin, liquid, intravenous, ophthalmic, etc.). Drug formulation. Delivery system.
- Drug characteristics: physicochemical, mechanical, biopharmaceutical  Pharmaceutical stability
- Release design (e.g., oral modified-release drug delivery system), release mechanisms  Physical parameters

## 5. List the assignment requirements (due date, types of sources, etc.)

The report should be supported by references using ACS citation style. The length of the written report should be limited to 3-5 pages (double-spaced). This page limit does not include the literature cited.

The font type must be 11 point Arial or Times New Roman. All margins of the paper must be one inch wide.

Please use ChemDoodle program for structures and reaction schemes. The instructions how to download the ChemDoodle software have been posted on Canvas.