# How PubMed Works: Automatic Term Mapping Handout

## Search Examples

1. Shin bone
2. backache
3. New England Journal of Medicine
4. Cell
5. Juan Gomez-Reino
6. Gomez-Reino J
7. pressure point
8. dog wheelchair
9. 0000-0001-8468-4398

## Exercises

1. What are the three translation tables that Automatic Term Mapping (ATM) tries to map your search terms to? Please list them in the order they are checked.
Answer:
2. What are the nine places that the Subject Translation table includes to find a match for your search term?
Answer:
3. What are the three journal title formats that ATM is programmed to recognize?
Answer:
4. The author index contains all author names going back to what year?
Answer:
5. What is the author-name format that NLM suggests using to run the most comprehensive author search?
Answer:
6. When did the full author-name index begin?
Answer:
7. What is the name of the PubMed feature that includes a list of phrases that are indexed in PubMed?
Answer:
8. What are three ways to bypass or turn off ATM?
Answer:

## Additional Resources

[PubMed [All Fields] Definition](https://pubmed.ncbi.nlm.nih.gov/help/#all)

[Author Name Disambiguation for PubMed (PMC article)](https://pmc.ncbi.nlm.nih.gov/articles/PMC5530597/)

[PubMed Computed Author Sort from NLM Technical Bulletin](https://www.nlm.nih.gov/pubs/techbull/mj12/mj12_pm_author_ranking.html)

[Learn more about the Unified Medical Language System (UMLS)](https://www.nlm.nih.gov/research/umls/knowledge_sources/metathesaurus/index.html)

[Signup for a free UMLS License](https://uts.nlm.nih.gov/uts/signup-login)

[UMLS Metathesaurus Vocabulary Documentation](https://www.nlm.nih.gov/research/umls/sourcereleasedocs/index.html)

[Best Match Sort](https://pubmed.ncbi.nlm.nih.gov/help/#best-match-algorithm)

[Proximity searching in PubMed](https://pubmed.ncbi.nlm.nih.gov/help/#proximity-searching)

[Proximity searching and Affiliation](https://www.nlm.nih.gov/pubs/techbull/ja23/ja23_pubmed_proximity_searching_affiliation.html)

[Open Research and Contributor ID (ORCID)](https://orcid.org)

[PubMed Trainer's Toolkit](https://learn.nlm.nih.gov/documentation/training-packets/T0022014P/): Includes slides and materials to repurpose for training end-users.

[Medical Subject Heading (MeSH) Changes and PubMed Searching On-Demand](https://www.nnlm.gov/training/class/medical-subject-heading-mesh-changes-and-pubmed-searching-demand-0)

## PubMed Tips:

**Retrieves all citations added on a specific date**

2025/03/06[crdt]

**Retrieves all citations added during a date range**

2025/03/01:2025/03/06[crdt]

**To include a specific term/topic of interest, use the string below then AND your search term:**

2025/03/06[crdt] or for a range, 2025/03/01:2025/03/06[crdt] AND *your term goes here*