

Lab sheet 1

NCBI overview and PubMed database

Objectives:

- To be familiar with NCBI interface.
- Using PubMed database to construct a search.

Use NCBI database to answer the following questions:

1. Retrieve all records of **cancer**. Which database returns the highest number of hits?
2. How many articles published on **Arabian camel**? What happen if you search only for **camel**?
3. Retrieve all records of **cancer** except those from **BRCA1 mutations**.
4. How many articles published about **osteoporosis related to vitamin D**?
5. How many articles published about **osteoporosis** and not related to **vitamin D**?
6. Find citations on **cancer** caused by **BRCA1** or **p53**.
7. How many articles published from **King Saud University** in **2019**?
8. Search for all articles about **epigenetics of Alzheimer's disease**. Sort the articles by **Most recent**.
9. Search for a **review** article about **Alzheimer's disease molecular basis**.
10. How many articles published by *the journal of Alzheimer's disease*?
11. Search for all published articles written by **Arjumand Warsy**.
12. There is an article in *the New England Journal of Medicine* on Williams-Beuren syndrome written by Dr. Barbara Pober. Construct a **specific search** on PubMed to find this article.
13. Find your PubMed **search history**.
14. How many texts published on **human oxytocin**?
15. Social anxiety is a form of anxiety characterized by continuous fear of one or more social or performance situations. Although multiple treatment modalities exist for social anxiety, they are effective for only 60% to 70% of patients. Could it be possible that oxytocin can be a potential therapeutic option for individuals with social anxiety?? Search **PubMed** for evidence.
16. Send one of the articles to the **clipboard**. Remove the article from the **clipboard**.
17. Copy the **citation** of an article.

18. Send the article to **citation manager** program.
19. Send an article to your **e-mail**.
20. Find **PMID** of an article.
21. How many free texts published on **oxytocin**?
22. Search for a **PMC** article about **hepatitis** and download it as pdf. Save the citation as APA file.
23. Find two **similar articles** to the previous article.
24. Using **MeSH** term, search for immunology in cancer.

✓ **Exercise:**

In a Word document, answer the following:

- ✓ How many free articles published on human BACE1.
- ✓ How many texts published on ovarian cancer caused by p53 mutations in 2019.
- ✓ Using MeSH term, search for genetics of osteoporosis.
- ✓ How many articles published by *PloS one*?
- ✓ Search for a PMC article about diabetes mellitus:
 - ✓ What is the PMCID?
 - ✓ Download as pdf.
 - ✓ Save the citation of the article.